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MEMORANDUM

DATE: April 29, 2025

TO: Danny Morris, Development Director, Extra Space Storage

FROM: Ryan Bensley, Principal, LSA

SUBJECT: Class 32 Categorical Exemption for the Proposed Extra Space Storage 4th Street Project in Santa Ana, California

LSA is pleased to submit this memorandum in support of a Class 32 Categorical Exemption (CE) under the California Environmental Quality Act (CEQA) for the proposed Extra Space Storage 4th Street Project (project) in Santa Ana, California. This memorandum includes an introduction, project description, and evaluation of the project's consistency with the requirements of a Class 32 CE.

As discussed in this memorandum, the project would be exempt from detailed CEQA review under *State CEQA Guidelines* Section 15332. Under Section 15332, a project characterized as infill development qualifies for a Class 32 CE if the project (1) is consistent with the general plan and zoning ordinance; (2) occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses; (3) is located on a site that does not have value as habitat for endangered, rare, or threatened species; (4) would not result in any significant impacts relating to traffic, noise, air quality, or water quality; and (5) is adequately served by all required utilities and services. Additionally, *State CEQA Guidelines* Section 15300.2 lists six exceptions to a categorical exemption related to location, cumulative impact, significant effect, scenic highways, hazardous waste sites, and historical resources.

PROJECT DESCRIPTION

Project Site

As shown in **Figure 1**, Regional Location (all figures provided in **Attachment A**), the project site is at 1030 East 4th Street in Santa Ana. The 3.48-acre project site is east of Standard Avenue between East 1st and East 4th Street in the northeastern part of the city. The project site consists of Assessor's Parcel Number 398-461-18. The project site is currently developed with 52,983 square feet (sf) of self-storage uses (eight one-story buildings), including a 1,841 sf one-story office building, an Extra Space Storage facility sign, and landscaping adjacent to 4th Street. The project site is generally flat in elevation. A single driveway along 4th Street currently provides vehicular access to the project site. An emergency access only gate is also located on Standard Avenue.

The project site serves as a buffer between residential and industrial uses. The project site is immediately bounded to the north by 4th Street, to the southeast by industrial uses, and to the northwest by multifamily residential uses. Regional access to the project site is provided by East 4th

and East 1st Street, which are to the north and south of the project site, respectively. Interstate 5 runs 0.7 mile east of the project site. East 4th Street provides local access to the project site.

Proposed Project

The proposed project would partially demolish two self-storage buildings: 753 sf of the easternmost building and 7,796 sf of the building in the center of the project site. The proposed project would also fully demolish the 1,841 sf office along 4th Street and a 6,294 sf self-storage building on the northwestern corner of the project site. Proposed project demolition would include the existing manager's apartment on site. All other existing uses on site, including the other self-storage buildings (36,299 sf in total) would remain. The proposed project would replace the demolished buildings with a three story, 91,558 sf, self-storage building that includes a manager's apartment and rental office. Additionally, the proposed project would provide 15 parking stalls. Under post-development conditions, the total self-storage square footage on site (including the existing 36,299 sf of self-storage uses to remain) would be 127,857 sf.

Figure 2, Conceptual Site Plan, provides an overview of the proposed site plan, including the locations of the existing buildings to remain, the proposed building and parking stalls, vehicular access, landscaping, and a trash enclosure. The trash enclosure would be accessed from the ground floor and would be in the southwest corner of the proposed building. No changes to the office hours of operation or storage gate hours are proposed. Office hours are currently Monday through Saturday, from 9:30 a.m. to 6:00 p.m. (closed on Sundays). Customer access hours are currently Monday through Sunday, from 6:00 a.m. to 8:00 p.m.

Zoning and General Plan Land Use Designations

According to the City of Santa Ana's (City) Zoning map, the project site is currently zoned for Specific Development-84 (SD-84) and Heavy Industrial (M2). Per SD- 84[1], the Transit Zoning Code, the project site is within the Industrial Overlay (I-OZ) Zone, which allows for land use activity and development permitted by existing M1 and M2 zoning to continue until the property owner chooses to apply a new zone as identified in the Transit Zoning Code. Properties within the I-OZ zone are required to comply with City Municipal Code Section 41, Article III, Divisions 18 and 19, as applicable. Per City Municipal Code Sections 41-489 and 41-427.5, self-storage uses are permitted on parcels zoned Light Industrial (M1) and M2 with approval of a Conditional Use Permit (CUP).

In 2002, the City introduced a CUP requirement for mini storage uses located within 500 feet of an arterial street. The existing self-storage facility was constructed prior to 2002 and does not currently operate under a CUP. With approval of the CUP, which would cover the entire property, the proposed project would be consistent with the City's zoning code and the I-OZ and M2 zoning designations.

Furthermore, according to the City's General Plan, the project site is designated for Urban Neighborhood – Medium – Low (UN-30) uses. The UN-30 designation allows for uses including

[1] City of Santa Ana. 2019a. Transit Zoning Code. Website: https://www.santa-ana.org/transit-zoning-code-documents/ (accessed January 28, 2025).

medium- and medium-high density apartments, townhomes, garden- or motor-court homes, and neighborhood-serving commercial uses.

For a detailed discussion regarding the proposed project's consistency with the General Plan and Zoning Code, refer to Criteria 1 for the Class 32 CE, below.

Site Access and Parking

The one existing driveway along 4th Street would continue to provide vehicular access to the project site. As shown on **Figure 2**, the proposed project would provide a total of 15 new parking stalls, including 4 Americans with Disabilities Act-compliant stalls, 4 electric-vehicle-capable stalls, and 2 manager's apartment stalls. In accordance with Section 41-1394 of the City's Municipal Code, the proposed 17-parking-space supply, including the 2 existing spaces, would provide adequate parking to accommodate the proposed project's parking demand.

Building Design

The proposed project would develop a 91,558 sf self-storage building, including 89,731 sf of self-storage area, a 1,147 sf rental office, and a 680 sf manager apartment. Under post-development conditions, the total new building square footage on site (including the existing 36,299 sf of self-storage uses to remain) would be 127,857sf. The proposed building would consist of three stories and reach a maximum height of approximately 35 feet (ft).

The existing office would be demolished and replaced with a 1,147 sf office in the northeastern corner of the proposed building, adjacent to 4th Street. As noted above, the office hours would remain the same as existing conditions. The proposed project would not require any additional employees on site compared to existing operations.

Infrastructure Improvements

As part of the project, new electricity, water, telephone, and sewer infrastructure would be constructed within the project site to connect the proposed building to the existing main lines. The proposed building would be connected to the existing sewer and water services on the site. Additionally, the existing on-site 8-inch fire water line would be rerouted around the proposed building. New on-site storm drain lines would be constructed on the project site and would connect to a new underground retention system that would be south of the proposed building.

Construction and Grading

Development of the proposed project would require partial demolition of two self-storage buildings (a total of 8,549 sf) and full demolition of one self-storage building and the existing office (a total of 8,135 sf). In addition, the proposed project would require excavation and grading of the site, delivery of materials, construction of the underground retention basin, and construction of the building area and proposed parking stalls. Construction of the proposed project is anticipated to commence in November 2025 and extend over a period of approximately 14 months. It is anticipated that construction workers would make a total of 21 trips per day during construction activities.

Based on the preliminary grading plans, the proposed project would require approximately 280 cubic yards (cy) of cut and 720 cy of fill, resulting in a total of 440 cy to be imported to the site. Demolition, grading, and building activities would involve the use of standard earthmoving equipment such as large excavators, cranes, and other related equipment.

Construction of the proposed project would require a maximum excavation depth of 8.5 feet.

Discretionary Actions, Permits, and Other Approvals

In accordance with Sections 15050 and 15367 of the *State CEQA Guidelines*, the City is the designated Lead Agency for the proposed project and has principal authority and jurisdiction for California Environmental Quality Act (CEQA) actions and project approval. Responsible Agencies are those agencies that have jurisdiction or authority over one or more aspects associated with the development of a proposed project and/or mitigation. Trustee Agencies are State agencies that have jurisdiction by law over natural resources affected by a proposed project.

The discretionary actions the City must consider as a part of the proposed project include:

- Approval of the use of a Class 32 Categorical Exemption
- Site Plan Review
- Approval of the CUP

CALIFORNIA ENVIRONMENTAL QUALITY ACT, SECTION 15332, CLASS 32 INFILL DEVELOPMENT EXEMPTION

Under *State CEQA Guidelines* Section 15332, a project characterized as infill development qualifies for a Class 32 CE under CEQA if the project (1) is consistent with the general plan and zoning ordinance; (2) occurs within city limits on a project site of no more than 5 acres substantially surrounded by urban uses; (3) is located on a site that does not have value as habitat for endangered, rare, or threatened species; (4) would not result in any significant impacts relating to traffic, noise, air quality, or water quality; and (5) is adequately served by all required utilities and services.

(1) The proposed project is consistent with the General Plan and Zoning Ordinance.

Implementation of the proposed project would not require amendments to an adopted planning document. The City's General Plan land use designation for the project site is Urban Neighborhood – Medium – Low (UN-30) uses. The UN-30 designation allows for uses including medium and medium-high density apartments, townhomes, garden- or motor-court homes, and neighborhood-serving commercial uses such as self-storage facilities. **Table A**, below, shows the proposed project's consistency with relevant policies in the City's General Plan.

Table A: General Plan Consistency Analysis

Policies	Consistency Analysis
Conservation Element	
Goal CN-1: Protect air resources, improve regional and local air quality, and minimize the impacts of climate change.	
Policy CN-1.4: Support new development that meets or exceeds standards for energy-efficient building design and site planning.	**Consistent.** The proposed project would develop a new self-storage building in compliance with the Building Energy Efficiency Standards, which include requirements in the Energy Code (Title 24, Part 6) and voluntary energy efficiency provisions in CALGreen (Title 24, Part 11). The proposed building would be heated when the temperature reaches approximately 55 degrees and cooled when the temperature reaches approximately 85 degrees, resulting in minimal use of the heating, ventilation, and air conditioning system. Additionally, motion detector lights would be used in self-storage areas to ensure lights are off while those areas are not in use. Therefore, the proposed project would meet standards for energy-efficient building design and site planning and would be consistent with **General Plan Policy CN-1.4.**
Policy CN-1.8: Promote use of alternative modes of transportation in the City of Santa Ana, including pedestrian, bicycling, public transportation, car sharing programs, and emerging technologies.	**Consistent.** The proposed project would include the development of four bicycle parking spaces and four electric-vehicle-capable parking spaces on-site. The proposed project would promote the use of alternative modes of transportation and emerging technologies including bicycling and using electric vehicles. Therefore, the proposed project would be consistent with **General Plan Policy CN-1.8.**
Policy CN-1.12: Encourage the use of low or zero-emission vehicles, bicycles, nonmotorized vehicles, and car-sharing programs by supporting new and existing development that includes sustainable infrastructure and strategies such as vehicle charging stations, drop-off areas for ride-sharing services, secure bicycle parking, and transportation demand management programs.	**Consistent.** As discussed above, the proposed project would include the development of four bicycle parking spaces and four electric-vehicle-capable parking spaces on-site. The proposed project would encourage the use of low- or zero-emission vehicles and bicycles and would be consistent with **General Plan Policy CN-1.12.**
Land Use Element	
Goal LU-2: Provide a balance of land uses that meet Santa Ana's diverse needs.	
Policy LU-2.6: Promote rehabilitation of properties and encourage increased levels of capital investment to create a safe and attractive environment.	**Consistent.** The proposed project would partially demolish two existing self-storage buildings and fully demolish one self-storage building and office building on-site. One new self-storage building would be constructed in place of the demolished buildings and would provide an upgraded building and amenities. Therefore, the proposed project would contribute to the rehabilitation of the project site and would be consistent with **General Plan Policy LU-2.6.**
Goal LU-3: Preserve and improve the character and integrity of existing neighborhoods and districts.	
Policy LU-3.4: Ensure that the scale and massing of new development is compatible and harmonious with the surrounding built environment.	**Consistent.** Land uses surrounding the project site include a mixture of industrial and residential uses. The proposed project would develop one self-storage building on a site that currently is developed with self-storage uses, which would be consistent with the character of the surrounding area. Although the proposed 91,558 sf self-storage building would be slightly taller than the other self-storage buildings on site, the building would be consistent with the scale of other buildings in the surrounding area, which are also 2 to 3 stories. Additionally, the proposed self-storage uses would continue to serve as a buffer between the industrial uses to the east and the residential uses to the west. Therefore, the proposed project would be consistent with **General Plan Policy LU-3.4.**

Source: Santa Ana General Plan (City of Santa Ana, 2023).
CALGreen = California Green Building Standards Code
City = City of Santa Ana
sf = square foot/feet

The project site is zoned for Specific Development-84 (SD-84) and Heavy Industrial (M2). Per the City's Transit Zoning Code[2], the project site is within the Industrial Overlay (I-OZ) Zone, which allows for land use activities and development permitted by the existing M1 and M2 zoning to continue until the property owner chooses to apply a new zone, as identified in the Transit Zoning Code. Properties within the I-OZ zone are required to comply with City Municipal Code Section 41, Article III, Divisions 18 and 19, as applicable. Per City Municipal Code Sections 41-489 and 41-427.5, self-storage uses are permitted on parcels zoned Light Industrial (M1) and M2with approval of a CUP.

As stated above, the proposed project is consistent with the applicable zones subject to approval of a CUP. The City's design review committee would condition the project design to be consistent with the site planning criteria and site development standards for the I-OZ and M2 zones, pursuant to the Transit Zoning Code and City Municipal Code. For example, Section 41-1394 of the City's Municipal Code requires that, for the first 900 storage units, 1 parking space be provided for each 150 units and for storage units in excess of 900, 1 parking space be provided for each 300 units. Additionally, two spaces are required for any on-site management unit. Further, Section 41-1342 requires three spaces be provided for each 1,000 square feet of gross floor area of office use. The proposed project would provide approximately 836 storage units, an on-site management unit, and a 1,147 sf office. Pursuant to the City's Municipal Code, the proposed project would be required to provide 11 parking spaces and the project proposes to provide 15 new parking spaces. Therefore, the proposed 17-parking-space supply, including the 2 existing parking spaces, would provide adequate parking to accommodate the proposed project's parking demand and the proposed project would be consistent with Section 41-1394 of the City Municipal Code. With approval of the CUP, the proposed project would be consistent with the City's zoning code and the I-OZ and M2 zoning designations.

(2) The proposed project would occur within city limits on a project site of no more than 5 acres and would be substantially surrounded by urban uses.

The project site at 1030 East 4th Street in Santa Ana is 3.48 acres, smaller than 5 acres. In its existing condition, the project site contains self-storage facilities, paved parking areas, and perimeter landscaping. The project site is surrounded by existing urban uses, including industrial and residential uses. The project site is immediately bounded to the north by 4th Street, to the southeast by industrial uses, and to the northwest by multifamily residential uses. Therefore, the proposed project would be within city limits on a project site of no more than 5 acres and is substantially surrounded by urban uses.

(3) The proposed project would be located on a site that does not have value as habitat for endangered, rare, or threatened species.

As shown on **Figure 2**, the project site includes 52,983 sf of existing self-storage uses (eight one-story buildings), which includes one rental office, landscaping adjacent to 4th Street, and an Extra Space Storage facility sign. The existing landscaped areas consisting of ornamental grass are

[2] City of Santa Ana. 2019a. Transit Zoning Code. Website: https://www.santa-ana.org/documents/table-of-contents-organization/ (accessed April 29, 2024).

along the northern perimeter of the project site along 4th Street. The site is surrounded on all sides by urban development.

The project site is currently developed; therefore, no special-status species are expected to occur on the project site in the existing condition because of the lack of suitable habitat. There are no trees on the project site; therefore, the proposed project would not include the removal and replacement of on-site trees. Similarly, the proposed project would not substantially reduce locally common wildlife populations, because no suitable habitat exists on site. The proposed project would not significantly affect sensitive biological resources given the amount of previous development that has taken place on the project site and in the vicinity. Project construction and operation would have no impacts either directly or through habitat modification to any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the United States Fish and Wildlife Service. Therefore, the project site does not have value as habitat for endangered, rare, or threatened species.

The proposed project, like all projects, would be subject to the provisions of the Migratory Bird Treaty Act (MBTA), which prohibits disturbing or destroying active nests, and California Fish and Game Code Section 3503, which protects nests and eggs. With compliance with existing regulations, potential impacts to nesting birds and trees would be avoided.

(4) The proposed project would not result in any significant impacts relating to traffic, noise, air quality, or water quality.

Traffic. A *Trip Generation and Vehicle Miles Traveled (VMT) Memorandum*[3] (**Attachment B**) was prepared to identify the trip generation impacts associated with the proposed project. The trip generation of the proposed project was calculated using trip rates from the Institute of Transportation Engineers' Trip Generation Manual, 11th Edition (2021) for Land Use Code 151 (Mini-Warehouse)[4]. **Table B**, below, summarizes the proposed project trip generation.

Table B: Project Trip Generation Summary

Land Use	Size	Unit	ADT	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Trip Rates									
Mini-Warehouse (Self-Storage)[1]		tsf	1.45	0.05	0.04	0.09	0.07	0.08	0.15
Existing Trip Generation									
Self-Storage	52.983	tsf	77	3	2	5	4	4	8
Project Trip Generation									
Self-Storage	127.857	tsf	185	7	5	12	9	10	19
Net Trip Generation (Project - Existing)			**108**	**4**	**3**	**7**	**5**	**6**	**11**

[3] LSA Associates, Inc. 2025a. *Trip Generation and Vehicle Miles Traveled (VMT) Memorandum*, Extra Space Storage 4th Street Project.

[4] Institute of Transportation Engineers (ITE). 2021. Trip Generation Manual, 11th Edition. Website: https://www.ite.org/ITEORG/assets/File/ITEJ%20Published/2021/ITE_ITE_October2021.pdf (accessed May 30, 2024).

[1] Trip rates referenced from the Institute of Transportation Engineers (ITE) *Trip Generation* Manual, 11th Edition (2021).
Land Use Code 151 – Mini-Warehouse
ADT = average daily trips
tsf = thousand square feet

As shown in **Table B**, the proposed project would generate a total of 185 daily trips, including 12 trips in the a.m. peak hour and 19 trips in the p.m. peak hour. In comparison to the trip generation for the existing self-storage uses on the project site, the net trip generation of the proposed project would be 108 daily trips, including 7 trips in the a.m. peak hour and 11 trips in the p.m. peak hour.

The City of Santa Ana Traffic Impact Study Guidelines[5] (City TIS Guidelines) provide VMT screening criteria for projects that are presumed to have less than significant impacts to the local transportation system and would therefore not be required to conduct a VMT analysis. Pursuant to the Section 2.1 (Project Screening) of the City TIS Guidelines, projects that generate fewer than 110 net daily trips have the potential to reduce VMT. This is consistent with the screening threshold for small projects identified in the Office of Planning and Research (OPR)[6] Technical Advisory on Evaluating Transportation Impacts in CEQA.[7] As shown in **Table B**, the project is anticipated to generate a total net difference of 108 daily trips, which is below the 110-net-daily-trip threshold established in the City TIS Guidelines and the screening criteria for small projects from the OPR Technical Advisory. Therefore, the proposed project is screened out from a VMT analysis and would result in a less than significant transportation impact.

Additionally, per the City TIS Guidelines, projects within Transit Priority Areas (TPAs) may be presumed to have a less than significant transportation impact. Based on Appendix A (Santa Ana Transit Priority Areas) of the City TIS Guidelines, the proposed project is within a TPA (in a 0.5-mile radius around the existing Santa Ana Regional Transportation Center). This particularly applies to employees and the manager on site. Therefore, given the proposed project's location within a TPA, the proposed project is screened out from a VMT analysis and would result in a less than significant transportation impact.

The project site is designated for Urban Neighborhood – Medium – Low (UN-30) uses per the City's General Plan. The proposed land use (self-storage use) is the same as the existing land use on site and it would continue to be consistent with the City's General Plan designation for the project site, as well as the Regional Transportation Plan/Sustainable Communities Strategy. In addition, the proposed project intends to provide service to, but not limited to, the local community. As mentioned above, the proposed project would result in an increase of 74,874 sf of self-storage use from existing conditions, which would increase its service capacity. As such,

[5] City of Santa Ana. 2019b. City of Santa Ana Traffic Impact Study Guidelines. Website: https://www.santa-ana.org/documents/traffic-vmt-impact-study-guidelines/ (accessed May 30, 2024).

[6] On July 1, 2024, the Office of Planning and Research (OPR) was renamed the Office of Land Use and Climate Innovation (LCI).

[7] OPR. 2018. Technical Advisory on Evaluating Transportation Impacts in CEQA. Website: https://lci.ca.gov/docs/20190122-743_Technical_Advisory.pdf (accessed February 10, 2025).

the proposed project may offer more opportunities for residents and employees to obtain the service closer to home and work, potentially reducing VMT.

Pedestrian facilities (sidewalks) run along 4th Street; however, no bicycle lanes exist along this street. The proposed project would not result in a significant increase in daily vehicle trips and would not alter existing pedestrian facilities during construction or operation. Additionally, the proposed project would not result in any physical changes to the surrounding roadway network, and therefore would not preclude the implementation of future bicycle facilities. Therefore, the proposed project would be consistent with the current use of the project site and would not conflict with a plan, ordinance, or policy addressing the circulation system.

The one existing driveway along 4th Street would continue to provide vehicular access to the project site. An emergency access only gate is provided on Standard Avenue and the proposed project would provide a minimum 20-foot-wide, paved, "fire lane" access roadway through the project site. Vehicular traffic to and from the project site would use the existing network of regional and local roadways that currently serve the area surrounding the project site. Additionally, design of the proposed project would be subject to the standards set forth in the City's Municipal Code and review and approval by the City. Construction of the proposed project would not result in temporary lane closures on surrounding roadways. Based on the temporary nature of the construction activities and trips and the low trip generation for daily operations, project vehicles would not create operational deficiencies or related hazards to the public roadways when accessing the project site.

Because the proposed project would generate a nominal number of new peak-hour trips, fewer than 110 net daily trips, and is within a TPA, the proposed project would not require a traffic study and is screened out from a VMT analysis, per the City TIS Guidelines. Therefore, the proposed project would have a less than significant impact on transportation.

Noise.

***Existing Noise Environment*.** The primary existing noise sources in the project area are transportation facilities including East 4th Street, East 1st Street, and the railway east of the project site. The project site is just outside of the 65 A-weighted decibel [dBA]) Community Noise Equivalent Level noise contour, based on the existing and future General Plan buildout noise contours in the City's General Plan Noise Element.

Construction Noise. Project construction would result in short-term noise and vibration. Maximum construction noise would be short-term, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of various types of construction noise and vibration would vary from 1 day to several weeks, depending on the phase of construction. The following describes the levels and types of impacts that may occur during construction.

The first type of short-term construction noise would result from transport of construction equipment and materials to the project site and construction worker commutes. These transportation activities would incrementally raise noise levels on roadways leading to the

site. The pieces of construction equipment would move on-site, remain for the duration of each construction phase, and would not add to the daily traffic volume in the project vicinity. Although there would be a relatively high single-event noise exposure potential causing intermittent noise nuisance (passing trucks at 50 feet would generate up to a maximum of 84 dBA), the effect on longer-term ambient noise levels would be small because the number of daily construction-related vehicle trips is small compared to existing daily traffic volume on 4th Street. The grading phase would generate the most trips out of all of the construction phases, at 34 trips per day based on the California Emissions Estimator Model (CalEEMod) (Version 2022.1) results contained in Attachment B of the *Air Quality Technical Memorandum* (**Attachment C**)[8]. Fourth Street would be used to access the project site and has an estimated existing average daily trips (ADT) of 12,016 near the project site based on City's GIS Open Data[9] for 2015. Based on the information above, construction-related traffic would increase noise by up to 0.01 dBA. A noise level increase of less than 3 dBA would not be perceptible to the human ear in an outdoor environment. Therefore, short-term construction-related impacts associated with worker commutes and transport of construction equipment and material to the project site would be less than significant. No mitigation measures are required.

The second type of short-term noise impact is related to noise generated during demolition, site preparation, grading, building construction, paving, and architectural coating on the project site. Construction is undertaken in discrete steps, each of which has its own mix of equipment and its own noise characteristics. These various sequential phases would change the character of the noise generated on the project site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. **Table C** lists the maximum noise levels for typical construction equipment based on a distance of 50 feet between the construction equipment and a noise receptor.

Table C: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor[1] (%)	Maximum Noise Level (L_{max}) at 50 feet[2]
Backhoe	40	80
Compactor (ground)	20	80
Compressor	40	80
Crane	16	85
Dozer	40	85
Dump Truck	40	84
Excavator	40	85
Flatbed Truck	40	84
Man Lift (Forklift)	20	85
Front-End Loader	40	80
Generator	50	82

[8] LSA Associates, Inc. 2024b. *Air Quality Technical Memorandum*, Extra Space Storage 4th Street Project.

[9] City of Santa Ana. 2018. GIS Open Data, Traffic Volumes. Website: https://gis-santa-ana.opendata.arcgis.com/datasets/927f0b948fcf400eaf1c13d35239a7b1/explore (accessed June 2024).

Table C: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor[1] (%)	Maximum Noise Level (L_{max}) at 50 feet[2]
Generator (<25KVA, VMS signs)	50	70
Grader	40	85
Jackhammer	20	85
Pavement Scarifier	20	85
Paver	50	85
Pickup Truck	40	55
Pneumatic Tools	50	85
Pump	50	77
Rock Drill	20	85
Roller	20	85
Scraper	40	85
Tractor	40	84
Welder/Torch	40	73

Source: Table 9.1, FHWA Highway Construction Noise Handbook (FHWA 2006).
Note: The noise levels reported in this table are rounded to the nearest whole number.
[1] Usage factor is the percentage of time during a construction noise operation that a piece of construction equipment is operating at full power.
[2] Maximum noise levels were developed based on Specification 721.560 from the CA/T program to be consistent with the City of Boston, Massachusetts, Noise Code for the "Big Dig" project.
CA/T = Central Artery/Tunnel
FHWA = Federal Highway Administration
L_{max} = maximum instantaneous noise level

Table D lists the anticipated construction equipment for each construction phase based on the CalEEMod (Version 2022.1) results contained in Attachment B of the *Air Quality Technical Memorandum* (**Attachment C**)[10]. **Table D** shows the combined noise level at 50 feet from all of the equipment in each phase and the equivalent continuous sound level (L_{eq}) for each equipment at 50 feet based on the quantity, the reference instantaneous maximum (L_{max}) noise level at 50 feet, and the acoustical usage factor. As shown in **Table D**, construction noise levels would reach up to 87.1 L_{eq} at a distance of 50 feet.

Table D: Summary of Construction Phase, Equipment, and Noise Levels

Construction Phase	Construction Equipment	Quantity	Reference Noise Level at 50 ft (dBA L_{max})	Acoustical Usage Factor[1] (%)	Noise Level at 50 ft (dBA L_{eq})	Combined Noise Level at 50 ft[2] (dBA L_{eq})
Demolition	Concrete Saw	1	90	20	83.0	86.5
	Dozer	1	85	40	81.0	
	Front End Loader	3	80	40	80.8	
Site Preparation	Grader	1	85	40	81.0	84.7
	Scraper	1	85	40	81.0	
	Front End Loader	1	80	40	76.0	
Grading	Grader	1	85	40	81.0	85.2
	Dozer	1	85	40	81.0	
	Front End Loader	2	80	40	79.0	
Building Construction	Crane	1	85	16	77.0	85.1

[10] LSA Associates, Inc. 2024b. *Air Quality Technical Memorandum*, Extra Space Storage 4th Street Project.

Table D: Summary of Construction Phase, Equipment, and Noise Levels

Construction Phase	Construction Equipment	Quantity	Reference Noise Level at 50 ft (dBA L_{max})	Acoustical Usage Factor[1] (%)	Noise Level at 50 ft (dBA L_{eq})	Combined Noise Level at 50 ft[2] (dBA L_{eq})
	Man Lift	2	85	20	81.0	
	Generator	1	82	50	79.0	
	Front End Loader	1	80	40	76.0	
	Welder/Torch	3	73	40	73.8	
Paving	Concrete Mixer Truck	1	85	40	81.0	87.1
	Paver	1	85	50	82.0	
	Pavement Scarafier	1	85	20	78.0	
	Roller	2	85	20	81.0	
	Front End Loader	1	80	40	76.0	
Architectural Coating	Compressor (air)	1	80	40	76.0	76.0

Source: Compiled by LSA (2024).

[1] The acoustical usage factor is the percentage of time during a construction noise operation that a piece of construction equipment operates at full power.

[2] The combined noise level is calculated using the following formula: SPL = 10*log(10^(L_1/10) + 10^(L_2/10) … + 10^(L_n/10)). L_1, L_2,…L_n are the individual noise levels.

dBA = A-weighted decibels L_{eq} = equivalent continuous sound level SPL = sound pressure level
ft = foot/feet L_{max} = maximum instantaneous noise level

The closest residential property line is approximately 80 ft from the center of the project construction boundary. At a distance of 80 ft, noise would be attenuated by 4.1 dBA compared to the distance of 50 ft. Based on the above, the closest residential property line may be subject to short-term construction noise reaching 83 dBA L_{eq}[11] generated by construction activities in the project area. Although the project construction-related short-term noise levels have the potential to be higher than the ambient noise in the project vicinity, construction noise would cease once the project construction is completed. The proposed project would be constructed in compliance with the requirements of the City's Noise Ordinance, which prohibits construction activities before 7:00 a.m. or after 8:00 p.m. on Mondays through Saturdays and any time on Sundays and federal holidays. With incorporation of best business practices for noise reduction, the overall noise levels generated would be minimized, and construction noise impacts would be less than significant. No mitigation measures are required.

Construction Vibration. **Table E** provides reference peak particle velocity (PPV) values and vibration levels (in terms of vibration velocity in decibels) from typical construction vibration sources at 25 feet. Although there is currently limited information regarding vibration source levels specific to the equipment that would be used for the project, to provide a comparison of vibration levels expected for a project of this size, a large bulldozer would

[11] The noise level at 80 ft is calculated using the following formula: dBA_2= dBA_1 - 20*log(D_2/D_1). Where dBA_1 is the noise level at distance D_1 and dBA_2 is the noise level at distance D_2. The calculated noise level at 80 ft is also 87.1 dBA – 4.1 dBA = 83.0 dBA.

generate 0.089 PPV in inches per second (in/sec) of ground-borne vibration when measured at 25 feet, based on the

Table E: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference PPV/L_V at 25 ft	
	PPV (in/sec)	L_V (VdB)[1]
Hoe Ram	0.089	87
Large Bulldozer	0.089	87
Caisson Drilling	0.089	87
Loaded Trucks	0.076	86
Jackhammer	0.035	79
Small Bulldozer	0.003	58

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
[1] RMS VdB re 1 µin/sec.
µin/sec = micro-inch(es) per second
ft = foot/feet
FTA = Federal Transit Administration
in/sec = inches per second
L_V = velocity in decibels
PPV = peak particle velocity
RMS = root-mean-square
VdB = vibration velocity in decibels

Federal Transit Administration's (FTA) *Transit Noise and Vibration Impact Assessment Manual* (2018). It would take a minimum of 0.2 PPV (in/sec) to cause any potential building damage to non-engineered timber and masonry buildings.

The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project construction boundary (assuming the construction equipment would only be used at or near the project setback line). The formula for vibration transmission is provided below:

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

The closest structures to the project construction activities are the existing off-site residential buildings to the west, which are approximately 20 ft from the project's construction boundary, and on-site storage buildings to the east and south (Buildings "C", "D", and "E"), which are approximately 20 feet from the project's construction boundary. Using the reference data from **Table E** and the equation above, a large bulldozer would generate a ground-borne vibration level of up to 0.124 PPV (in/sec) at the closest structures from the project construction boundary. This vibration level would not result in building damage, because the existing buildings are likely to have been constructed equivalent to or better than non-engineered timber and masonry and vibration levels would not exceed the FTA vibration damage threshold of 0.20 PPV (in/sec). Other building structures that surround the project site would experience lower vibration levels because they are farther away and are likely to have been constructed equivalent to or better than non-engineered timber and masonry. Therefore, construction vibration impacts during project construction would be less than significant. No mitigation measures are required.

Operational Traffic Noise Assessment. The proposed project is estimated to generate a net new ADT of 108 based on the proposed increase in square footage of the self-storage facilities and the *Trip Generation and VMT Memorandum* [12] (**Attachment B**). The ADT volumes along East 4th Street and East 1st Street in the project vicinity are 12,016 and 44,864, respectively, and were obtained from the City of Santa Ana's GIS Open Data[13] for 2015. Based on the information above, the project would increase traffic noise by up to 0.04 dBA. This noise level increase of less than 3 dBA would not be perceptible to the human ear in an outdoor environment. Therefore, traffic noise impacts from project-related traffic on off-site sensitive receptors would be less than significant.

Stationary Noise Sources. It is expected that the proposed project would install heating, ventilation, and air conditioning equipment. It is expected that the equipment installed at the rooftop would be shielded and comply with the City's noise standards specified in Section 18-312. Through shielding and compliance with the City's noise standards, the project would result in less than significant impacts related to stationary noise sources. Impacts to the residential buildings to the west would be less than significant.

Air Quality. The *Air Quality Technical Memorandum* (Air Quality Analysis)[14] prepared for the proposed project is provided in **Attachment C**.

The project site is in Orange County and is within the jurisdiction of the South Coast Air Quality Management District (SCAQMD), which regulates air quality in the South Coast Air Basin (Basin). LSA used the California Emissions Estimator Model (CalEEMod) to calculate emissions from construction and operation of the proposed project.

Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate matter emissions (i.e., fugitive dust) generated by demolition, grading, building construction, paving, and other activities. Emissions from construction equipment are also anticipated and would include carbon monoxide (CO), nitrogen oxides (NO_X), volatile organic compounds (VOCs), directly emitted particulate matter less than 2.5 microns in size ($PM_{2.5}$) or particulate matter less than 10 microns in size (PM_{10}), and toxic air contaminants such as diesel exhaust particulate matter.

Project construction activities would include demolition, grading, site preparation, building construction, architectural coating, and paving activities. Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries.

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12 LSA Associates, Inc. 2024a. *Trip Generation and Vehicle Miles Traveled (VMT) Memorandum*, Extra Space Storage 4th Street Project.

13 City of Santa Ana. 2018. GIS Open Data, Traffic Volumes. Website: https://gis-santa-ana.opendata.arcgis.com/datasets/927f0b948fcf400eaf1c13d35239a7b1/explore (accessed June 2024).

14 LSA Associates, Inc. 2025b. *Air Quality Technical Memorandum*, Extra Space Storage 4th Street Project.

PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and amount of operating equipment. Larger dust particles would settle near the source, whereas fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. SCAQMD has established Rule 403: Fugitive Dust, which would require the applicant to implement measures that would reduce the amount of particulate matter generated during the construction period. The Rule 403 measures that were incorporated in this analysis include:

- Water active sites at least twice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour or less.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur oxides (SO_X), nitrogen oxides (NO_x), VOCs, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site. **Table F** summarizes the construction emissions estimated for the project using CalEEMod.

Table F: Short-Term Regional Construction Emissions

Construction Phase	Maximum Daily Regional Pollutant Emissions (lbs/day)							
	VOCs	NO_X	CO	SO_X	Fugitive PM_{10}	Exhaust PM_{10}	Fugitive $PM_{2.5}$	Exhaust $PM_{2.5}$
Demolition	0.4	5.2	18.9	<0.1	1.0	0.1	0.2	0.1
Site Preparation	0.7	3.4	36.0	0.1	8.5	0.1	4.1	0.1
Grading	0.3	2.2	16.0	<0.1	3.0	0.1	1.4	0.1
Building Construction	0.4	4.4	15.0	<0.1	0.6	<0.1	0.2	0.1
Paving	0.4	1.8	9.0	<0.1	0.2	<0.1	<0.1	<0.1
Architectural Coating	7.2	0.7	1.3	<0.1	0.1	<0.1	<0.1	<0.1
Peak Daily Emissions	**7.6**	**5.2**	**36.0**	**0.1**	**8.6**		**4.2**	
SCAQMD Threshold	**75.0**	**100.0**	**550.0**	**150.0**	**150.0**		**55.0**	
Significant?	**No**	**No**	**No**	**No**	**No**		**No**	

Source: Compiled by LSA (February 2025).
Note: Some values may not appear to add correctly due to rounding. Maximum emissions of VOCs, NOx, and CO occurred during the overlapping building construction and architectural coating phases.

Table F: Short-Term Regional Construction Emissions

Construction Phase	Maximum Daily Regional Pollutant Emissions (lbs/day)							
	VOCs	NO_X	CO	SO_X	Fugitive PM_{10}	Exhaust PM_{10}	Fugitive $PM_{2.5}$	Exhaust $PM_{2.5}$

CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

As shown in **Table F**, construction emissions associated with the project would not exceed the daily SCAQMD thresholds for VOCs, NO_x, CO, SO_X, $PM_{2.5}$, or PM_{10} emissions. Therefore, construction of the proposed project would not result in emissions that would result in a cumulatively considerable net increase of any criteria pollutant for which the project is in nonattainment under an applicable National Ambient Air Quality Standards (NAAQS) or California Ambient Air Quality Standards (CAAQS).

Operational Impacts. Long-term air pollutant emissions associated with operation of the proposed project include emissions from area, energy, and mobile sources. Area-source emissions include architectural coatings, consumer products, and landscaping. Energy-source emissions result from activities in buildings that use natural gas.

Mobile-source emissions are from vehicle trips associated with operation of the project. Area-source emissions consist of direct sources of air emissions at the project site, including architectural coatings, consumer products, and use of landscape maintenance equipment.

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other particulate matter emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles.

LSA calculated long-term operational emissions associated with the proposed project using CalEEMod. **Table G** provides the estimated existing emissions and the proposed project's estimated operational emissions.[15]

[15] This analysis evaluated the project emissions associated with 100,600 sf of self-storage uses and 122 net new ADT. The project's site plan has since been modified to include 91,558 sf of self-storage uses and 108 net new ADT. LSA reviewed this modification to the project site plan and determined that the modified square footage would not result in more severe air quality impacts than what is described within.

Table G: Project Operational Emissions

Emission Type	Pollutant Emissions (lbs/day)					
	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Mobile Sources	0.3	0.2	2.5	<0.1	0.6	0.2
Area Sources	2.9	<0.1	4.0	<0.1	<0.1	<0.1
Energy Sources	<0.1	0.6	0.5	<0.1	0.1	0.1
Total Project Emissions	**3.2**	**0.8**	**7.0**	**<0.1**	**0.7**	**0.3**
SCAQMD Threshold	**55.0**	**55.0**	**550.0**	**150.0**	**150.0**	**55.0**
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (February 2025).
Note: Some values may not appear to add correctly due to rounding.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

The results shown in **Table G** indicate the proposed project would not exceed the significance criteria for daily VOCs, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$ emissions. Therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State ambient air quality standard (NAAQS or CAAQS).

Long-Term Microscale (CO Hot-Spot) Analysis. Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the vicinity of the project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable LOS or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at the 1630 West Pampas Lane station in Anaheim (the closest station to the project site), showed a highest recorded 1-hour concentration of 2.5 parts per million (ppm) (the State standard is 20 ppm) and a highest 8-hour concentration of 1.6 ppm (the State standard is 9 ppm) during the past 3 years.[16] The highest CO

[16] United States Environmental Protection Agency (EPA). 2023. Outdoor Air Quality Data.

concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

The proposed project is expected to generate 108 net new ADT, with 7 net new trips in the a.m. peak hour and 11 net new trips in the p.m. peak hour. As the proposed project would not generate 100 or more a.m. or p.m. peak-hour trips, it did not meet the criteria for an evaluation of study area intersection or roadway segment levels of service. Therefore, given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any intersections, project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the project would not result in any project-related impacts on CO concentrations.

Health Risk on Nearby Sensitive Receptors. Sensitive receptors are defined as people who have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential dwelling units. As identified above, the closest sensitive receptors to the project site are the multifamily residences 36 feet west of the project site.

A construction Health Risk Assessment, which evaluates construction-period health risk to off-site receptors, was completed for the proposed project. **Table H**, below, identifies the results of the analysis assuming the use of Tier 4 Final construction equipment as proposed by the project.[17]

As shown in **Table H**, the maximum cancer risk for the residential receptor maximally exposed individual (MEI) would be 1.39 in 1 million, which would not exceed the SCAQMD cancer risk threshold of 10 in 1 million. The worker receptor risk would be lower at 0.12 in 1 million, and the school receptor risk would be 0.001 in 1 million, which would also not exceed the SCAQMD cancer risk thresholds. The total chronic hazard index would be 0.002 for the residential receptor MEI, 0.007 for the worker receptor MEI, and less than 0.001 for the school receptor MEI, which is below the threshold of 1.0. In addition, the total acute hazard index would be

[17] This analysis was conducted assuming that there would be 100,600 sf of building construction, whereas the proposed project now includes 91,558 sf of building construction. Therefore, this analysis provides a conservative estimate of the potential health risks related to construction activities associated with the proposed project.

Table H: Health Risks from Project Construction to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in 1 Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Worker Receptor Risk	0.12	0.007	0
Residential Receptor Risk	1.39	0.002	0
School Sensitive Receptor	0.001	<0.001	0
SCAQMD Significance Threshold	**10 in 1 million**	**1.000**	**1**
Significant?	**No**	**No**	**No**

Source: LSA (February 2025).
SCAQMD = South Coast Air Quality Management District

nominal (0), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SCAQMD thresholds and would not expose nearby sensitive receptors, including the adjacent residences, to substantial pollutant concentrations. No significant health risk would occur from project construction emissions.

Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of toxic air contaminants (TACs). Therefore, the project would not expose sensitive receptors to substantial levels of TACs.

Localized Impact Analysis. SCAQMD provides localized significance threshold (LST) screening tables for 25-, 50-, 100-, 200-, and 500-meter source-receptor distances. As identified above, the closest sensitive receptors to the project site are the multifamily residences immediately west of the project site at approximately 36 feet. In cases where receptors may be closer than 82 feet (25 meters), any distances within the 82-foot (25-meter) buffer zone can be used. Therefore, this LST analysis was completed to show the construction and operational impacts at 25 meters (82 feet) to the nearest sensitive receptors to the project site in Source Receptor Area 17 based on a 3.0-acre daily disturbance area for construction and a 3.5-acre project site for operation. **Tables I and J** show the results of the LST analysis during project construction and operation, respectively.

Table I: Project Localized Construction Emissions

Source	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	4.3	35.2	7.7	3.9
Localized Significance Threshold	**138.0**	**894**	**8.3**	**5.0**
Significant?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (February 2025).
Note: Source Receptor Area 17, based on a 3.0-acre construction disturbance daily area, at a distance of 25 meters (82 feet) from the project boundary.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

Table J: Project Localized Operational Emissions

Source	Pollutant Emissions (lbs/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	0.6	4.6	0.1	0.1
Localized Significance Thresholds	**149.0**	**984.0**	**2.5**	**1.5**
Significant?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (February 2025).
Note: Source Receptor Area 17, based on a 3.5-acre operational project site, at a distance of 25 meters (82 feet) from the project boundary.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

By design, the localized impact analysis only includes on-site sources; however, the CalEEMod outputs do not separate on-site and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions detailed in **Table J** assume all area- and energy-source emissions would occur on site, and 5 percent of the project-related new mobile sources (which is an estimate of the amount of project-related on-site vehicle and truck travel) would be on site. Considering the total trip length included in CalEEMod, the 5 percent assumption is conservative. **Table J** indicates the localized operational emissions would not exceed the LSTs at nearby residences. Therefore, the proposed operational activity would not result in a locally significant air quality impact.

As detailed in **Tables I and J**, the emission levels indicate that the project would not exceed SCAQMD LSTs during project construction or operation. The project's peak operational on-site NO_X emissions are approximately less than 1 pound per day. Due to the small size of the proposed project in relation to the overall Basin, the level of emissions is not sufficiently high to use a regional modeling program to correlate health effects on a Basin-wide level. On a regional scale, the quantity of emissions from the project is incrementally minor. Because the SCAQMD has not identified any other methods to quantify health impacts from small projects, and due to the size of the project, it is speculative to assign any specific health effects to small project-related emissions. However, based on this localized analysis, the proposed project would not expose sensitive receptors to substantial pollutant concentrations. Therefore, the project would not expose sensitive receptors to substantial levels of pollutant concentrations.

Odors. Heavy-duty equipment on the project site during construction would emit odors, primarily from equipment exhaust. However, the construction activity would cease after individual construction is completed. No other sources of objectionable odors have been identified for the proposed project.

SCAQMD Rule 402 regarding nuisances states, "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property." The proposed uses are not anticipated to emit any objectionable odors. Therefore, the proposed

project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed SCAQMD thresholds of significance. Compliance with SCAQMD Rule 403: Fugitive Dust would further reduce construction dust impacts. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also be consistent with the 2022 AQMP and would also not result in objectionable odors affecting a substantial number of people.

Water Quality.

Construction Impacts. Pollutants of concern during construction include sediments, trash, petroleum products, concrete waste (dry and wet), sanitary waste, and chemicals. Each of these pollutants on its own or in combination with other pollutants can have a detrimental effect on water quality. During construction activities, excavated soil would be exposed, and there would be an increased potential for soil erosion and sedimentation compared to existing conditions. In addition, chemicals, liquid products, petroleum products (e.g., paints, solvents, and fuels), and concrete-related waste may be spilled or leaked, and they have the potential to be transported via storm water runoff into receiving waters.

Project construction would result in a total disturbed soil area of 1.23 acres. Projects that disturb greater than 1 acre of soil are subject to the regulatory requirements of the *State Water Resources Control Board (SWRCB) Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities* (Order WQ 2022-0057-DWQ NPDES No. CAS000002) (Construction General Permit). Because the proposed project would disturb more than 1 acre, the Applicant would be required to obtain coverage under the Construction General Permit, which requires the preparation and implementation of a Stormwater Pollution Prevention Plan and best management practices (BMPs) including, but not limited to, Erosion Control and Sediment Control BMPs designed to minimize erosion and retain sediment on site and Good Housekeeping BMPs to prevent spills, leaks, and discharge of construction debris and waste into receiving waters. Compliance with the standard requirements of the Construction General Permit would ensure that construction impacts related to surface water quality would be less than significant.

According to the *Geotechnical Site Evaluation* (**Attachment D**) prepared for the proposed project, groundwater was encountered during exploratory borings at depths at 46 feet below ground surface (bgs). Excavation during construction would be to a maximum depth of 8.5 feet bgs. Due to the depth of groundwater and the proposed depth of excavation, groundwater is not anticipated to be encountered during construction; therefore, groundwater dewatering would not be required during construction and construction-related impacts to groundwater would be less than significant.

Operational Impacts. Stormwater runoff from the project site currently flows south via a series of valley gutters to the southwest corner of the site and south of the property line where it enters the City's storm drainage system (Delhi Channel), where it ultimately

discharges to Newport Bay and the Pacific Ocean. Under the proposed conditions, stormwater runoff would be conveyed in a similar manner as existing conditions.

The proposed project would redevelop a 3.48-acre site with existing self-storage facilities and would result in the increase of 0.22 acre of impervious surface area. Proposed project operation has the potential to result in pollutants of concern including suspended soil/sediment, nutrients, pesticides, oil and grease, and trash and debris. Therefore, the proposed project is subject to the requirements of the California Regional Water Quality Control Board, Santa Ana Region*, Waste Discharge Requirements for The County of Orange, Orange County Flood Control District and The Incorporated Cities of Orange County within the Santa Ana Region Areawide Urban Storm Water Runoff* (Orange County MS4 Permit), Order No. R8-2009-0030, NPDES No. CAS618030, as amended by Order No. R8-2010-0062. The Orange County Flood Control District, the County of Orange, and incorporated cities, including the City of Santa Ana, are subject to the Orange County MS4 permit. The Orange County MS4 permit requires that a Water Quality Management Plan (WQMP) be prepared for priority new development and redevelopment projects. The proposed project is considered a priority redevelopment project because it replaces more than 5,000 sf of impervious surface on an already developed site.

In compliance with the Orange County MS4 Permit, a *Preliminary WQMP* (**Attachment E**) was prepared for the proposed project. WQMPs specify the Site Design, Source Control, Low Impact Development, and Treatment Control BMPs that would be implemented to capture, treat, and reduce pollutants of concern in stormwater runoff. According to the Preliminary WQMP, stormwater runoff from the proposed project would be captured via a trench drain constructed at the eastern edge of the project site. Additionally, runoff from the proposed building would be collected in downspouts and routed to an underground retention basin for infiltration. Infiltration will be used for water quality treatment in compliance with the requirements of the Orange County MS4 permit. The remainder of the project site would continue to drain via the existing valley gutters to the southwest corner of the site and south of the property line and into the City's storm drainage system (Delhi Channel). In addition to the Orange County MS4, the proposed project would comply with City Municipal Code Section 18-156, Control Urban Runoff, which requires all new development and significant redevelopment to comply with Orange County's Drainage Area Management Plan and "any conditions and requirements established by city agencies related to the reduction or elimination of pollutants in storm water runoff from the project site". [18] Because the proposed project would implement the requirements of the applicable NPDES permit and associated BMPs and the City's Municipal Code, impacts to surface water quality would be less than significant.

Under existing conditions, the project site includes 0.87 acre of impervious surface area and the proposed project would result in the increase of 0.22 acre of impervious surface area.

[18] City of Santa Ana. 2024b. Municipal Code Section 18-156. Website: https://library.municode.com/ca/santa_ana/codes/code_of_ordinances?nodeId=PTIITHCO_CH18HESA_ARTIVWAPO_S18-161CODI (accessed May 20, 2024).

Impervious surfaces preclude groundwater infiltration and thereby interfere with groundwater recharge. The project site is within the boundaries of the Coastal Plain of Orange County Groundwater Basin.[19] According to the Preliminary WQMP, the majority of on-site soils are in Soil Group B and characterized by a fair to moderate infiltration rate. Additionally, stormwater runoff from the proposed project would be captured via a trench drain constructed at the eastern edge of the project site and runoff from the proposed building would be collected in downspouts and routed to an underground retention basin for infiltration. Therefore, the proposed project would not decrease groundwater supplies or interfere with groundwater recharge compared to existing conditions.

According to Federal Emergency Management Agency Flood Insurance Rate Map No. 06059CO276J (December 2009), the project site is not within a 100-year floodplain. Specifically, the project site is within Zone X, an area of minimal flood hazard (outside the 500-year floodplain). According to the California Department of Conservation,[20] the project site is not within a tsunami hazard zone. Therefore, no project-related impacts associated with flood flows or release of pollutants from inundation would occur.

The proposed project would comply with the Construction General Permit, the City's Municipal Code, and Orange County MS4 Permit, which require the implementation of BMPs to treat pollutants of concern and control the volume and velocity of stormwater runoff. In addition, the proposed project would not require groundwater dewatering and would not interfere with groundwater recharge. The proposed project would not conflict with the Water Quality Control Plan for the Santa Ana River Basin or sustainable groundwater management plans.

Overall, the proposed project would not result in impacts associated with water quality.

(5) The project site is adequately served by all required utilities and services.

The project site is served by all utilities and public services in the existing condition. Specific utilities and public service providers serving the project site include:

Water	City of Santa Ana Public Works Agency
Wastewater	City of Santa Ana Public Works Agency
Fire	Orange County Fire Authority
Police	Santa Ana Police Department
Schools	Santa Ana Unified School District
Landfill	Private waste haulers
Electricity	Southern California Edison
Natural Gas	Southern California Gas Company

19 California Department of Water Resources. 2016. Groundwater Basin Boundary Assessment Tool. Website: https://gis.water.ca.gov/app/bbat/ (accessed May 20, 2024).

20 California Department of Conservation. 2020. Orange County Tsunami Hazard Areas. Website: https://www.conservation.ca.gov/cgs/tsunami/maps/orange (accessed May 20, 2024).

The project site is currently developed for qualified urban uses. As defined by Public Resources Code (PRC) Section 21072, a qualified urban use is any residential, commercial, public institutional, transit or transportation passenger facility, or retail use, or any combination of those uses. The proposed project would continue the existing self-storage use on the project site. As such, the project site is served by all utilities and service providers in the existing condition.

The City of Santa Ana Public Works Agency is the water provider for the project site. The City of Santa Ana Public Works Agency maintains and operates the sewer collection system, including storm drains, catch basins, and sewer lines. Water usage for operation of the proposed additions to the self-storage uses on site would be minimal, limited to irrigation for the existing landscaping and fire suppression systems. The new self-storage building would require similar water use as the existing buildings on site and project operation would not substantially increase water usage on the project site compared to existing conditions due to the use as a storage facility. Wastewater would only be generated from the office use and manager's apartment and fire suppression systems in the unlikely event of a fire. The proposed project would construct on-site water and wastewater distribution systems to serve the new building. The on-site systems would be constructed in compliance with the City's building and plumbing codes in its Municipal Code. The proposed on-site distribution systems would connect to the existing water and wastewater facilities off site. Extension of the water and wastewater infrastructure from the existing system within the project site would be a routine part of the construction process and would not result in additional environmental impacts beyond those evaluated for the construction of the project. The water and wastewater facility improvements would be limited to the project site, and connection points would remain as they exist now.

The City of Santa Ana contracts fire department services with the Orange County Fire Authority (OCFA), which fulfills both fire protection and emergency medical responsibilities. Santa Ana is within Operations Division 6, which includes 10 fire stations[21]. The closest fire station to the project site is OCFA–Santa Ana Fire Station number 72, at 1688 East 4th Street, 0.7 mile east of the project site. Because the proposed project would not change the existing use on site or require additional employees beyond what is required for existing operations, the OCFA and Fire Station 72 would adequately serve the proposed project. The proposed project would provide a minimum 20-foot-wide, paved "fire lane" access roadway through the project site and fire safety equipment and design elements such as fire hydrants, sprinkler systems, emergency access/fire lanes, fire extinguishers, and Knox boxes would be incorporated into the project design. The proposed project would satisfy all fire protection standards contained in the Uniform Fire and Building Codes.

Police protection services are provided to the city, including the project site, by the Santa Ana Police Department (SAPD). The SAPD includes multiple departments, including the Field Operations Bureau, composed of the patrol, operations, and traffic divisions. The SAPD central

[21] Orange County Fire Authority. 2023. "Member Cities". Website: https://ocfa.org/AboutUs/PartnerCities.aspx#:~:text=The%20Orange%20County%20Fire%20Authority,10%20stations%20throughout%20Orange%20County (accessed May 20, 2024).

police station is at 60 Civic Center Plaza, and the City's Westend substation is at 3750 West McFadden Avenue.[22] In addition, SAPD maintains the Santa Ana Regional Transportation Public Safety Office and Jose Vargas Community Affairs Office. The closest police station to the project site is at 60 Civic Center Plaza, 1.4 miles northwest of the project site. The proposed project would not decrease the officer-to-resident ratio in Santa Ana or trigger the need for new or physically altered police facilities. Because the proposed project would not change the existing use on site or require additional employees beyond what is required for existing operations, the SAPD would adequately serve the proposed project.

CALIFORNIA ENVIRONMENTAL QUALITY ACT CATEGORICAL EXEMPTIONS—EXCEPTIONS

State CEQA Guidelines Section 15300.2 provides exceptions to categorical exemptions that apply to specific types of projects. The exceptions to the CEs pursuant to Section 15300.2 of the *State CEQA Guidelines* are:

(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located—a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply in all instances, except where the project may impact an environmental resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.

The proposed project does not rely on the specific classes of exemptions (3, 4, 5, 6, and 11) called out at the beginning of exception 15300.2(a). This exception does not apply to the proposed project.

Nonetheless, if this exception were applicable to a Class 32 exemption, the proposed project would not trigger this exception. The project site is at 1030 East 4th Street and is characterized by pavement, storage facilities, and landscaping associated with the existing on-site use. The project site is surrounded on all sides by urban development and is zoned Specific Development-84 (SD-84) and Heavy Industrial (M2) and designated for Urban Neighborhood-Medium-Low (UN-30 uses). Therefore, the project site is not particularly sensitive in terms of environmental resources, and there are no mapped environmentally sensitive habitat areas within or close to the project site. In addition, the proposed project, like all projects, would be subject to the provisions of the MBTA, which prohibits disturbing or destroying active nests, and California Fish and Game Code Section 3503, which protects nests and eggs. There are no trees on the project site, therefore, the proposed project would not include the removal and replacement of on-site trees. With compliance with existing regulations, potential impacts to nesting birds would be avoided.

[22] Santa Ana Police Department. 2023. "City of Santa Ana: Police". Website. https://www.santa-ana.org/departments/police (accessed May 20, 2024).

(b) <u>Cumulative Impact</u>. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place over time is significant.

The proposed project is an infill development project in an urban area. According to the Governor's Office of Planning and Research, the term "infill development" refers to building within unused and underutilized lands within existing development patterns, typically, but not exclusively, in urban areas.[23] The project site and surrounding areas are currently developed for qualified urban uses as defined by PRC Section 21072.

According to the City of Santa Ana's Major Development Activity Report[24], there are several active projects within the vicinity of the project site. The following active projects are within 1 mile of the project site: 3rd & Broadway Mixed-Use Development Project, 4th & Mortimer Mixed-Use Development Project, Cabrillo Crossing Townhomes Project, FX Residences Project, Innovative Housing Opportunities Mixed-Use Project, Santa Ana Lyon Towns Project, The Madison Project, and WISEPlace PSH Adaptive Reuse Development Project. These projects include development of residential buildings, multifamily apartments, and mixed-use buildings with commercial space. There are no active projects of the same type (commercial self-storage) in the vicinity of the project site.

Due to the project site's close proximity to the FX Residences Project, 4th & Mortimer Mixed-Use Development Project, and 3rd & Broadway Mixed-Use Development Project, the proposed project has the potential to contribute to cumulative impacts in relation to these projects. The remaining projects listed above are farther away, and intervening land uses would prohibit the proposed project from contributing to a significant cumulative impact. Therefore, the following discussion evaluates the proposed project's potential to result in cumulative impacts in conjunction with the FX Residences Project, 4th & Mortimer Mixed-Use Development Project, and 3rd & Broadway Mixed-Use Development Project.

The proposed project would contribute criteria pollutants to the area during project construction. Individual projects in the area may be under construction simultaneously with the proposed project. Depending on construction schedules and actual implementation of projects in the area, generation of fugitive dust and pollutant emissions during construction could result in substantial short-term increases in air pollutants. However, each project would be required to comply with SCAQMD's standard construction measures. As of February 11, 2025, construction of the FX Residences Project was 95 percent complete, and therefore its construction is not anticipated to overlap with the proposed project.[25] Additionally, the Addenda to the City's

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23 Governor's Office of Planning and Research. n.d. Infill Development. Website: https://opr.ca.gov/planning/land-use/infill-development/ (accessed May 20, 2024).

24 City of Santa Ana. 2024a. City of Santa Ana – Major Development Activity Report. Website: https://www.santa-ana.org/major-planning-projects-and-monthly-development-project-reports/ (accessed May 20, 2024).

25 City of Santa Ana. 2025. Major Development Projects, FX Residences. Website: https://www.santa-ana.org/fx-residences/ (accessed February 19, 2025).

Transit Zoning Code Environmental Impact Report prepared for the 4th & Mortimer Project[26] and 3rd & Broadway Mixed-Use Development Project[27] concluded that the air quality emissions associated with those projects would not exceed applicable SCAQMD thresholds. The proposed project's short-term construction CO, nitrogen dioxide, PM_{10}, and $PM_{2.5}$ emissions would not exceed the LSTs. Therefore, construction of the proposed project would have a less than significant impact with regard to regional and localized emissions and would not result in cumulatively considerable impacts.

Construction of the proposed project would result in short-term noise and vibration. Individual projects in the area may be under construction simultaneously with the proposed project. Depending on construction schedules and actual implementation of projects in the area, construction could result in substantial short-term increases in noise and vibration levels. However, each project would be required to comply with the City's Noise Ordinance. As discussed above, construction of the FX Residences Project is 95 percent complete and, therefore its construction is not anticipated to overlap with the proposed project. Additionally, environmental analyses completed for the 3rd & Broadway Mixed-Use Development Project and 4th & Mortimer Project concluded that construction noise impacts associated with those projects would be less than significant and vibration impacts would be potentially significant if construction takes place within 25 feet of a sensitive receptor. Due to the proposed project's distance to these projects, the proposed project would not contribute to cumulatively considerable vibration impacts. The proposed project's short-term construction noise and vibration levels would not exceed the vibration threshold considered safe for non-engineered timber and masonry buildings or the FTA's noise criteria. Additionally, the proposed project would be constructed in compliance with the requirements of the City's Noise Ordinance. Therefore, construction of the proposed project would have a less than significant impact with regard to noise and vibration and would not result in cumulatively considerable impacts.

Construction of the proposed project would result in short-term traffic in the area. Individual projects in the area may be under construction simultaneously with the proposed project. Depending on construction schedules and actual implementation of projects in the area, construction could result in substantial short-term increases in traffic. As discussed above, construction of the FX Residences Project is 95 percent complete, and therefore its construction is not anticipated to overlap with the proposed project. Additionally, environmental analyses completed for the 3rd & Broadway Mixed-Use Development Project and 4th & Mortimer Project concluded that construction traffic impacts associated with those projects would be less than significant. The proposed project would not result in a significant traffic impact during construction. Therefore, construction of the proposed project would have a less than significant impact with regard to traffic and would not result in cumulatively considerable impacts.

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26 Rincon Consultants, Inc. 2020. 4th & Mortimer Project Environmental Impact Report Addendum, SCH#2006071100. October.

27 PlaceWorks. 2020. Addendum to the Santa Ana Transit Zoning Code (Specific Development No. 84 (SD 84A and SD 84B) EIR 3rd & Broadway Mixed-Use Development Project. September.

In summary, the proposed project is an infill development project in an urban area. Upon completion of construction, the project site would operate in a nearly identical manner as its current operation. The proposed project would rely on and can be accommodated by the existing road system, public services, and utilities. Impacts of the proposed project would not be cumulatively considerable in connection with the effects of past projects, the effects of other current projects, or the effects of probable future projects.

(c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.

The Air Quality Analysis and the Traffic Analysis for the proposed project conclude that the proposed project would not result in a significant impact related to these topics. No amendments to an adopted land use or planning document would be required for implementation of the proposed project, and the proposed project would be consistent with the City's Municipal Code requirements. The proposed project would continue the existing self-storage use on-site and would operate in a nearly identical manner as its current operation. Given the urban nature of the project site and the compatibility of the proposed project with the character of the surrounding uses, there is no evidence to indicate that the proposed project would have a significant effect on the environment due to unusual circumstances.

(d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified Environmental Impact Report.

The nearest eligible or State-designated scenic highway to the project site is State Route 91, which is 6.9 miles northeast of the project site.[28] Therefore, the proposed project does not have the potential to damage resources within a State-designated scenic highway. The project site is developed with a self-storage facility; none of the existing structures on the project site are more than 50 years old and, therefore, are not eligible for listing as historic resources. Additionally, the project site is not listed on the City of Santa Ana Register of Historic Properties[29] or mapped within a historic district on the City of Santa Ana Historic Resource Map.[30]

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28 California Department of Transportation. 2018. California State Scenic Highway System Map. Website: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways (accessed May 20, 2024).

29 City of Santa Ana. n.d. City of Santa Ana Register of Historic Properties. Website: https://www.santa-ana.org/historic-preservation/ (accessed May 20, 2024).

30 City of Santa Ana. 2023b. City of Santa Ana Historic Resource Map. Website: https://www.santa-ana.org/historic-preservation/ (accessed May 20, 2024).

(e) <u>Hazardous Waste Sites</u>. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.

A Phase 1 Environmental Site Assessment[31] (**Attachment F**) was prepared to identify the environmental conditions of the site. Pursuant to Government Code Section 65962.5, the Hazardous Waste and Substances Sites List (Cortese List) has been compiled by the California Environmental Protection Agency Hazardous Materials Data Management Program. The California Department of Toxic Substances Control (DTSC) compiles information from subsets of the following databases to make up the Cortese List:

1. The DTSC list of contaminated or potentially contaminated hazardous waste sites listed in the California Sites database (formerly known as ASPIS);
2. The California SWRCB listing of leaking underground storage tanks (LUSTs); and
3. The California Integrated Waste Management Board list of sanitary landfills that have evidence of groundwater contamination or known migration of hazardous materials (formerly WB-LF; now Assembly Bill 3750).

The proposed project would not be on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5.[32] The project site is not within 0.25 mile of any active cleanup sites.[33]

(f) <u>Historical Resources</u>. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resource.

The buildings on the project site were constructed in approximately 1995. The project site is developed with a self-storage facility; none of the existing structures on the project site are more than 50 years old and, therefore, are not eligible for listing as historic resources. Additionally, the project site is not listed on City of Santa Ana Register of Historic Properties,[34] and there are no recorded historic resources in the vicinity of the project site. According to the City of Santa Ana Historic Resource Map[35] and the City's General Plan Historic Preservation Element[36], the project site is not within a historic district or near a historic district. As the existing buildings on the project site are not 50 years old, they are not old enough to be

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31 The Vertex Companies, Inc. 2015. P*hase I Environmental Site Assessment (ESA*) *Memorandum*. March.

32 Department of Toxic Substances Control. 2024. EnviroStor. Website: https://www.envirostor.dtsc.ca.gov/public/ (accessed May 28, 2024).

33 State Water Resources Control Board. 2024. GeoTracker Map. Website: https://geotracker.waterboards.ca.gov/ (accessed May 28, 2024).

34 City of Santa Ana. n.d. City of Santa Ana Register of Historic Properties. Website: https://www.santa-ana.org/historic-preservation/ (accessed May 20, 2024).

35 City of Santa Ana. 2023b. City of Santa Ana Historic Resource Map. Website: https://www.santa-ana.org/historic-preservation/ (accessed May 20, 2024).

36 City of Santa Ana. 2022. Historic Preservation Element. Website: https://storage.googleapis.com/proudcity/santaanaca/uploads/2022/05/Vol.-3-Historic-Preservation-Element-April-2022.pdf (accessed May 20, 2024).

considered historical resources and are not eligible for listed at the federal, State, or local levels. Because of the age of the existing buildings, they do not need to be evaluated as historical resources pursuant to CEQA. As such, project construction and operation would have no impacts to "historical resources" pursuant to *State CEQA Guidelines* Section 5064.5.

CONCLUSION

In summary, the proposed project would not result in any specific or general exceptions to the use of a CE as detailed under *State CEQA Guidelines* Section 15332. The proposed project would not cause any significant impacts to traffic, noise, air quality, or water quality. The project site does not have value as habitat for endangered, rare, or threatened species. The proposed project would not result in damage to a scenic resource within a highway officially designated as a State Scenic Highway. The project site is not on any list compiled pursuant to Section 65962.5 of the Government Code. Furthermore, no unusual circumstances or potential cumulative impacts would occur that may reasonably create an environmental impact. Therefore, the proposed project is exempt from the provisions of CEQA as specified by the *State CEQA Guidelines* identified above.

Attachments:
- A: Figures
- B: Trip Generation and VMT Memorandum
- C: Air Quality Analysis Memorandum
- D: Geotechnical Site Evaluation
- E: Water Quality Management Plan (WQMP)
- F: Phase 1 Environmental Site Assessment (ESA)
- G: References

ATTACHMENT A

FIGURES

Figure 1: Regional Location
Figure 2: Conceptual Site Plan

ATTACHMENT B

TRIP GENERATION AND VMT MEMORANDUM

ATTACHMENT C

AIR QUALITY ANALYSIS MEMORANDUM

ATTACHMENT D

GEOTECHNICAL SITE EVALUATION

ATTACHMENT E

WATER QUALITY MANAGEMENT PLAN (WQMP)

ATTACHMENT F

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT (ESA)

ATTACHMENT G

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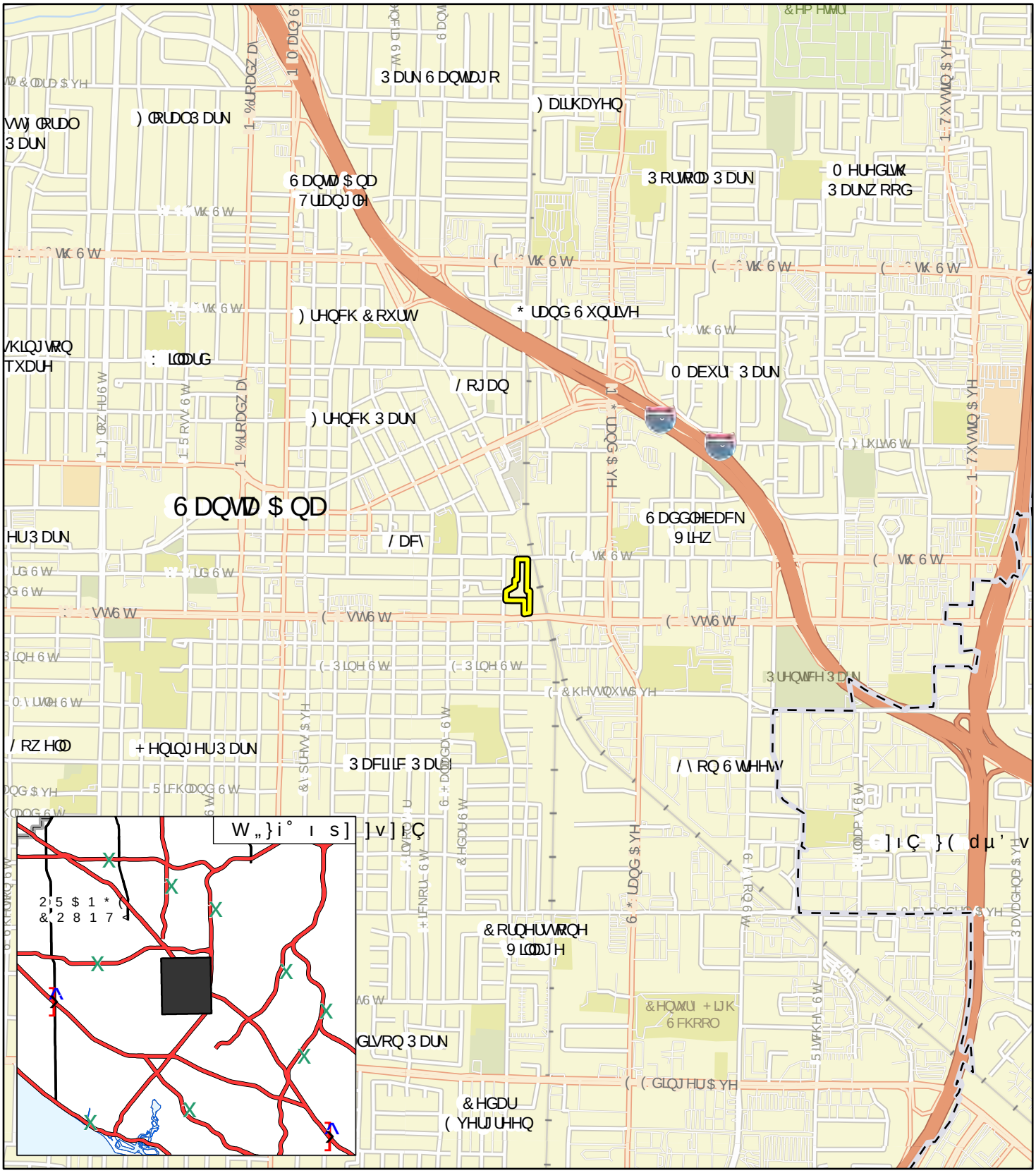
ATTACHMENT A

FIGURES

Figure 1: Regional Location
Figure 2: Conceptual Site Plan



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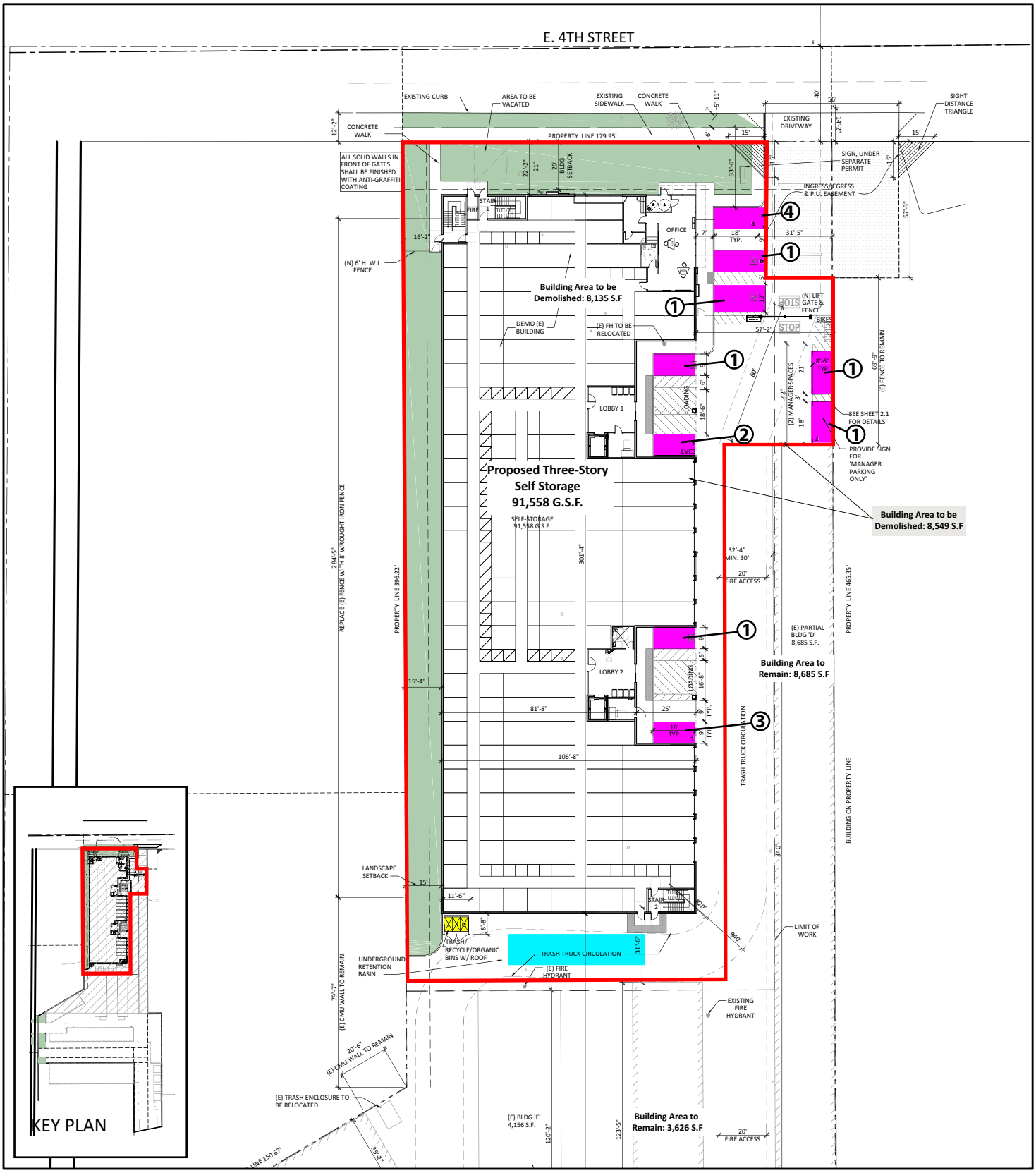

LSA

LEGEND

- Project Site
- Proposed Parking Stalls On-Site (15 Total)
- Trash Enclosure
- Underground Retention Basin

0 30 60

FEET

SOURCE: KSP Studios

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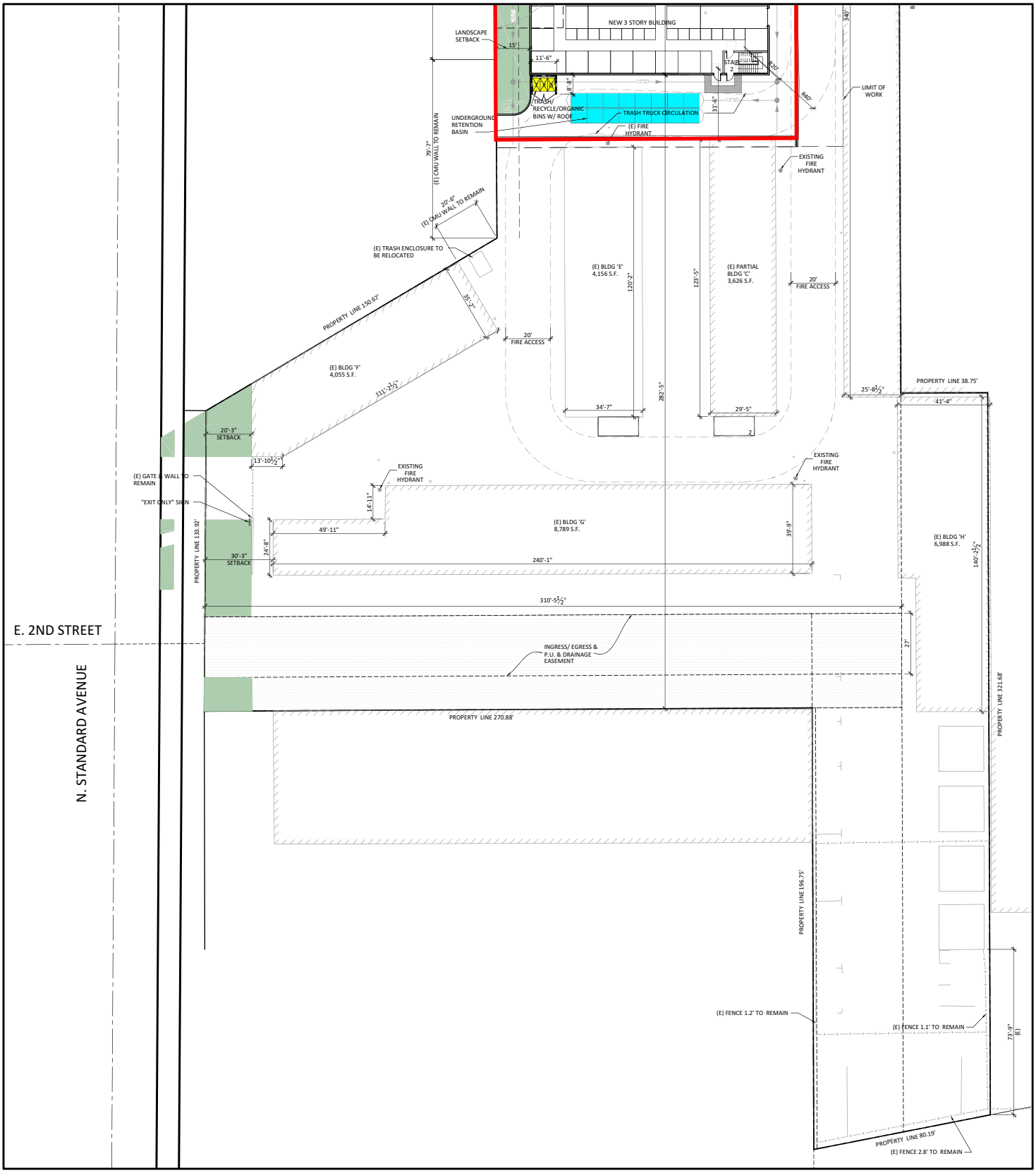
FIGURE 2

Page 1 of 2

Extra Space Storage 4th Street

Conceptual Site Plan



LSA

LEGEND

- Project Site
- Trash Enclosure
- Underground Retention Basin

0 30 60

FEET

SOURCE: KSP Studios

I:\20241677\G\Site_Plan.ai (2/4/2025)

FIGURE 2

Extra Space Storage 4th Street

Conceptual Site Plan

ATTACHMENT B

TRIP GENERATION AND VMT MEMORANDUM

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: February 10, 2025

TO: Danny Morris, Development Director, Extra Space Storage

FROM: Ken Wilhelm, Principal, LSA

SUBJECT: Trip Generation and Vehicle Miles Traveled Assessment for the Extra Space Storage 4th Street Project, Santa Ana, California (LSA Project No. 20241677)

LSA has prepared this trip generation and vehicle miles traveled (VMT) assessment for the proposed Extra Space Storage project at 1030 East 4th Street in Santa Ana.

The purpose of this assessment is to identify the proposed project trip generation and determine whether the project requires a traffic impact study and meets the VMT screening criteria of the *City of Santa Ana Traffic Impact Study Guidelines* (dated September 2019) (City TIS Guidelines).

EXISTING PROJECT SITE

As shown in Figure 1 (all figures provided in Attachment A), Regional Location, the project site is at 1030 East 4th Street in Santa Ana. The 3.48-acre project site is east of Standard Avenue between 1st and 4th Street in the northeastern part of the city. The project site consists of Assessor's Parcel Number 398-461-18. The project site is currently developed with 52,983 square-feet (sf) of self-storage uses (eight one-story buildings), including an 1,841 sf one-story office building, an Extra Space Storage facility sign, and landscaping.

The project site serves as a buffer between residential and industrial uses. The project site is immediately bounded to the north by 4th Street, to the southeast by industrial uses, and to the northwest by multifamily residential uses. Vehicular access to the project site is currently provided by one full-access driveway on 4th Street.

PROPOSED PROJECT

The proposed project would partially demolish two self-storage buildings: approximately 753 sf of the easternmost building and 7,796 sf of the building in the center of the project site. The proposed project would also fully demolish the 1,841 sf office and existing manager's apartment along 4th Street and a 6,294 sf self-storage building in the northwestern corner of the project site. All other existing uses on site including the other self-storage buildings (36,299 sf in total) would remain. The proposed project would replace the demolished buildings with a three story, 91,558 sf, self-storage building that would include a manager's apartment and a rental office. Under post-development conditions, the total self-storage square footage on site (including the existing 36,299 sf of self-storage uses to remain) would be 127,857 sf. Vehicular access to the project site would continue to be provided via the one existing driveway along 4th Street.

Figure 2, Conceptual Site Plan, provides an overview of the proposed site plan, including the locations of the existing buildings to remain, the proposed building and parking stalls, vehicular access, landscaping, and a trash enclosure. No changes to the office hours of operation or storage gate hours are proposed. Office hours are currently Monday through Saturday, from 9:30 a.m. to 6:00 p.m. (closed on Sundays). Storage gate hours are currently Monday through Sunday, from 6:00 a.m. to 8:00 p.m.

TRIP GENERATION ESTIMATE

The trip generation of the existing storage facility (52,983 sf) was calculated using trip rates from the Institute of Transportation Engineers' Trip Generation Manual, 11th Edition (2021) for Land Use Code 151 (Mini-Warehouse). According to the ITE manual, a mini-warehouse is a building in which a number of storage units or vaults are rented for the storage of goods. They are typically referred to as "self-storage" facilities. Each unit is physically separated from other units, and access is usually provided through an overhead door or other common access point. Table A (attached) summarizes the project trip generation using the ITE trip rates for the existing self-storage use. It should be noted that the manager's apartment is both existing and proposed and would not generate new trips.

As shown in Table A (Attachment B), the existing site (including the manager's apartment) generates 77 average daily trips (ADT), including 5 a.m. peak hour trips and 8 p.m. peak hour trips.

The proposed project will include a total of 127,857 sf self-storage use and the manager's apartment (an increase of 74,874 sf from existing). As shown in Table A, the buildout of the site would generate a total of 185 ADT, including 12 a.m. peak-hour and 19 p.m. peak-hour trips.

The net project trip generation (Project – Existing) is 108 ADT, including 7 a.m. peak-hour and 11 p.m. peak-hour trips.

VEHICLE MILES TRAVELED SCREENING ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) Guidelines for use. Among the changes to the guidelines was the removal of vehicle delay and level of service (LOS) as the sole basis of determining CEQA transportation impacts. With implementation of the adopted *State CEQA Guidelines*, transportation impacts are to be evaluated based on a project's effect on VMT. On June 18, 2019, the City adopted its VMT thresholds of significance for transportation impact analysis under CEQA, which were then incorporated into the City TIS Guidelines (dated September 2019).

Pursuant to the Section 2.1 (Project Screening) of the City TIS Guidelines, projects that generate less than 110 net daily trips have the potential to reduce VMT. This is consistent with the screening threshold for small projects identified in the Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA (State of California, December 2018). Table A summarizes the Trip Generation for the proposed project. As shown in Table A, the project is anticipated to generate a total net difference of 108 daily trips, which is below the 110 net daily trip threshold established in the City TIS Guidelines and the screening criteria for small projects from the

OPR Technical Advisory. Therefore, the proposed project is screened out from a VMT analysis and results in a less than significant transportation impact.

Additionally, per City TIS Guidelines, projects within Transit Priority Areas (TPAs) may be presumed to have a less than significant transportation impact. Based on Appendix A (Santa Ana Transit Priority Areas) of the City TIS Guidelines, provided in Attachment C, the proposed project is within a TPA (in a 0.5-mile radius around the existing Santa Ana Metrolink Station). This particularly applies to employees and the manager on site. Therefore, the proposed project is screened out from a VMT analysis and results in a less than significant transportation impact.

The project site is designated for Urban Neighborhood – Medium – Low (UN-30) uses per the City's General Plan. The proposed land use (self-storage use) is the same as the existing land use on site and it would continue to be consistent with the General Plan designation, as well as Regional Transportation Plan/Sustainable Communities Strategy. In addition, the proposed project intends to provide service to, but not limited to, the local community. As mentioned above, the proposed project results in an increase of 74,874 sf of self-storage use from existing, which will increase its service capacity. As such, the proposed project might offer more opportunities for residents and employees to obtain the service closer to home and work, potentially reducing VMT.

CONCLUSIONS

The proposed project is anticipated to generate an additional 108 ADT, including 7 a.m. peak-hour and 11 p.m. peak-hour trips compared to the existing uses on site. Because the proposed project generates a nominal number of new peak-hour trips and less than 110 net daily trips, and is within TPAs, it would not require a traffic study and is screened out from a VMT analysis, per the City TIS Guidelines. Therefore, the project is presumed to have a less than significant transportation impact.

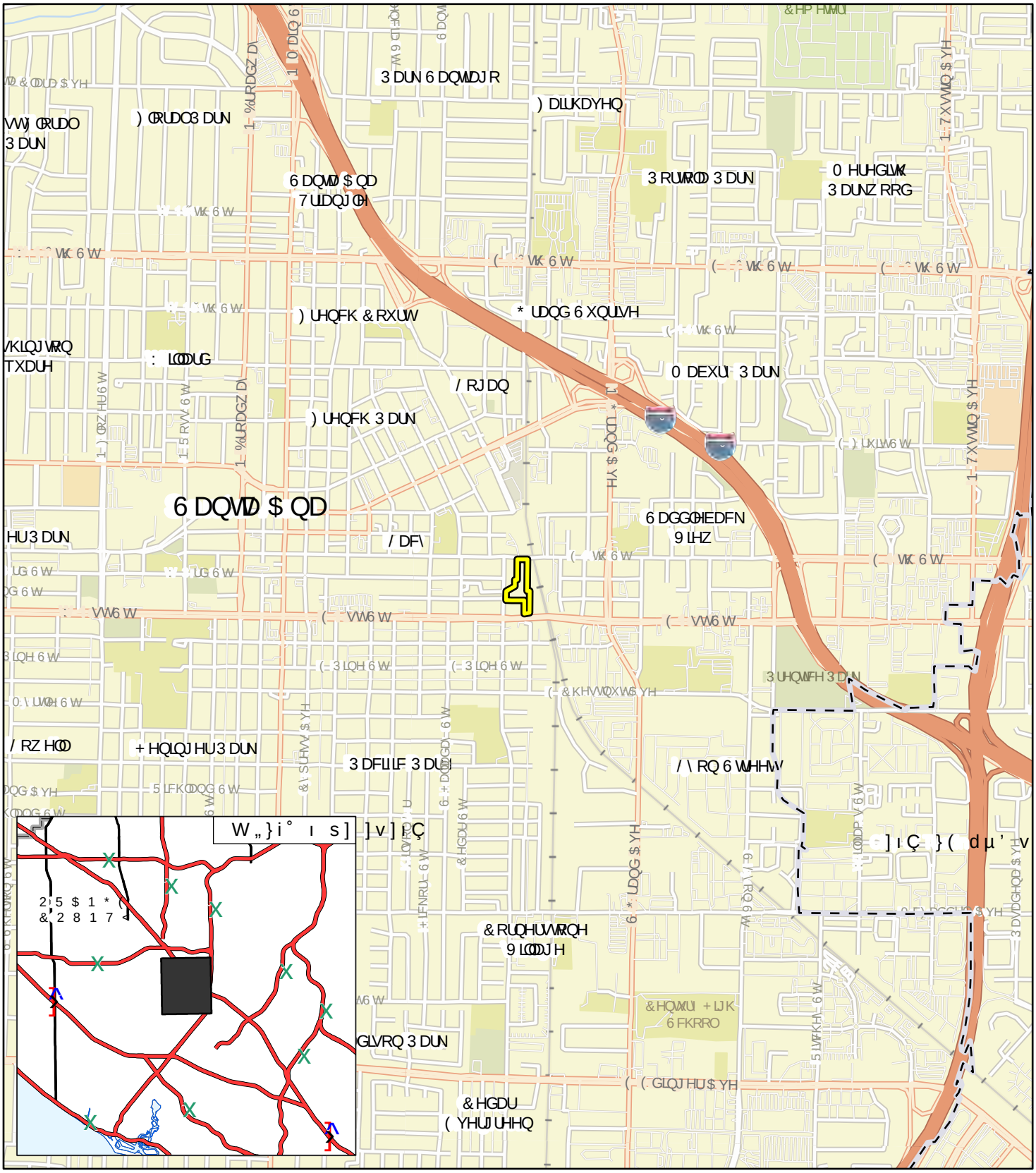
If you have any questions, please contact me at (949) 553-0666.

Attachments: A: Figures
B: Table A: Project Trip Generation
C: Appendix A (Santa Ana Transit Priority Areas) of the City TIS Guidelines

ATTACHMENT A

FIGURES

Figure 1: Regional Location
Figure 2: Project Site Plan



LSA

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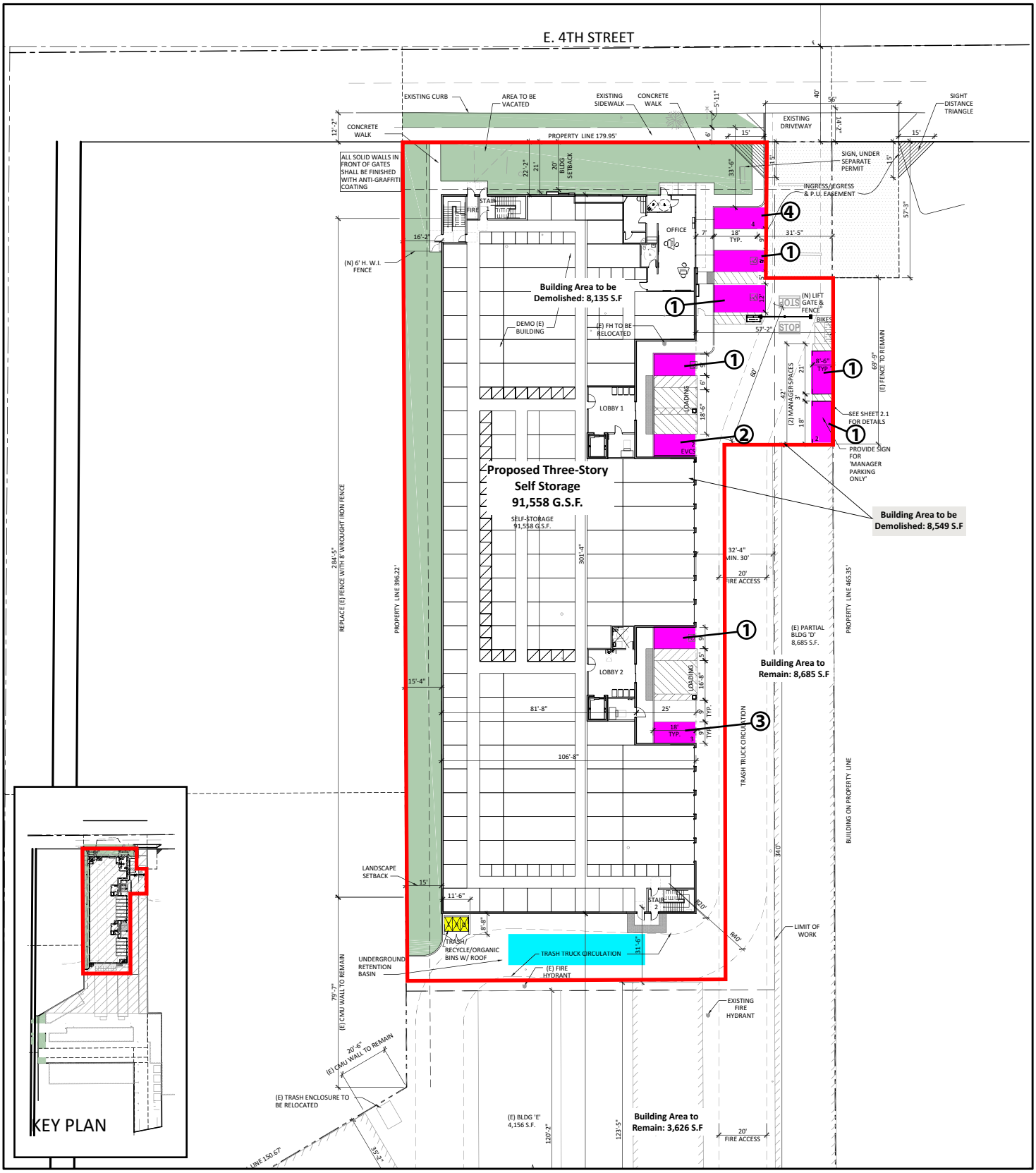

LSA

LEGEND

- Project Site
- Proposed Parking Stalls On-Site (15 Total)
- Trash Enclosure
- Underground Retention Basin

0 30 60

FEET

SOURCE: KSP Studios

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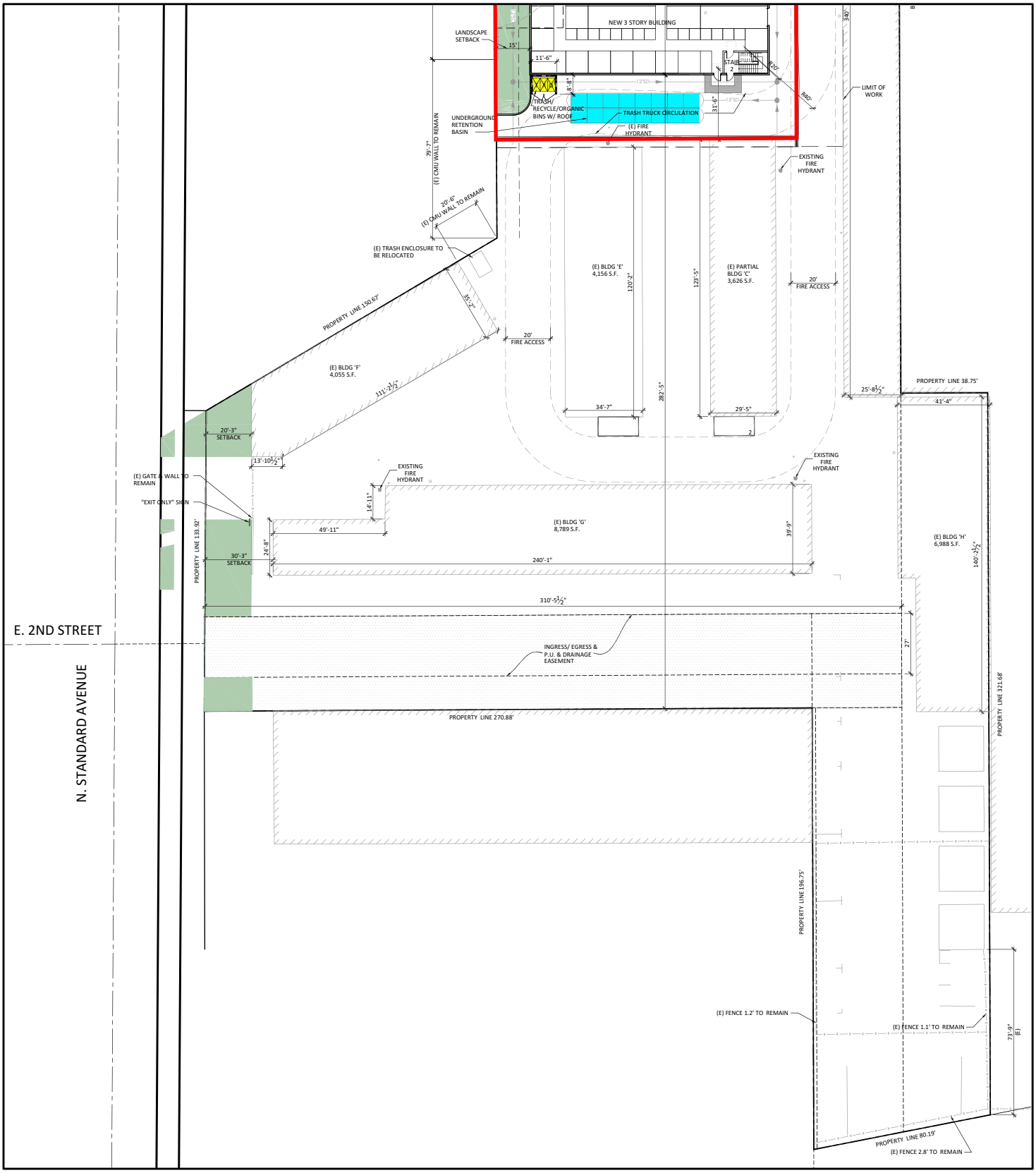
FIGURE 2

Page 1 of 2

Extra Space Storage 4th Street

Conceptual Site Plan



LSA

LEGEND

- Project Site
- Trash Enclosure
- Underground Retention Basin

0 30 60

FEET

SOURCE: KSP Studios

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FIGURE 2

Extra Space Storage 4th Street

Conceptual Site Plan

ATTACHMENT B

TABLE A: PROJECT TRIP GENERATION

LSA

Table A: Project Trip Generation Summary

Land Use	Size	Unit	ADT	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Trip Rates									
Mini-Warehouse (Self-Storage)[1]		tsf	1.45	0.05	0.04	0.09	0.07	0.08	0.15
Existing Trip Generation									
Self Storage	52.983	tsf	77	3	2	5	4	4	8
Project Trip Generation									
Self-Storage	127.857	tsf	185	7	5	12	9	10	19
Net Trip Generation (Project - Existing)			**108**	**4**	**3**	**7**	**5**	**6**	**11**

[1] Trip rates referenced from the Institute of Transportation Engineers (ITE) *Trip Generation* Manual, 11th Edition (2021).

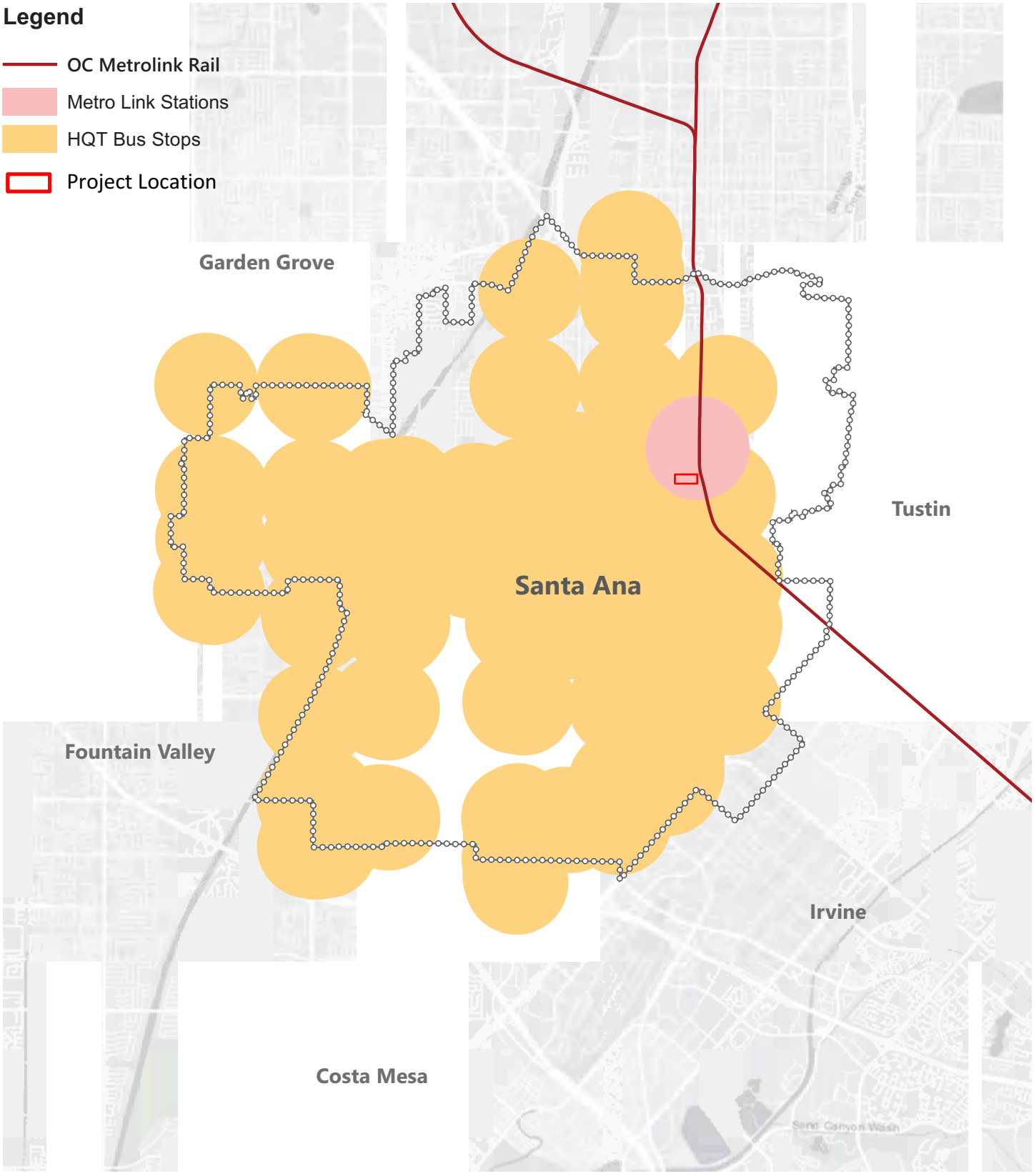
Land Use Code 151 - Mini-Warehouse

ADT = average daily trips.

tsf = thousand square feet

ATTACHMENT C

APPENDIX A (SANTA ANA TRANSIT PRIORITY AREAS) OF THE CITY TIS GUIDELINES


Legend
OC Metrolink Rail
Metro Link Stations
HQT Bus Stops
Project Location
Garden Grove
Tustin
Santa Ana
Fountain Valley
Irvine
Costa Mesa

ATTACHMENT C

AIR QUALITY ANALYSIS MEMORANDUM

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: February 20, 2025

TO: Danny Morris, Development Director, Extra Space Storage

FROM: Cara Cunningham, Associate
Bianca Martinez, Air Quality Specialist

SUBJECT: Air Quality Technical Memorandum for the proposed Extra Space Storage 4th Street Project in Santa Ana, California

INTRODUCTION

This Air Quality Technical Memorandum evaluates the impacts associated with construction and operation of the proposed Extra Space Storage 4th Street Project (project) in Santa Ana, California. This analysis was prepared using methods and assumptions recommended in the air quality impact assessment guidelines of the South Coast Air Quality Management District (SCAQMD) in its *CEQA Air Quality Handbook* (1993)[1] and associated updates. This analysis includes an assessment of criteria pollutant emissions, an assessment of carbon monoxide (CO) hot-spot impacts, and an assessment of the potential health risks related to the proposed project activities to sensitive receptors.

PROJECT LOCATION AND DESCRIPTION

The 3.48-acre project site is at 1030 East 4th Street in Santa Ana, Orange County, California. The project site consists of Assessor's Parcel Number 398-461-18. The existing project site is currently developed with 52,983 square feet (sq ft) of self-storage uses (total of eight one-story buildings), including an 1,841 sq ft one-story office building and perimeter landscaping. Vehicular access to the project site is currently provided via a single driveway along 4th Street. The regional project location is shown in Figure 1 (attached).

Development of the proposed project would require the demolition of the existing office and one self-storage building and the partial demolition of two self-storage buildings, for the combined total of 16,684 sq ft. All other existing uses on site, including the other self-storage buildings (approximately 36,299 sq ft in total) would remain. The proposed project would replace the demolished buildings with a self-storage building of approximately 91,558 sq ft, including a manager's apartment and rental office. Additionally, the proposed project would provide 15 parking stalls, including four electric vehicle (EV) capable stalls, and two manager's apartment stalls. Under post-development conditions, the total self-storage square footage on site (including the existing

[1] South Coast Air Quality Management District (SCAQMD). 1993. *CEQA Air Quality Handbook*. Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993) (accessed June 2024).

36,299 sq ft of self-storage uses to remain) would be 127,857 sq ft. The proposed project conceptual site plan is shown in Figure 2 (attached). Office and customer access hours would remain the same as with existing conditions. Office hours are currently Mondays through Saturdays, from 9:30 a.m. to 6:00 p.m. (closed on Sundays). Customer access hours are currently Mondays through Sundays, from 6:00 a.m. to 8:00 p.m. The proposed project would also not require any additional employees on site compared to existing operations. Once operational, the proposed project is estimated to generate 108 net new average daily trips (ADT).[2] Furthermore, the proposed project site is currently zoned for Specific Development-84 (SD-84) and Heavy Industrial (M2). The project site is also within the Industrial Overlay (I-OZ) Zone which allows for land use activity and development permitted by existing Light Industrial (M1) and M2 zoning. Per the City's Municipal Code Section 41-489 and 41-472.5, the proposed project would require the approval of a Conditional Use Permit (CUP) to operate on parcels zoned M1 and M2.

Construction would include demolition, site preparation, grading, building construction, paving, and architectural coating activities. Construction of the proposed project is anticipated to commence in November 2025 and extend over a period of approximately 14 months. Based on the preliminary grading plans, the proposed project would require approximately 280 cubic yards (cy) of cut and 720 cy of fill, resulting in a total of 440 cy to be imported on site. Demolition, grading, and building activities would involve the use of standard earthmoving equipment such as large excavators, cranes, and other related equipment. The proposed project would utilize construction equipment that meets the California Air Resources Board (CARB) In-Use Off-Road Diesel-Fueled Fleets Regulation emission standards of Tier 4 Final.

EXISTING LAND USES IN THE PROJECT AREA

For the purposes of this analysis, sensitive receptors are areas of the population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, daycare centers, hospitals, parks, and similar uses that are sensitive to air quality. Impacts on sensitive receptors are of particular concern because those receptors are the population most vulnerable to the effects of air pollution. The project site is surrounded by a mixture of residential and commercial uses. The project site is immediately bounded to the north by 4th Street, to the southeast by industrial uses, and to the northwest by multifamily residential uses. The closest sensitive receptors to the project site are the multifamily residences located immediately west of the project site at approximately 36 feet.

ENVIRONMENTAL SETTING

Air quality is primarily a function of local climate, local sources of air pollution, and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and, for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and are therefore used to determine the boundary of air basins. The proposed project is located in Santa Ana, which is

[2] LSA Associates, Inc. (LSA). 2025. *Project Trip Generation Summary,* Table A. February.

in Orange County and is within the jurisdiction of SCAQMD, which regulates air quality in the South Coast Air Basin (Basin).

The Basin comprises approximately 10,000 square miles and covers all of Orange County and the urban parts of Los Angeles, Riverside, and San Bernardino Counties. The Basin is on a coastal plain with connecting broad valleys and low hills to the east. Regionally, the Basin is bounded by the Pacific Ocean to the southwest and high mountains to the east, forming the inland perimeter.

Both State and federal governments have established health-based ambient air quality standards for six criteria air pollutants: CO, ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead, and suspended particulate matter. In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Two criteria pollutants, O_3 and NO_2, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO_2, and lead are considered local pollutants that tend to accumulate in the air locally.

Air quality monitoring stations are located throughout the nation and are maintained by the local air districts and State air quality regulating agencies. Data collected at permanent monitoring stations are used by the United States Environmental Protection Agency (USEPA) to identify regions as "attainment" or "nonattainment" depending on whether the regions meet the requirements stated in the applicable National Ambient Air Quality Standards (NAAQS). Nonattainment areas are imposed with additional restrictions as required by the USEPA. In addition, different classifications of attainment (e.g., marginal, moderate, serious, severe, and extreme) are used to classify each air basin in the State on a pollutant-by-pollutant basis. The classifications are used as a foundation to create air quality management strategies to improve air quality and comply with the NAAQS. As shown in Table A, the Basin is designated as nonattainment by federal standards for O_3 and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$) and nonattainment by State standards for O_3, particulate matter less than 10 microns in diameter (PM_{10}), and $PM_{2.5}$.

Table A: Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
O_3 1-hour	Nonattainment	N/A
O_3 8-hour	Nonattainment	Extreme Nonattainment
PM_{10}	Nonattainment	Attainment/Maintenance
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Attainment/Maintenance
NO_2	Attainment	Unclassified/Attainment (1-hour) Attainment/Maintenance (Annual)
SO_2	Attainment	Unclassified/Attainment
Lead	Nonattainment[1]	Nonttainment[1]
All Others	Attainment/Unclassified	Attainment/Unclassified

Source 1: NAAQS and CAAQS Attainment Status for South Coast Air Basin (SCAQMD 2016).
Source 2: Nonattainment Areas for Criteria Pollutants (Green Book) (USEPA 2019).
[1] Only the Los Angeles County portion of the South Coast Air Basin is in nonattainment for lead.

CAAQS = California Ambient Air Quality Standards
CO = carbon monoxide
N/A = not applicable
NAAQS = National Ambient Air Quality Standards
NO_2 = nitrogen dioxide
O_3 = ozone
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
SCAQMD = South Coast Air Quality Management District
SO_2 = sulfur dioxide
USEPA = United States Environmental Protection Agency

O_3 levels, as measured by peak concentrations and the number of days over the State 1-hour standard, have declined substantially as a result of aggressive programs by SCAQMD and other regional, State, and federal agencies. The reduction of peak concentrations represents progress in improving public health; however, the Basin still exceeds the State standard for 1-hour and 8-hour O_3 levels. The USEPA lowered the 1997 0.80 parts per million (ppm) national 8-hour ozone standard to 0.75 ppm in 2008 and then to 0.70 ppm on October 1, 2015. The Basin is classified as nonattainment for the 1-hour and 8-hour ozone standards at the State and federal level. From 2021 to 2023, the 1630 W. Pampas Lane station in Anaheim (the closest monitoring station to the project site) recorded the following exceedances of the State and federal 1-hour and 8-hour O_3 standards[3]:

- The federal 8-hour O_3 standard had no exceedances in 2021, 1 in 2022, and 2 in 2023.
- The State 8-hour O_3 standard had no exceedances in 2021, 1 in 2022, and an unknown number of exceedances in 2023.
- The federal 1-hour O_3 standard had no exceedances in the three-year period.
- The State 1-hour O_3 standard had no exceedances in 2021, 1 in 2022, and an unknown number of exceedances in 2023.

National and State standards have also been established for $PM_{2.5}$ over 24-hour and yearly averaging periods. $PM_{2.5}$, because of the small size of individual particles, can be especially harmful to human health. $PM_{2.5}$ is emitted by common combustion sources such as cars, trucks, buses, and power plants, in addition to ground-disturbing activities. On December 17, 2006, the USEPA strengthened the 24-hour $PM_{2.5}$ NAAQS from 65 micrograms per cubic meter ($\mu g/m^3$) to 35 $\mu g/m^3$, and the Basin was subsequently designated "moderate" nonattainment for 2006 24-hour $PM_{2.5}$ NAAQS on December 14, 2009. On February 7, 2024, the USEPA strengthened the NAAQS for $PM_{2.5}$ by revising the primary (health-based) annual standard from 12.0 $\mu g/m^3$ to 9.0 $\mu g/m^3$; however, a new attainment designation has not been issued. The Basin is also considered a nonattainment area for the $PM_{2.5}$ standard at the State level. From 2021 to 2023, the 1630 W. Pampas Lane station (the closest station to the project site monitoring $PM_{2.5}$) recorded the following exceedances of the federal 24-hour $PM_{2.5}$:

- The federal 24-hour $PM_{2.5}$ standard had 10 exceedances in 2021, and no exceedances in 2022 and 2023.

The Basin is classified as a PM_{10} nonattainment area at the State level and was redesignated from serious nonattainment to attainment of the federal PM_{10} standard on July 26, 2013. Because the

[3] California Air Resources Board (CARB). 2023. *iADAM: Air Quality Data Statistics.* Website: https://www.arb.ca.gov/adam/index.html (accessed June 2024)

Basin was redesignated from nonattainment to attainment, a PM_{10} maintenance plan was adopted in 2013 and is required to be updated every 10 years. From 2021 to 2023, the 1630 W. Pampas Lane station in Anaheim (the closest monitoring station to the project site monitoring PM_{10}) recorded no exceedances of the federal PM_{10} standard.

- The State 24-hour PM_{10} standard had 1 exceedance in 2021 and 2022 and an unknown number of exceedances in 2023.

All areas of the Basin have continued to remain below the federal CO standards (35 ppm 1-hour and 9 ppm 8-hour standards) since 2003. The USEPA redesignated the Basin to attainment of the federal CO standards effective June 11, 2017. The Basin is also well below the State CO standards (20 ppm 1-hour CO and 9 ppm 8-hour CO).

REGULATORY SETTING

Applicable federal, State, regional, and local air quality regulations are discussed below.

Federal Regulations

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and set deadlines for their attainment. The CAA Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required for areas of the nation that exceed the standards. Under the CAA, State and local agencies in areas that exceed the national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain California Ambient Air Quality Standards (CAAQS) for CO, O_3, SO_2, and NO_2 by the earliest practical date. The CCAA provides districts with the authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and areawide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

The California Air Resources Board (CARB) is the State's "clean air agency." CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants (TACs), and oversee compliance with air pollution rules and regulations.

Regional Regulations

The proposed project would be required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with best available control measures, so the presence of such dust does not remain visible in the atmosphere beyond the property line of the emissions source. In addition, SCAQMD Rule 403 requires

implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. SCAQMD Rule 1113 limits the volatile organic compound (VOC) content of architectural coatings. Applicable dust suppression techniques from SCAQMD Rule 403 and low VOC content in paints under SCAQMD Rule 1113 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the particulate matter less than 10 microns in size [PM_{10}] component). Compliance with these rules would reduce impacts on nearby sensitive receptors.

South Coast Air Quality Management District Rule 403 Measures

- Water active sites at least two times daily (locations where grading is to occur will be thoroughly watered prior to earthmoving).
- All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least 2 feet of freeboard in accordance with the requirements of California Vehicle Code Section 23114 (freeboard means vertical space between the top of the load and top of the trailer).
- Traffic speeds on all unpaved roads shall be reduced to 15 miles per hour or less.

South Coast Air Quality Management District Rule 1113 Measures

SCAQMD Rule 1113 governs the sale, use, and manufacture of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction and operation of the proposed project. Therefore, all paints and solvents used during construction and operation of the proposed project must comply with SCAQMD Rule 1113.

Local Regulations

City of Santa Ana General Plan

The City of Santa Ana (City) addresses air quality in the Conservation Element of its General Plan.[4] The Conservation Element includes goals and policies that work to protect air resources, improve regional and local air quality, and minimize the impact of climate change. The following policies from the Conservation Element are applicable to the proposed project:

- **Policy CN-1.1: Regional Planning Efforts.** Coordinate air quality planning efforts with local and regional agencies to meet or exceed State and Federal ambient air quality standards in order to educate the community on and protect all residents from the health effects of air pollution.
- **Policy CN-1.4: Development Standards.** Support new development that meets or exceeds standards for energy-efficient building design and site planning.
- **Policy CN-1.5: Sensitive Receptor Decisions**. Study the impacts of stationary and non-stationary emission sources on existing and proposed sensitive uses and opportunities to minimize health and safety risks. Develop and adopt new regulations avoiding the siting of facilities that

[4] City of Santa Ana. 2022. *City of Santa Ana General Plan, Conservation Element*. April. Website: https://general-plan-santa-ana-ca.proudcity.com/conservation-element/ (accessed June 2024).

potentially emit increased pollution near sensitive receptors within environmental justice area boundaries.

- **Policy CN-1.8: Promote Alternative Transportation.** Promote use of alternate modes of transportation in the City of Santa Ana, including pedestrian, bicycling, public transportation, car sharing programs, and emerging technologies.

- **Policy CN-1.12: Sustainable Infrastructure.** Encourage the use of low or zero emission vehicles, bicycles, nonmotorized vehicles, and car-sharing programs by supporting new and existing development that includes sustainable infrastructure and strategies such as vehicle charging stations, drop-off areas for ride-sharing services, secure bicycle parking, and transportation demand management programs.

METHODOLOGY

Construction Emissions

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include demolition, site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance; fuel combustion from mobile heavy-duty, diesel-, and gasoline-powered equipment and portable auxiliary equipment; and worker commute trips.

The California Emissions Estimator Model version 2022.1 (CalEEMod) computer program was used to calculate emissions from on-site construction equipment and from worker and vehicle trips to the site. Construction of the proposed project is anticipated to commence in November 2025 and extend over a period of approximately 14 months, which is included in CalEEmod. To be conservative, this analysis assumes construction overlap between the building construction, paving, and architectural coating phases, which was also included in CalEEMod. The proposed project would include a total of 16,684 sq ft of demolition, which include the existing office building, one self-storage building, and the partial demolition of two self-storage buildings. Based on the preliminary grading plans, the proposed project would require approximately 280 cy of cut and 720 cy of fill, resulting in a net total of 440 cy to be imported on site, which was included in CalEEMod. This analysis assumes the use of Tier 4 Final construction equipment and that the proposed project would comply with SCAQMD Rule 403 measures, which were also included in CalEEMod. All other construction details are not yet known; therefore, default assumptions (e.g., construction worker and truck trips and fleet activities) from CalEEMod were used.

Construction Health Risk Assessment

A construction health risk assessment (HRA), which evaluates construction-period health risk to off-site receptors, was performed for the proposed project, and the analysis is presented below. To estimate the potential cancer risk associated with construction of the proposed project from equipment exhaust (including diesel particulate matter), a dispersion model was used to translate an emission rate from the source location to a concentration at the receptor location of interest (i.e., a nearby residence and worksites). Dispersion modeling varies from a simpler, more

conservative screening-level analysis to a more complex and refined detailed analysis. This refined assessment was conducted using the CARB exposure methodology with the air dispersion modeling performed using the USEPA dispersion model AERMOD. The model provides a detailed estimate of exhaust concentrations based on site and source geometry, source emissions strength, distance from the source to the receptor, and meteorological data.

For the purposes of an HRA, emissions are analyzed for acute health impacts, chronic, and carcinogenic health impacts. A multipathway assessment has been conducted to evaluate the project's emissions during construction following the modeling techniques recommended in the OEHHA *Air Toxic Hot Spots Program Risk Assessment Guidelines*.[5] The analysis herein has been conducted in accordance with SCAQMD requirements for HRAs. CalEEMod was used to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site, which was included in AERMOD. This analysis utilizes a construction start date of November 2025 and a 14-month construction period, consistent with CalEEMod inputs. In addition, this HRA has been conducted using two models: (1) the USEPA AERMOD dispersion model to determine how the TACs would move through the atmosphere after release from sources both on site and along the truck routes; and (2) the CARB's HARP model to translate the pollutant concentrations from AERMOD into individual health risks at the nearby sensitive receptor locations.

Model Assumptions

In order to assess the dispersion of emissions associated with the project, air dispersion modeling was performed using AERMOD. The model is approved by the USEPA when estimating the air quality impacts associated with point and fugitive sources in simple and complex terrain. The model was used to calculate the annual average pollutant concentrations associated with each emitting source. For the purpose of this analysis, each year of construction was modeled separately and the impact to each receptor was summed to estimate the total exposure from construction emissions. Additionally, the starting age is increased for each year of construction. Construction area parameters were based on the project area (in square meters) and a height source of approximately 3 meters.

The AERMOD model requires additional input parameters, including local meteorology. Due to the model's sensitivity to individual parameters (e.g., wind speed, temperature, and direction), the USEPA recommends meteorological data used as input into dispersion models be selected on the basis of relative spatial and temporal conditions that exist in the area of concern. As such, 5 years of meteorological data from SCAQMD's John Wayne International Airport Meteorological Station (the nearest available station) was used to represent local weather conditions and prevailing winds.

[5] OEHHA. 2015. op cit.

CARB's HARP2 model is a tool that assists with the programmatic requirements of the Air Toxics "Hot Spots" Program (AB 2588). HARP2 was used to translate the TAC concentrations from AERMOD into long-term carcinogenic and chronic, and short-term acute health risk levels following the guidance in the SCAQMD and OEHHA risk assessment guidelines. These guidelines specify a minimum set of TAC pathways and HARP2 modeling options for the carcinogenic assessment. To estimate chronic noncancer risks at residential receptors, the "RMP-Derived Method" risk-calculation option was used. Following the OEHHA guidance, an 8-hour chronic noncancer risk was calculated for residential receptors because the project would operate more than 8 hours per day and 5 days per week.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were default rates as presented in the OEHHA guidance document entitled *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*[6] and guidance from SCAQMD.

Operational Emissions

This air quality analysis includes estimating emissions associated with long-term operation of the project. Indirect emissions of criteria pollutants with regional impacts would be emitted by project-generated vehicle trips. In addition, localized air quality impacts (i.e., higher CO concentrations or "hot-spots") near intersections or roadway segments in the project vicinity would also potentially occur due to project-generated vehicle trips.

Consistent with SCAQMD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project. As previously discussed in the Project Location and Description section, the proposed project would construct a self-storage building of approximately 91,558 sq ft and 15 parking stalls. Therefore, the proposed project analysis was conducted using land use codes *Unrefrigerated Warehouse Rail* and *Parking Lot.* Trip generation rates used in CalEEMod for the project were based on the project's trip generation, which identifies that the proposed project would generate 108 net new ADT.[7] When project-specific data were not available, default assumptions from CalEEMod were used to estimate project emissions.

THRESHOLDS OF SIGNIFICANCE

The *State California Environmental Quality Act (CEQA) Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would do any of the following:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is in nonattainment under applicable NAAQS or CAAQS;

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6 OEHHA. 2015. op cit.

7 LSA Associates, Inc. (LSA). 2025. *Project Trip Generation Summary,* Table A. February.

- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) affecting a substantial number of people.

Certain air districts (e.g., SCAQMD) have created guidelines and requirements to conduct air quality analysis. The SCAQMD's current guidelines, the *CEQA Air Quality Handbook*[8] with associated updates, were followed in this assessment of air quality impacts for the proposed project.

Regional Emissions Thresholds

SCAQMD has established daily emissions thresholds for construction and operation of proposed projects in the Basin. The emission thresholds were established based on the attainment status of the Basin with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emission thresholds are regarded as conservative and would overstate an individual project's contribution to health risks. Table B lists the CEQA significance thresholds for construction and operational emissions established for the Basin.

Table B: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold (lbs/day)					
	VOCs	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X
Construction	75	100	550	150	55	150
Operations	55	55	550	150	55	150

Source: SCAQMD Air Quality Significance Thresholds (April 2019).
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compound

Projects in the Basin with construction- or operation-related emissions that exceed any of their respective emission thresholds would be considered significant under SCAQMD guidelines. These thresholds, which the SCAQMD developed and which apply throughout the Basin, apply as both project and cumulative thresholds. If a project exceeds these standards, it is considered to have a project-specific and a cumulative impact.

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the Basin, a project would be considered to have a

[8] South Coast Air Quality Management District (SCAQMD). 1993. *CEQA Air Quality Handbook.* Website: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ceqa-air-quality-handbook-(1993) (accessed June 2024).

significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm; and
- California State 8-hour CO standard of 9 ppm.

Health Risk Thresholds

The following limits for the maximum individual cancer risk (MICR) and noncancer acute and chronic Hazard Index (HI) from project emissions of TACs are considered appropriate for use in determining the health risk for projects in the Basin:

- **MICR:** MICR is the estimated probability of a maximally exposed individual (MEI) contracting cancer as a result of exposure to TACs over a period of 30 years for adults and 9 years for children in residential locations and over a period of 25 years for workers. The MICR calculations include multipathway consideration, when applicable.

  The cumulative increase in MICR that is the sum of the calculated MICR values for all TACs would be considered significant if it would result in an increased MICR greater than 10 in 1 million (1×10^{-5}) at any receptor location.

- **Chronic HI:** Chronic HI is the ratio of the estimated long-term level of exposure to a TAC for a potential MEI to its chronic reference exposure level. The chronic HI calculations include multipathway considerations, when applicable.

  The project would be considered significant if the cumulative increase in total chronic HI for any target organ system would exceed 1.0 at any receptor location.

- **Acute HI:** Acute HI is the ratio of the estimated maximum 1-hour concentration of a TAC for a potential MEI to its acute reference exposure level.

  The project would be considered significant if the cumulative increase in total acute HI for any target organ system would exceed 1.0 at any receptor location.

The SCAQMD's *CEQA Air Quality Handbook*[9] states that emissions of TACs are considered significant if an HRA shows an increased risk of greater than 10 in 1 million. Based on guidance from SCAQMD in the document *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis,*[10] for the purposes of this analysis, the threshold of 10 in 1 million was used as the cancer risk threshold for the proposed project.

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9 SCAQMD. 1993. *CEQA Air Quality Handbook* (currently under revision).

10 SCAQMD. 2003. *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis*. August.

Localized Impacts Analysis

SCAQMD published its *Final Localized Significance Threshold Methodology* in July 2008, recommending that all air quality analyses include an assessment of air quality impacts to nearby sensitive receptors.[11] This guidance was used to analyze potential localized air quality impacts associated with construction of the proposed project. Localized significance thresholds (LSTs) are developed based on the size or total area of the emission source, the ambient air quality in the source receptor area (SRA), and the distance to the project. Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to adverse air quality.

LSTs are based on the ambient concentrations of that pollutant within the project SRA and the distance to the nearest sensitive receptor. For the proposed project, the appropriate SRA for the LST is the Central Orange County area (SRA 17). SCAQMD provides LST screening tables for 25-, 50-, 100-, 200-, and 500-meter source-receptor distances. As identified above, the closest sensitive receptors to the project site are the multifamily residences located immediately west of the project site at approximately 36 feet. In cases where receptors may be closer than 82 feet (25 meters), any distances within the 82-foot (25-meter) buffer zone can be used. As such, the minimum distance of 25 meters was used for purposes of the LST assessment. The maximum number of acres disturbed is determined on the construction equipment list (including type of equipment and number of equipment used) assumed for the day of construction activity and maximum emissions. Based on the anticipated construction equipment, it is assumed that the maximum daily disturbed acreage for the proposed project would be 3.0 acres.[12] Therefore, the LSTs for a 3.0-acre site at 25 meters were derived by interpolation using the project's SRA and mass rate look up tables developed by the SCAQMD. The proposed project is 3.48-acres; therefore, the maximum operation daily LST is based on the 3.5-acre threshold derived by interpolation for the proposed project. Table C lists the emissions thresholds that apply during project construction and operation.

Table C: SCAQMD Localized Significance Thresholds

Emissions Source	Pollutant Emissions Threshold (lbs/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Construction (3.0-acres, 25-meter distance)	138.0	894.0	8.3	5.0
Operations (3.5-acres, 25-meter distance)	149.0	984.0	2.5	1.5

Source: Final Localized Significance Threshold Methodology (SCAQMD, July 2008).
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
SCAQMD = South Coast Air Quality Management District

11 SCAQMD. 2008. *Final Localized Significance Threshold Methodology*. July.

12 SCAQMD. n.d. *Fact Sheet for Applying CalEEMod to Localized Significance Thresholds*. Website: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf (accessed June 2024).

IMPACT ANALYSIS

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from project-related vehicular trips and due to energy consumption (e.g., electricity) by the proposed land uses.

Consistency with Applicable Air Quality Plans

Air quality plans are based on projections from local General Plans. A consistency determination plays an essential role in local agency project review by linking local planning and unique individual projects to the air quality plans. A consistency determination fulfills the CEQA goal of fully informing local agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are addressed.

The proposed project would include the demolition of 16,684 sq ft of existing uses to construct a total of 91,558 sq ft self-storage space. Under post-development conditions, the total self-storage square footage on site (including the existing 36,299 sq ft of self-storage uses to remain) would be 127,857sq ft. The proposed project is not considered a project of statewide, regional, or area-wide significance (e.g., large-scale projects such as airports, electrical generating facilities, petroleum and gas refineries, residential developments of more than 500 dwelling units, and shopping centers or business establishments employing more than 1,000 persons or encompassing more than 500,000 square feet of floor space) as defined in the California Code of Regulations (Title 14, Division 6, Chapter 3, Article 13, §15206(b)). Because the proposed project would not be defined as a regionally significant project under CEQA, it does not meet Southern California Association of Governments' (SCAG) Intergovernmental Review criteria.

The City's General Plan is consistent with the SCAG Regional Comprehensive Plan Guidelines and the SCAQMD 2022 Air Quality Management Plan (AQMP). Pursuant to the methodology provided in the SCAQMD *CEQA Air Quality Handbook*, consistency with the Basin 2022 AQMP is affirmed when a project (1) would not increase the frequency or severity of an air quality standards violation or cause a new violation, and (2) is consistent with the growth assumptions in the AQMP. Consistency review is presented as follows:

1. The project would result in short-term construction and long-term operational pollutant emissions that are all less than the CEQA significance emissions thresholds established by SCAQMD, as demonstrated below; therefore, the project would not result in an increase in the frequency or severity of an air quality standards violation or cause a new air quality standards violation.

2. The *CEQA Air Quality Handbook* indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and significant projects. Significant projects include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities. As described in the Project Location and Description section, the proposed project site is currently zoned for SD-84 and M2. The project site is also within the I-OZ which allows for land use activity and development permitted by existing M1 and M2 zoning. Per City Municipal Code Section 41-489 and 41-472.5, the proposed project would require the approval of a Conditional

Use Permit (CUP) to operate on parcels zoned M1 and M2. Therefore, with approval of the CUP, the proposed project would be consistent with the City zoning code and the I-OZ and M2 zoning designation.

To determine the proposed project's consistency with the 2022 AQMP, the project must be consistent with the AQMP growth assumptions, which are based, in part, on assumptions made by local planning agencies in the SCAG's Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) regarding population, housing, and growth trends. According to SCAG's 2024–2050 RTP/SCS, the City's households and employment are forecast to increase by approximately 12,000 households and 4,700 jobs, respectively, between 2019 and 2050 and would total 88,600 households and 172,100 jobs by 2050.[13] The proposed project would include the addition of 91,558 sq ft of self-storage space. Based on information provided by the project applicant, the proposed project would not require any additional employees on site compared to existing operations. Therefore, the project's labor demand would not substantially increase employment projections in Santa Ana. As such, the project would not conflict with SCAG's growth assumptions for new job growth in the region as identified in the RTP/SCS.

Additionally, as described above, based on the proposed project size (an increase in 91,558 sq ft), the proposed project is not considered a project of statewide, regional, or areawide significance. Because the proposed project would not be defined as a regionally significant project under CEQA, it does not meet the SCAG Intergovernmental Review criteria.

Based on the consistency analysis presented above, the proposed project would be consistent with the regional AQMP.

Criteria Pollutant Analysis

The Basin is currently designated as nonattainment for the federal and State standards for O_3 and $PM_{2.5}$. In addition, the Basin is in nonattainment for the PM_{10} standard. The Basin's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of an ambient air quality standard. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, SCAQMD considered the emissions levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Therefore, additional analysis to assess cumulative impacts is not necessary. The following analysis assesses the

[13] Southern California Association of Governments (SCAG). 2024. Connect SoCal 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). Website: https://scag.ca.gov/sites/main/files/file-attachments/23-2987-tr-demographics-growth-forecast-final-040424.pdf?1712261839 (accessed June 2024).

potential project-level air quality impacts associated with construction and operation of the proposed project.

Construction Emissions

During construction, short-term degradation of air quality may occur due to the release of particulate matter emissions (i.e., fugitive dust) generated by demolition, grading, building construction, paving, and other activities. Emissions from construction equipment are also anticipated and would include CO, nitrogen oxides (NO_X), VOCs, directly emitted $PM_{2.5}$ or PM_{10}, and TACs such as diesel exhaust particulate matter.

Project construction activities would include demolition, grading, site preparation, building construction, architectural coating, and paving activities. Construction-related effects on air quality from the proposed project would be greatest during the site preparation phase due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and amount of operating equipment. Larger dust particles would settle near the source, whereas fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. SCAQMD has established Rule 403: Fugitive Dust, which would require the project applicant to implement measures that would reduce the amount of particulate matter generated during the construction period. The Rule 403 measures that were incorporated in this analysis include:

- Water active sites at least twice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114.
- Reduce traffic speeds on all unpaved roads to 15 miles per hour or less.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur oxides (SO_X), NO_x, VOCs, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using CalEEMod and are summarized in Table D. CalEEMod output sheets are provided in Attachment A.

Table D: Short-Term Regional Construction Emissions

Construction Phase	Maximum Daily Regional Pollutant Emissions (lbs/day)							
	VOCs	NO_X	CO	SO_X	Fugitive PM_{10}	Exhaust PM_{10}	Fugitive $PM_{2.5}$	Exhaust $PM_{2.5}$
Demolition	0.4	5.2	18.9	<0.1	1.0	0.1	0.2	0.1
Site Preparation	0.7	3.4	36.0	0.1	8.5	0.1	4.1	0.1
Grading	0.3	2.2	16.0	<0.1	3.0	0.1	1.4	0.1
Building Construction	0.4	4.4	15.0	<0.1	0.6	<0.1	0.2	<0.1
Paving	0.4	1.8	9.0	<0.1	0.2	<0.1	<0.1	<0.1
Architectural Coating	7.2	0.7	1.3	<0.1	0.1	<0.1	<0.1	<0.1
Peak Daily Emissions	**7.6**	**5.2**	**36.0**	**0.1**	**8.6**		**4.2**	
SCAQMD Threshold	**75.0**	**100.0**	**550.0**	**150.0**	**150.0**		**55.0**	
Significant?	**No**	**No**	**No**	**No**	**No**		**No**	

Source: Compiled by LSA (September 2024).
Note: Some values may not appear to add correctly due to rounding. Maximum emissions of VOCs occurred during the overlapping building construction and architectural coating phases.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

As shown in Table D, construction emissions associated with the project would not exceed the daily SCAQMD thresholds for VOCs, NO_x, CO, SO_X, $PM_{2.5}$, or PM_{10} emissions. Therefore, construction of the proposed project would not result in emissions that would result in a cumulatively considerable net increase of any criteria pollutant for which the project is in nonattainment under an applicable NAAQS or CAAQS.

Operational Air Quality Impacts

Long-term air pollutant emissions associated with operation of the proposed project include emissions from area, energy, and mobile sources. Area-source emissions include architectural coatings, consumer products, and landscaping. Energy-source emissions result from activities in buildings that use natural gas.

Mobile-source emissions are from vehicle trips associated with operation of the project. Area-source emissions consist of direct sources of air emissions at the project site, including architectural coatings, consumer products, and use of landscape maintenance equipment.

PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other particulate matter emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles.

Long-term operational emissions associated with the proposed project were calculated using CalEEMod. Table E provides the proposed project's estimated operational emissions. CalEEMod output sheets are provided as Attachment B.

Table E: Project Operational Emissions

Emission Type	Pollutant Emissions (lbs/day)					
	VOCs	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Mobile Sources	0.3	0.2	2.5	<0.1	0.6	0.2
Area Sources	2.9	<0.1	4.0	<0.1	<0.1	<0.1
Energy Sources	<0.1	0.6	0.5	<0.1	0.1	0.1
Total Project Emissions	**3.2**	**0.8**	**7.0**	**<0.1**	**0.7**	**0.3**
SCAQMD Threshold	55.0	55.0	550.0	150.0	150.0	55.0
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
Note: Some values may not appear to add correctly due to rounding.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

The results shown in Table E indicate the proposed project would not exceed the significance criteria for daily VOCs, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$ emissions. Therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable NAAQS or CAAQS.

Long-Term Microscale (CO Hot Spot) Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the vicinity of the proposed project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited; under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at the 1630 W. Pampas Lane station (the closest station to the project site), showed a highest recorded 1-hour concentration of 2.5 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.6 ppm (the State standard is 9 ppm) during the past 3 years.[14] The highest CO concentrations would normally occur during peak

[14] United States Environmental Protection Agency (USEPA). 2023. Outdoor Air Quality Data.

traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

The proposed project is expected to generate 108 net new ADT, with 7 net new trips occurring in the a.m. peak hour and 11 net new trips occurring in the p.m. peak hour.[15] As the proposed project would not generate 100 or more a.m. or p.m. peak-hour trips, it did not meet the criteria for an evaluation of study area intersection or roadway segment levels of service. Therefore, given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any intersections, project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the project would not result in any project-related impacts on CO concentrations.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as people who have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential dwelling units. As identified above, the closest sensitive receptors to the project site are the multifamily residences located immediately west of the project site at approximately 36 feet. The nearest worker receptor to the project site is located immediately east within 50 feet. The nearest school receptor to the project site is located southeast at approximately 1,800 feet from the project site's southern boundary.

A construction HRA, which evaluates construction-period health risk to off-site receptors, was performed for the proposed project. Table F, below, identifies the results of the analysis assuming the use of Tier 4 Final construction equipment as proposed by the project.[16] Model snapshots of the sources are shown in Appendix C.

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15 LSA Associates, Inc. (LSA). 2025. *Project Trip Generation Summary,* Table A. February.

16 This analysis was conducted assuming that there would be 100,600 sf of building construction, whereas the proposed project now includes 91,558 sf of building construction. Therefore, this analysis provides a conservative estimate of the potential health risks related to construction activities associated with the proposed project.

Table F: Health Risks from Project Construction to Off-Site Receptors

Location	Carcinogenic Inhalation Health Risk in One Million	Chronic Inhalation Hazard Index	Acute Inhalation Hazard Index
Worker Receptor Risk	0.12	0.007	0.000
Residential Receptor Risk	1.39	0.002	0.000
School Sensitive Receptor	0.001	<0.001	0.000
SCAQMD Significance Threshold	**10.0 in one million**	**1.0**	**1.0**
Significant?	**No**	**No**	**No**

Source: LSA (September 2024).
SCAQMD = South Coast Air Quality Management District

As shown in Table F, the maximum cancer risk for the residential receptor MEI would be 1.39 in one million, which would not exceed the SCAQMD cancer risk threshold of 10 in one million. The worker receptor risk would be lower at 0.12 in one million and the school receptor risk would be 0.001 in one million, which would also not exceed the SCAQMD cancer risk thresholds. The total chronic hazard index would be 0.002 for the residential receptor MEI, 0.007 for the worker receptor MEI, and less than 0.001 for the school receptor MEI, which is below the threshold of 1.0. In addition, the total acute hazard index would be nominal (0.000), which would also not exceed the threshold of 1.0. Therefore, construction of the proposed project would not exceed SCAQMD thresholds and would not expose nearby sensitive receptors to substantial pollutant concentrations. No significant health risk would occur from project construction emissions.

Once the proposed project is constructed, the proposed project would not be a source of substantial emissions. Therefore, implementation of the proposed project would not result in new sources of TACs. Therefore, the project would not expose sensitive receptors to substantial levels of TACs.

Localized Significance Analysis

An LST analysis was completed to show the construction and operational impacts at 25 meters to the nearest sensitive receptors to the project site in SRA 17 based on a 3.0-acre daily disturbance area for construction and a 3.5-acre project site for operation. Tables G and H show the results of the LST analysis during project construction and operation, respectively.

Table G: Project Localized Construction Emissions

Source	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	4.3	35.2	7.7	3.9
Localized Significance Threshold	**138.0**	**894.0**	**8.3**	**5.0**
Significant?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
Note: Source Receptor Area 17, based on a 3.0-acre construction disturbance daily area, at a distance of 25 meters from the project boundary.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

Table H: Project Localized Operational Emissions

Source	Pollutant Emissions (lbs/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	0.6	4.6	0.1	0.1
Localized Significance Thresholds	**149.0**	**984.0**	**2.5**	**1.5**
Significant?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
Note: Source Receptor Area 17, based on a 3.5-acre operational project site, at a distance of 25 meters from the project boundary.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size

By design, the localized impact analysis only includes on-site sources; however, the CalEEMod outputs do not separate on-site and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions detailed in Table H assume all area- and energy-source emissions would occur on site, and 5 percent of the project-related new mobile sources (which is an estimate of the amount of project-related on-site vehicle travel) would occur on site. Considering the total trip length included in CalEEMod, the 5 percent assumption is conservative. Table H indicates the localized operational emissions would not exceed the LSTs at nearby residences. Therefore, the proposed operational activity would not result in a locally significant air quality impact.

As detailed in Tables G and H, the emission levels indicate that the project would not exceed SCAQMD LSTs during project construction or operation. The project's peak operational on-site NO_X emissions are approximately less than 1 pound per day. Due to the small size of the proposed project in relation to the overall Basin, the level of emissions is not sufficiently high to use a regional modeling program to correlate health effects on a Basin-wide level. On a regional scale, the quantity of emissions from the project is incrementally minor. Because the SCAQMD has not identified any other methods to quantify health impacts from small projects, and due to the size of the project, it is speculative to assign any specific health effects to small project-related emissions. However, based on this localized analysis, the proposed project would not expose sensitive receptors to substantial pollutant concentrations. Therefore, the project would not expose sensitive receptors to substantial levels of pollutant concentrations.

Odors

Heavy-duty equipment on the project site during construction would emit odors, primarily from equipment exhaust. However, the construction activity would cease after individual construction is completed. No other sources of objectionable odors have been identified for the proposed project.

SCAQMD Rule 402 regarding nuisances states: "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property." The proposed uses are not anticipated to emit any objectionable odors. Therefore, the proposed project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

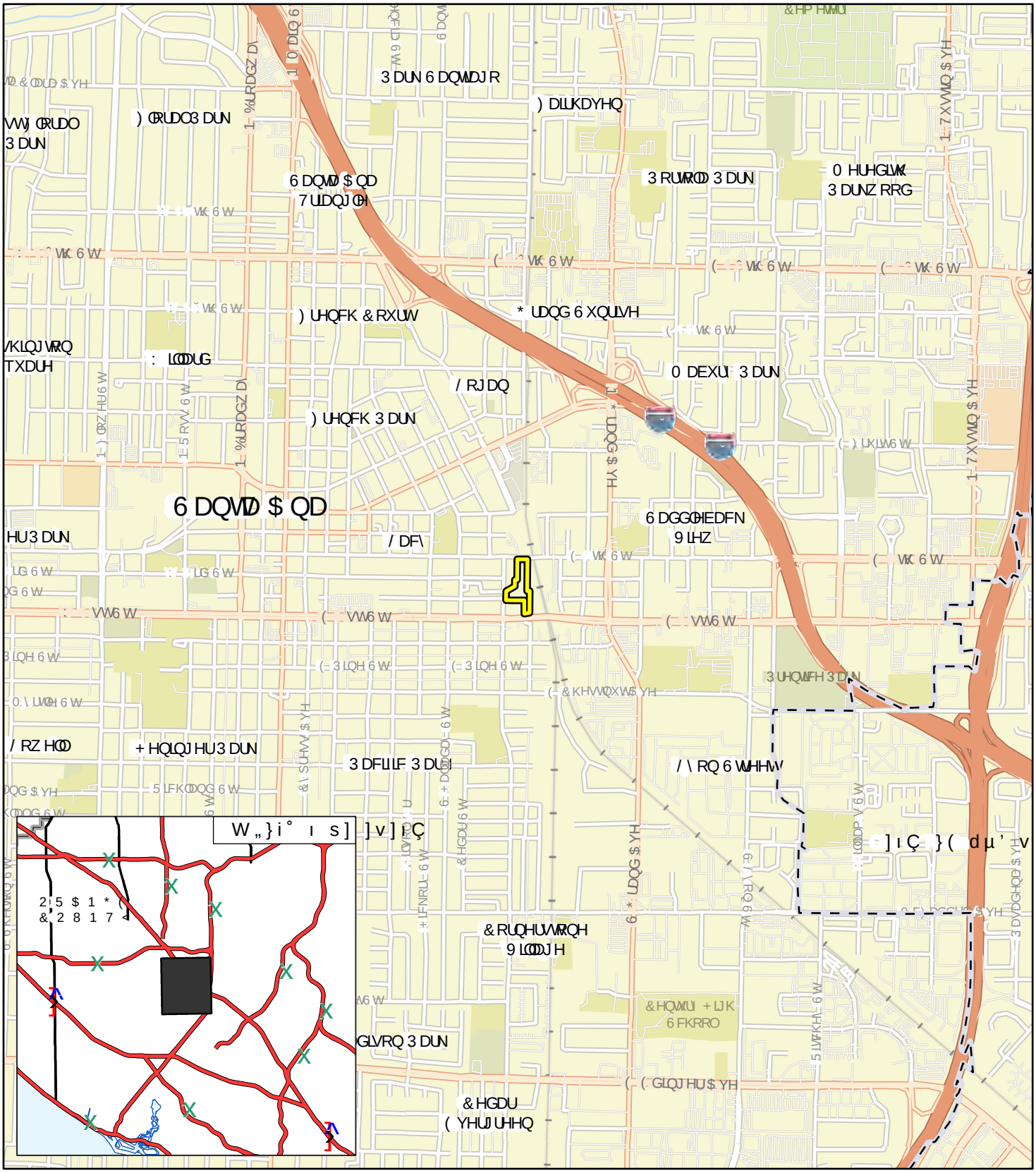
CONCLUSION

Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed SCAQMD thresholds of significance. Compliance with SCAQMD Rule 403: Fugitive Dust would further reduce construction dust impacts. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also be consistent with the 2022 AQMP and would also not result in objectionable odors affecting a substantial number of people.

Attachments: A—Figure 1: Project and Regional Location
Figure 2: Conceptual Site Plan
B—CalEEMod Output Files
C—Construction HRA

ATTACHMENT A

FIGURES 1 & 2



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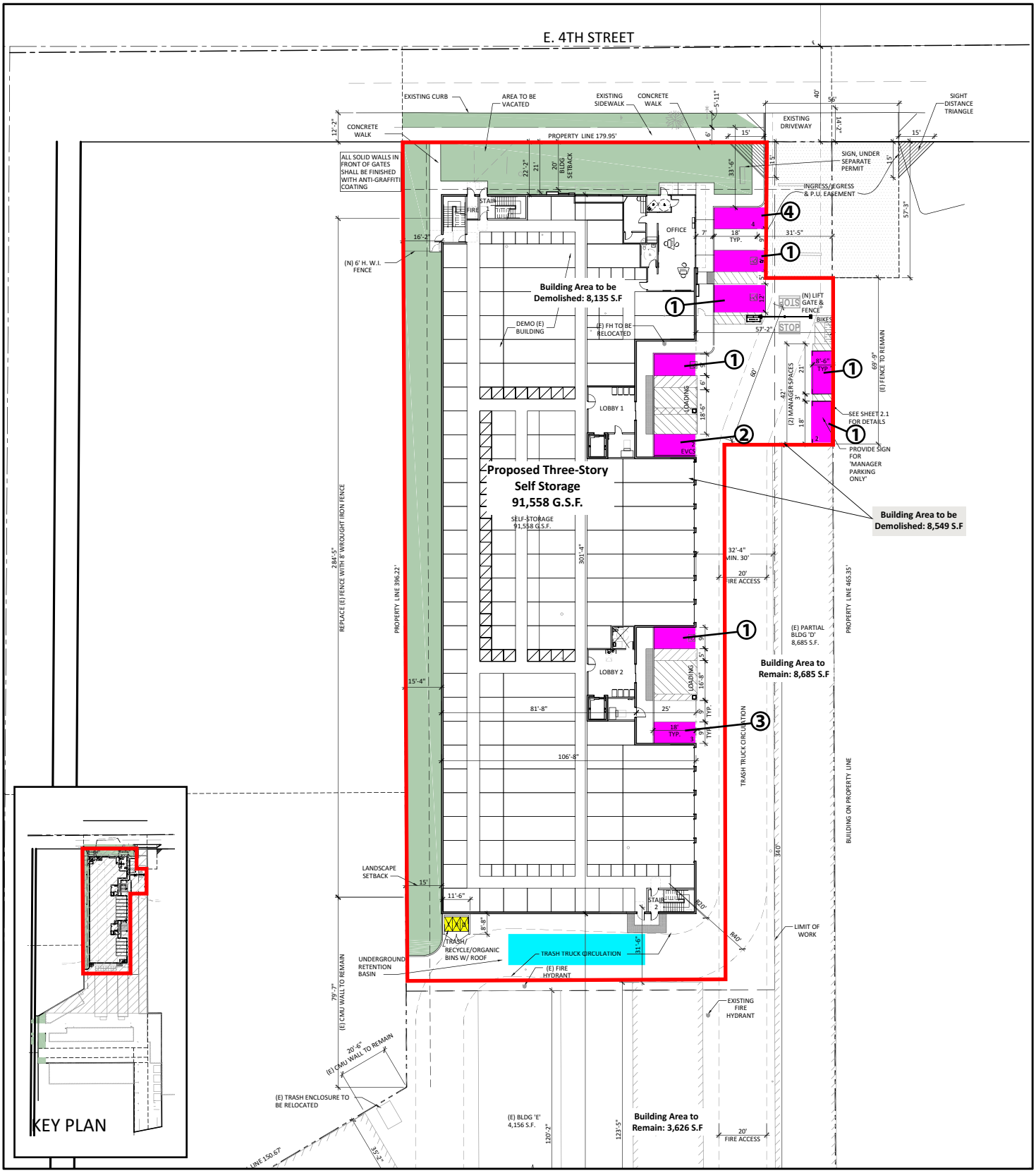

LSA

LEGEND

- Project Site
- Proposed Parking Stalls On-Site (15 Total)
- Trash Enclosure
- Underground Retention Basin

0 30 60

FEET

SOURCE: KSP Studios

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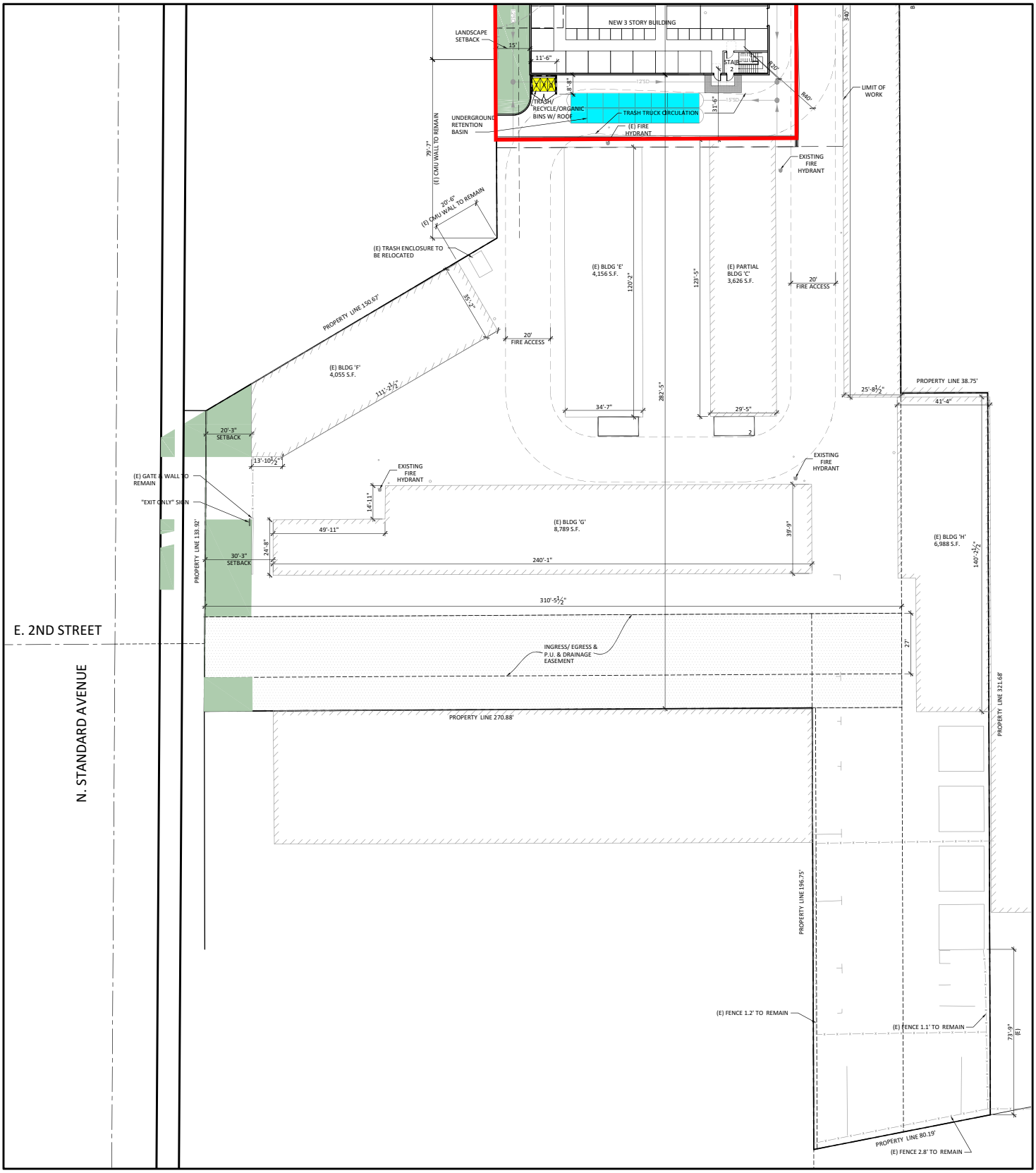
FIGURE 2

Page 1 of 2

Extra Space Storage 4th Street

Conceptual Site Plan



LSA

LEGEND

- Project Site
- Trash Enclosure
- Underground Retention Basin

0 30 60

FEET

SOURCE: KSP Studios

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FIGURE 2

Extra Space Storage 4th Street

Conceptual Site Plan

ATTACHMENT B

CALEEMOD OUTPUT FILES

4th Street Extra Space Storage Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	4th Street Extra Space Storage
Construction Start Date	11/3/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	1030 E 4th St, Santa Ana, CA 92701, USA
County	Orange
City	Santa Ana
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5982
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-Rail	91.6	1000sqft	2.10	91,558	10,422	—	—	—

Parking Lot	16.0	Space	1.14	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.62	5.00	16.4	0.03	0.04	0.73	0.78	0.04	0.18	0.22	—	3,406	3,406	0.13	0.11	3,444
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.62	5.18	36.0	0.06	0.13	8.48	8.61	0.13	4.05	4.18	—	7,040	7,040	0.28	0.14	7,066
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.50	3.17	10.6	0.02	0.03	0.46	0.49	0.03	0.17	0.18	—	2,216	2,216	0.08	0.07	2,240
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.58	1.93	< 0.005	0.01	0.08	0.09	0.01	0.03	0.03	—	367	367	0.01	0.01	371

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	7.62	5.00	16.4	0.03	0.04	0.73	0.78	0.04	0.18	0.22	—	3,406	3,406	0.13	0.11	3,444
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.70	5.18	36.0	0.06	0.13	8.48	8.61	0.13	4.05	4.18	—	7,040	7,040	0.28	0.14	7,066
2026	7.62	5.04	16.1	0.03	0.05	2.99	3.04	0.05	1.39	1.44	—	3,377	3,377	0.13	0.11	3,412
2027	7.23	0.67	1.29	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	227	227	0.01	< 0.005	229
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.05	0.45	2.55	< 0.005	0.01	0.38	0.39	0.01	0.17	0.18	—	504	504	0.02	0.01	508
2026	2.50	3.17	10.6	0.02	0.03	0.46	0.49	0.03	0.11	0.14	—	2,216	2,216	0.08	0.07	2,240
2027	0.11	0.01	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.58	3.58	< 0.005	< 0.005	3.60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.01	0.08	0.47	< 0.005	< 0.005	0.07	0.07	< 0.005	0.03	0.03	—	83.4	83.4	< 0.005	< 0.005	84.1
2026	0.46	0.58	1.93	< 0.005	0.01	0.08	0.09	0.01	0.02	0.03	—	367	367	0.01	0.01	371
2027	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	0.60

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.21	0.86	6.98	0.01	0.06	0.62	0.67	0.06	0.16	0.21	87.0	4,261	4,348	9.07	0.15	7,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.55	0.85	2.84	0.01	0.05	0.62	0.67	0.05	0.16	0.21	87.0	4,219	4,306	9.07	0.15	7,017
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.00	0.87	5.62	0.01	0.06	0.61	0.66	0.05	0.15	0.21	87.0	4,237	4,324	9.07	0.15	7,036
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.55	0.16	1.02	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	14.4	702	716	1.50	0.02	1,165

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.32	0.21	2.48	0.01	< 0.005	0.62	0.62	< 0.005	0.16	0.16	—	654	654	0.03	0.03	664
Area	2.85	0.03	3.98	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.4	16.4	< 0.005	< 0.005	16.4
Energy	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	3,379	3,379	0.23	0.02	3,391
Water	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Waste	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Total	3.21	0.86	6.98	0.01	0.06	0.62	0.67	0.06	0.16	0.21	87.0	4,261	4,348	9.07	0.15	7,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.32	0.23	2.32	0.01	< 0.005	0.62	0.62	< 0.005	0.16	0.16	—	629	629	0.03	0.03	638
Area	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	3,379	3,379	0.23	0.02	3,391
Water	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Waste	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Total	2.55	0.85	2.84	0.01	0.05	0.62	0.67	0.05	0.16	0.21	87.0	4,219	4,306	9.07	0.15	7,017
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.31	0.23	2.37	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	636	636	0.03	0.03	645
Area	2.65	0.02	2.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.2	11.2	< 0.005	< 0.005	11.3
Energy	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	3,379	3,379	0.23	0.02	3,391
Water	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Waste	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Total	3.00	0.87	5.62	0.01	0.06	0.61	0.66	0.05	0.15	0.21	87.0	4,237	4,324	9.07	0.15	7,036
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.04	0.43	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	105	105	0.01	< 0.005	107
Area	0.48	< 0.005	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.86	1.86	< 0.005	< 0.005	1.86
Energy	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	559	559	0.04	< 0.005	561
Water	—	—	—	—	—	—	—	—	—	—	6.72	35.0	41.7	0.69	0.02	63.9
Waste	—	—	—	—	—	—	—	—	—	—	7.68	0.00	7.68	0.77	0.00	26.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	404
Total	0.55	0.16	1.02	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	14.4	702	716	1.50	0.02	1,165

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	4.26	17.5	0.03	0.05	—	0.05	0.05	—	0.05	—	2,918	2,918	0.12	0.02	2,929

Demolitio	—	—	—	—	—	0.53	0.53	—	0.08	0.08	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.23	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	160	160	0.01	< 0.005	160
Demolitio n	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.5	26.5	< 0.005	< 0.005	26.6
Demolitio n	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.97	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	253	253	< 0.005	0.01	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.84	0.36	< 0.005	0.01	0.17	0.18	0.01	0.05	0.06	—	670	670	0.05	0.11	703
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	14.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	36.7	36.7	< 0.005	0.01	38.6

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.32	2.32	< 0.005	< 0.005	2.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.07	6.07	< 0.005	< 0.005	6.39

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	3.35	35.2	0.06	0.13	—	0.13	0.13	—	0.13	—	6,850	6,850	0.28	0.06	6,874
Dust From Material Movement	—	—	—	—	—	8.29	8.29	—	4.01	4.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.09	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	188	188	0.01	< 0.005	188
Dust From Material Movement	—	—	—	—	—	0.23	0.23	—	0.11	0.11	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.02	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	31.2
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.06	0.73	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	< 0.005	0.01	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.26	5.26	< 0.005	< 0.005	5.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.87	0.87	< 0.005	< 0.005	0.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	1.86	15.2	0.02	0.05	—	0.05	0.05	—	0.05	—	2,596	2,596	0.11	0.02	2,605
Dust From Material Movement	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	86.4	86.4	< 0.005	< 0.005	86.7
Dust From Material Movement	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	14.3
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.61	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	158	158	< 0.005	0.01	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.32	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	256	256	0.02	0.04	269
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.33	5.33	< 0.005	< 0.005	5.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.51	8.51	< 0.005	< 0.005	8.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	0.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.41	1.41	< 0.005	< 0.005	1.48

3.7. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	1.86	15.2	0.02	0.05	—	0.05	0.05	—	0.05	—	2,597	2,597	0.11	0.02	2,606
Dust From Material Movement	—	—	—	—	—	2.76	2.76	—	1.34	1.34	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.2	10.2	< 0.005	< 0.005	10.2
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.68	1.68	< 0.005	< 0.005	1.69
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.57	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	155	155	< 0.005	0.01	157
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.31	0.13	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	251	251	0.02	0.04	264
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.61	0.61	< 0.005	< 0.005	0.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.98	0.98	< 0.005	< 0.005	1.03
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	0.17

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	3.74	12.8	0.02	0.04	—	0.04	0.04	—	0.04	—	2,201	2,201	0.09	0.02	2,208
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	3.74	12.8	0.02	0.04	—	0.04	0.04	—	0.04	—	2,201	2,201	0.09	0.02	2,208
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	2.46	8.39	0.02	0.03	—	0.03	0.03	—	0.03	—	1,447	1,447	0.06	0.01	1,452
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.45	1.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	240	240	0.01	< 0.005	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	2.03	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	501	501	0.01	0.02	508
Vendor	0.01	0.48	0.24	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	471	471	0.02	0.07	492
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	1.75	0.00	0.00	0.50	0.50	0.00	0.12	0.12	—	477	477	0.01	0.02	482
Vendor	0.01	0.50	0.25	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	471	471	0.02	0.07	491
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	1.19	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	318	318	< 0.005	0.01	322
Vendor	0.01	0.33	0.16	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	310	310	0.02	0.04	323
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.22	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	52.6	52.6	< 0.005	< 0.005	53.3
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	51.2	51.2	< 0.005	0.01	53.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.77	8.32	0.01	0.02	—	0.02	0.02	—	0.02	—	1,244	1,244	0.05	0.01	1,248
Paving	0.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	51.1	51.1	< 0.005	< 0.005	51.3
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.46	8.46	< 0.005	< 0.005	8.49
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.68	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	186	186	< 0.005	0.01	188
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.74	7.74	< 0.005	< 0.005	7.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	1.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	134
Architectural Coatings	7.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	134
Architectural Coatings	7.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.20	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	41.3	41.3	< 0.005	< 0.005	41.4
Architectural Coatings	2.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.83	6.83	< 0.005	< 0.005	6.86
Architectural Coatings	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	100	100	< 0.005	< 0.005	102
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.35	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	95.3	95.3	< 0.005	< 0.005	96.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.9	29.9	< 0.005	< 0.005	30.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.95	4.95	< 0.005	< 0.005	5.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	0.96	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	134
Architectural Coatings	7.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.09	2.09	< 0.005	< 0.005	2.10
Architectural Coatings	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.35	0.35	< 0.005	< 0.005	0.35
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.33	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	93.7	93.7	< 0.005	< 0.005	94.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.49	1.49	< 0.005	< 0.005	1.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	0.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	0.32	0.21	2.48	0.01	< 0.005	0.62	0.62	< 0.005	0.16	0.16	—	654	654	0.03	0.03	664
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.32	0.21	2.48	0.01	< 0.005	0.62	0.62	< 0.005	0.16	0.16	—	654	654	0.03	0.03	664
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	0.32	0.23	2.32	0.01	< 0.005	0.62	0.62	< 0.005	0.16	0.16	—	629	629	0.03	0.03	638
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.32	0.23	2.32	0.01	< 0.005	0.62	0.62	< 0.005	0.16	0.16	—	629	629	0.03	0.03	638
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	0.06	0.04	0.43	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	105	105	0.01	< 0.005	107
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.06	0.04	0.43	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	105	105	0.01	< 0.005	107

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	2,581	2,581	0.16	0.02	2,590
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	63.4	63.4	< 0.005	< 0.005	63.6
Total	—	—	—	—	—	—	—	—	—	—	—	2,644	2,644	0.16	0.02	2,654
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	2,581	2,581	0.16	0.02	2,590
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	63.4	63.4	< 0.005	< 0.005	63.6
Total	—	—	—	—	—	—	—	—	—	—	—	2,644	2,644	0.16	0.02	2,654
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	427	427	0.03	< 0.005	429
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	10.5	10.5	< 0.005	< 0.005	10.5
Total	—	—	—	—	—	—	—	—	—	—	—	438	438	0.03	< 0.005	439

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	735	735	0.07	< 0.005	737
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	735	735	0.07	< 0.005	737
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	735	735	0.07	< 0.005	737
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.62	0.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	735	735	0.07	< 0.005	737
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	122	122	0.01	< 0.005	122
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Total	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	122	122	0.01	< 0.005	122

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.65	0.03	3.98	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.4	16.4	< 0.005	< 0.005	16.4
Total	2.85	0.03	3.98	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.4	16.4	< 0.005	< 0.005	16.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.08	< 0.005	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.86	1.86	< 0.005	< 0.005	1.86
Total	0.48	< 0.005	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.86	1.86	< 0.005	< 0.005	1.86

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	40.6	211	252	4.17	0.10	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	6.72	35.0	41.7	0.69	0.02	63.9

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	6.72	35.0	41.7	0.69	0.02	63.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	46.4	0.00	46.4	4.64	0.00	162
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	7.68	0.00	7.68	0.77	0.00	26.9

Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	7.68	0.00	7.68	0.77	0.00	26.9

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,440
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	404
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	404

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	11/3/2025	11/28/2025	5.00	20.0	—
Site Preparation	Site Preparation	12/1/2025	12/12/2025	5.00	10.0	—

Grading	Grading	12/15/2025	1/2/2026	5.00	15.0	—
Building Construction	Building Construction	1/5/2026	12/4/2026	5.00	240	—
Paving	Paving	12/7/2026	12/25/2026	5.00	15.0	—
Architectural Coating	Architectural Coating	7/27/2026	1/8/2027	5.00	120	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Site Preparation	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Site Preparation	Scrapers	Diesel	Tier 4 Final	1.00	8.00	423	0.48
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	7.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	7.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	8.00	36.0	0.38
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	7.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	6.00	84.0	0.37

Building Construction	Welders	Diesel	Tier 4 Final	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Tier 4 Final	1.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	9.60	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	12.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	3.67	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	38.5	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	15.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	7.69	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	137,337	45,779	2,980

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	16,684	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	440	0.00	15.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.14

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Refrigerated Warehouse-Rail	0.00	0%
Parking Lot	1.14	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Refrigerated Warehouse-Rail	108	108	108	39,434	871	871	871	317,837
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	137,337	45,779	2,980

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)

Refrigerated Warehouse-Rail	1,770,554	532	0.0330	0.0040	2,293,898
Parking Lot	43,501	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-Rail	21,172,788	135,073
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-Rail	86.1	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction would commence on November 2025 and occur for approximately 14 months. Phases were extended to account for a 14 month construction schedule. Assume overlap between building construction, paving, and architectural coating.
Construction: Off-Road Equipment	Default construction schedule with Tier 4 final engines
Operations: Vehicle Data	Based on the trip generation, the proposed project would generate 108 net new daily trips. Trip rate = 108 ADT / 91.558 tsf = 1.18
Land Use	Project site is 3.48 acres and would consist of a 91,558 sq ft self storage building, including 16 parking spaces and 10,422 sq ft of landscape area
Construction: Dust From Material Movement	440 Cy of soil import

ATTACHMENT C

CONSTRUCTION HRA

Project Location

Receptor Grid

Sensitive Receptor - Construction Cancer Risk

Sensitive Receptor – Construction Chronic Health Index

Worker Receptor – Construction Cancer Risk

Worker Receptor – Construction Chronic Health Index

School Receptor – Construction Cancer Risk

School Receptor – Construction Chronic Health Index

Construction MEI (Sensitive) - Cancer Risk (in a Million) HARP Rec #: 2297 X: 420667.67 Y: 3734487.64			
T2	T2Rev	T3L3	T4
19.51	20.76	2.84	1.39

Construction MEI (Worker) - Cancer Risk (in a Million) HARP Rec #: 3957 X: 420743.32 Y: 3734467.82			
T2	T2Rev	T3L3	T4
1.68	1.79	0.24	0.12

Construction MEI (School) - Cancer Risk (in a Million) HARP Rec #: 5267 X: 421267.97 Y: 3734138.13			
T2	T2Rev	T3L3	T4
0.02	0.020	0.003	0.0013

MEI (Sensitive) - Chronic Hazard Index HARP Rec #: 2297 X: 420667.67 Y: 3734487.64			
T2	T2Rev	T3L3	T4
2.40E-02	2.40E-02	3.29E-03	1.51E-03

MEI (Worker) - Chronic Hazard Index HARP Rec #: 3957 X: 420743.32 Y: 3734467.82			
T2	T2Rev	T3L3	T4
1.13E-01	1.13E-01	1.55E-02	7.12E-03

MEI (School) - Chronic Hazard Index HARP Rec #: 5267 X: 421267.97 Y: 3734138.13			
T2	T2Rev	T3L3	T4
9.58E-05	9.58E-05	1.31E-05	6.02E-06

MEI (Sensitive) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2Rev	T3L3	T4
0.00E+00	0.00E+00	0.00E+00	0.00E+00

MEI (Worker) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2Rev	T3L3	T4
0.00E+00	0.00E+00	0.00E+00	0.00E+00

MEI (School) - Acute Hazard Index HARP Rec #: NA X: NA Y: NA			
T2	T2Rev	T3L3	T4
0.00E+00	0.00E+00	0.00E+00	0.00E+00

MEI (Sensitive) - PM 2.5 HARP Rec #: 2297 X: 420667.67 Y: 3734487.64			
T2	T2Rev	T3L3	T4
0.120	0.120	0.016	0.008

MEI (Worker) - PM 2.5 HARP Rec #: 3957 X: 420743.32 Y: 3734467.82			
T2	T2Rev	T3L3	T4
0.566	0.566	0.077	0.036

MEI (School) - PM 2.5 HARP Rec #: 5267 X: 421267.97 Y: 3734138.13			
T2	T2Rev	T3L3	T4
0.0005	0.0005	0.0001	0.00003

	Zone	**11**	Process Coordinates			
	Datum	**WGS 1984**				
	KML File Name	**20241677 Project MEI**				
Description	**Receptor Type**	**Model Type**	**UTM X**	**UTM Y**	**Latitude**	**Longitude**
Construction	Sensitive	Cancer Risk	420667.67	3734487.64	33.74748516	-117.8565216
Construction	Sensitive	Chronic HI	420667.67	3734487.64	33.74748516	-117.8565216
Construction	Sensitive	Acute HI	0	0		
Construction	Sensitive	PM 2.5	420667.67	3734487.64	33.74748516	-117.8565216
Construction	School	Cancer Risk	421267.97	3734138.13	33.74437797	-117.8500099
Construction	School	Chronic HI	421267.97	3734138.13	33.74437797	-117.8500099
Construction	School	Acute HI	0	0		
Construction	School	PM 2.5	421267.97	3734138.13	33.74437797	-117.8500099
Construction	Worker	Cancer Risk	420743.32	3734467.82	33.74731208	-117.8557031
Construction	Worker	Chronic HI	420743.32	3734467.82	33.74731208	-117.8557031
Construction	Worker	Acute HI	0	0		
Construction	Worker	PM 2.5	420743.32	3734467.82	33.74731208	-117.8557031

General AERMOD Input Parameters			
Project Boundary			
	Based on site plan		
Project Elevation Data			
	Source	**Lakes Environmental**	
	Link	http://www.webgis.com/terraindata.html	
	Evel Data Descr.	**7.5 min DEM**	
Project Receptor Grid			
	Telescoping Grid	Spacing (m)	Distance (m)
	Grid 1	**10**	**100**
	Grid 2	**20**	**200**
	Grid 3	**40**	**400**
	Grid 4		
	Comments	**Receptors on roads or parking lot areas have been removed.**	
Meteorological Dataset			
	Location	**John Wayne Int'l Arpt**	
	Provided By	**South Coast AQMD**	
	Years	**2012-2016**	
	Elevation (m)	**17**	
	Link	https://www.aqmd.gov/docs/default-source/air-quality/meterorological-data/aermod-ready-meteorological-data/table-1-meteorological-sites/2017/JohnWayneInt'lAirportADJU.zip?sfvrsn=8	
Construction Modeling Specific Inputs			
AERMOD Input Options			
	Regulatory Options	**Default**	
	Pollutant Type	**Other**	
	Averaging Period	**Period & Hourly**	
	Dispersion Coefficient	**Urban**	
	County	**Orange**	
	Urban Grouping / Pop	**Y**	**3,010,232**
	# of Worker Receptors	**5,512**	
	# of Sensitive Receptors		
	# of School Receptors		
Construction Area Parameters			
	Source Type	**Polygon Area**	
	Project Area (m^2)	**4082.8**	
	Ht. of Source (m)	**3.048**	

General HARP Input Parameters		
Construction		
School Receptors		
School Scenario Parameters		
	Class Grade	**K-12**
	Starting Age	**4**
	Age Range	**4 Year Old - 7 Years Old**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**RMP using the Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
School Pathway Parameters		
	Pathways	**SCAQMD Manadatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**N**
	TAH ≥ 16 yrs	**N**
Sensitive Receptors		
Sensitive Scenario Parameters		
	Starting Age	**3rd Trimester**
	Age Range	**3rd Trimester - 3 Year**
	Receptor Type	**Individual Resident**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**RMP using the Derived Merthod**
	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Sensitive Pathway Parameters		
	Pathways	**SCAQMD Manadatory minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**Y**
	TAH ≥ 16 yrs	**Y**
Worker Receptors		
Worker Scenario Parameters		
	Starting Age	**16**
	Age Range	**16 - 19**
	Receptor Type	**Worker**
	Assessment Type	**Cancer / Chronic / Acute**
	Exposure Duration	**1**
	Intake Rate	**OEHHA Derived Merthod**

	Comments	**Each year of construction is modeled seperately and the impact to each recepetor is summed to estimate the total esposure from construction emissions. Additionally, the starting age is increased for each year of construction.**
Worker Pathway Parameters		
	Pathways	**OEHHA minimum Pathways**
	Deposition Rate	**0.02**
	TAH < 16 yrs	**N**
	TAH ≥ 16 yrs	**N**

			T2Rev				T3L3				T4			
						1.97E-08				2.69E-09				1.31E-09
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	420751.42	3734206.59	1.48E-08	6.76E-08	1.48E-10	8.26E-08	2.03E-09	9.25E-09	0.00E+00	1.13E-08	1.24E-09	4.25E-09	0.00E+00	5.50E-09
2	420754.25	3734197	1.37E-08	6.24E-08	1.36E-10	7.62E-08	1.87E-09	8.53E-09	0.00E+00	1.04E-08	1.15E-09	3.92E-09	0.00E+00	5.07E-09
3	420759.89	3734177.81	1.17E-08	5.36E-08	1.17E-10	6.54E-08	1.61E-09	7.33E-09	0.00E+00	8.93E-09	9.86E-10	3.37E-09	0.00E+00	4.35E-09
4	420771.19	3734139.44	8.89E-09	4.06E-08	8.88E-11	4.96E-08	1.22E-09	5.56E-09	0.00E+00	6.77E-09	7.48E-10	2.55E-09	0.00E+00	3.30E-09
5	420776.84	3734120.25	7.83E-09	3.58E-08	7.83E-11	4.37E-08	1.07E-09	4.90E-09	0.00E+00	5.97E-09	6.59E-10	2.25E-09	0.00E+00	2.91E-09
6	420782.48	3734101.07	6.95E-09	3.18E-08	6.95E-11	3.88E-08	9.53E-10	4.35E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
7	420788.13	3734081.88	6.22E-09	2.84E-08	6.22E-11	3.47E-08	8.53E-10	3.89E-09	0.00E+00	4.74E-09	5.23E-10	1.79E-09	0.00E+00	2.31E-09
8	420793.78	3734062.7	5.59E-09	2.56E-08	5.59E-11	3.12E-08	7.67E-10	3.50E-09	0.00E+00	4.26E-09	4.70E-10	1.61E-09	0.00E+00	2.08E-09
9	420799.42	3734043.51	5.05E-09	2.31E-08	5.05E-11	2.82E-08	6.92E-10	3.16E-09	0.00E+00	3.85E-09	4.25E-10	1.45E-09	0.00E+00	1.88E-09
10	420805.07	3734024.32	4.58E-09	2.10E-08	4.58E-11	2.56E-08	6.28E-10	2.86E-09	0.00E+00	3.49E-09	3.86E-10	1.32E-09	0.00E+00	1.70E-09
11	420810.72	3734005.14	4.18E-09	1.91E-08	4.17E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.18E-09	3.51E-10	1.20E-09	0.00E+00	1.55E-09
12	420822.01	3733966.77	3.51E-09	1.61E-08	3.51E-11	1.96E-08	4.82E-10	2.20E-09	0.00E+00	2.68E-09	2.96E-10	1.01E-09	0.00E+00	1.31E-09
13	420844.6	3733890.02	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.47E-10	0.00E+00	9.66E-10
14	420855.9	3733851.65	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.92E-10	6.55E-10	0.00E+00	8.46E-10
15	420867.19	3733813.28	2.02E-09	9.22E-09	2.01E-11	1.13E-08	2.76E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.79E-10	0.00E+00	7.49E-10
16	420878.49	3733774.9	1.80E-09	8.24E-09	1.80E-11	1.01E-08	2.47E-10	1.13E-09	0.00E+00	1.37E-09	1.52E-10	5.18E-10	0.00E+00	6.69E-10
17	420889.78	3733736.53	1.63E-09	7.43E-09	1.62E-11	9.07E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.67E-10	0.00E+00	6.04E-10
18	420901.07	3733698.16	1.48E-09	6.75E-09	1.48E-11	8.25E-09	2.02E-10	9.24E-10	0.00E+00	1.13E-09	1.24E-10	4.24E-10	0.00E+00	5.49E-10
19	420912.37	3733659.79	1.35E-09	6.18E-09	1.35E-11	7.55E-09	1.85E-10	8.46E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.02E-10
20	420923.66	3733621.41	1.25E-09	5.69E-09	1.24E-11	6.95E-09	1.71E-10	7.79E-10	0.00E+00	9.49E-10	1.05E-10	3.58E-10	0.00E+00	4.63E-10
21	420710.71	3734291.33	3.42E-08	1.56E-07	3.42E-10	1.91E-07	4.69E-09	2.14E-08	0.00E+00	2.61E-08	2.88E-09	9.83E-09	0.00E+00	1.27E-08
22	420710.67	3734301.19	3.91E-08	1.79E-07	3.91E-10	2.18E-07	5.36E-09	2.44E-08	0.00E+00	2.98E-08	3.29E-09	1.12E-08	0.00E+00	1.45E-08
23	420710.55	3734330.77	6.18E-08	2.83E-07	6.18E-10	3.45E-07	8.47E-09	3.86E-08	0.00E+00	4.71E-08	5.20E-09	1.78E-08	0.00E+00	2.30E-08
24	420710.51	3734340.63	7.39E-08	3.38E-07	7.38E-10	4.12E-07	1.01E-08	4.62E-08	0.00E+00	5.63E-08	6.22E-09	2.12E-08	0.00E+00	2.74E-08
25	420710.47	3734350.49	9.00E-08	4.11E-07	8.99E-10	5.02E-07	1.23E-08	5.63E-08	0.00E+00	6.86E-08	7.57E-09	2.59E-08	0.00E+00	3.34E-08
26	420700.67	3734301.15	3.81E-08	1.74E-07	3.81E-10	2.13E-07	5.22E-09	2.38E-08	0.00E+00	2.90E-08	3.20E-09	1.09E-08	0.00E+00	1.42E-08
27	420700.55	3734330.73	6.00E-08	2.74E-07	6.00E-10	3.35E-07	8.22E-09	3.75E-08	0.00E+00	4.57E-08	5.05E-09	1.72E-08	0.00E+00	2.23E-08
28	420700.51	3734340.59	7.16E-08	3.28E-07	7.16E-10	4.00E-07	9.82E-09	4.48E-08	0.00E+00	5.46E-08	6.03E-09	2.06E-08	0.00E+00	2.66E-08
29	420700.47	3734350.45	8.71E-08	3.98E-07	8.71E-10	4.86E-07	1.19E-08	5.45E-08	0.00E+00	6.64E-08	7.33E-09	2.50E-08	0.00E+00	3.24E-08
30	420690.67	3734301.11	3.70E-08	1.69E-07	3.70E-10	2.07E-07	5.08E-09	2.32E-08	0.00E+00	2.82E-08	3.12E-09	1.06E-08	0.00E+00	1.38E-08
31	420690.55	3734330.69	5.80E-08	2.65E-07	5.80E-10	3.24E-07	7.95E-09	3.63E-08	0.00E+00	4.42E-08	4.88E-09	1.67E-08	0.00E+00	2.15E-08
32	420690.51	3734340.55	6.91E-08	3.16E-07	6.90E-10	3.86E-07	9.47E-09	4.32E-08	0.00E+00	5.27E-08	5.81E-09	1.98E-08	0.00E+00	2.57E-08
33	420690.47	3734350.41	8.37E-08	3.83E-07	8.37E-10	4.67E-07	1.15E-08	5.24E-08	0.00E+00	6.38E-08	7.05E-09	2.41E-08	0.00E+00	3.11E-08
34	420684.74	3734283.23	2.90E-08	1.32E-07	2.90E-10	1.62E-07	3.97E-09	1.81E-08	0.00E+00	2.21E-08	2.44E-09	8.32E-09	0.00E+00	1.08E-08
35	420705.61	3734257.72	2.28E-08	1.04E-07	2.27E-10	1.27E-07	3.12E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.54E-09	0.00E+00	8.45E-09
36	420680.67	3734301.07	3.59E-08	1.64E-07	3.59E-10	2.01E-07	4.93E-09	2.25E-08	0.00E+00	2.74E-08	3.02E-09	1.03E-08	0.00E+00	1.34E-08
37	420680.55	3734330.65	5.59E-08	2.56E-07	5.59E-10	3.12E-07	7.66E-09	3.49E-08	0.00E+00	4.26E-08	4.70E-09	1.61E-08	0.00E+00	2.08E-08
38	420680.51	3734340.51	6.64E-08	3.03E-07	6.63E-10	3.70E-07	9.10E-09	4.15E-08	0.00E+00	5.06E-08	5.58E-09	1.91E-08	0.00E+00	2.47E-08
39	420680.47	3734350.37	8.01E-08	3.66E-07	8.00E-10	4.47E-07	1.10E-08	5.01E-08	0.00E+00	6.10E-08	6.74E-09	2.30E-08	0.00E+00	2.97E-08
40	420674.74	3734283.19	2.82E-08	1.29E-07	2.82E-10	1.57E-07	3.86E-09	1.76E-08	0.00E+00	2.15E-08	2.37E-09	8.10E-09	0.00E+00	1.05E-08
41	420699.64	3734249.7	2.06E-08	9.44E-08	2.06E-10	1.15E-07	2.83E-09	1.29E-08	0.00E+00	1.57E-08	1.74E-09	5.93E-09	0.00E+00	7.67E-09
42	420717.23	3734246.55	2.07E-08	9.46E-08	2.07E-10	1.16E-07	2.84E-09	1.29E-08	0.00E+00	1.58E-08	1.74E-09	5.95E-09	0.00E+00	7.69E-09
43	420670.67	3734301.03	3.49E-08	1.59E-07	3.49E-10	1.95E-07	4.78E-09	2.18E-08	0.00E+00	2.66E-08	2.93E-09	1.00E-08	0.00E+00	1.30E-08
44	420670.55	3734330.61	5.38E-08	2.46E-07	5.38E-10	3.01E-07	7.38E-09	3.37E-08	0.00E+00	4.10E-08	4.53E-09	1.55E-08	0.00E+00	2.00E-08
45	420670.51	3734340.47	6.37E-08	2.91E-07	6.36E-10	3.55E-07	8.73E-09	3.98E-08	0.00E+00	4.85E-08	5.36E-09	1.83E-08	0.00E+00	2.36E-08
46	420670.47	3734350.33	7.64E-08	3.49E-07	7.63E-10	4.26E-07	1.05E-08	4.77E-08	0.00E+00	5.82E-08	6.42E-09	2.19E-08	0.00E+00	2.84E-08
47	420664.74	3734283.15	2.74E-08	1.25E-07	2.74E-10	1.53E-07	3.76E-09	1.71E-08	0.00E+00	2.09E-08	2.31E-09	7.88E-09	0.00E+00	1.02E-08
48	420680.84	3734251.23	2.01E-08	9.19E-08	2.01E-10	1.12E-07	2.76E-09	1.26E-08	0.00E+00	1.53E-08	1.69E-09	5.78E-09	0.00E+00	7.47E-09
49	420693.66	3734241.68	1.88E-08	8.59E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	0.00E+00	1.43E-08	1.58E-09	5.40E-09	0.00E+00	6.98E-09
50	420711.26	3734238.53	1.89E-08	8.63E-08	1.89E-10	1.05E-07	2.59E-09	1.18E-08	0.00E+00	1.44E-08	1.59E-09	5.43E-09	0.00E+00	7.02E-09
51	420728.85	3734235.39	1.88E-08	8.62E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	0.00E+00	1.44E-08	1.59E-09	5.42E-09	0.00E+00	7.00E-09
52	420660.67	3734300.99	3.38E-08	1.55E-07	3.38E-10	1.89E-07	4.64E-09	2.12E-08	0.00E+00	2.58E-08	2.85E-09	9.73E-09	0.00E+00	1.26E-08
53	420660.55	3734330.57	5.18E-08	2.37E-07	5.18E-10	2.89E-07	7.10E-09	3.24E-08	0.00E+00	3.95E-08	4.36E-09	1.49E-08	0.00E+00	1.93E-08
54	420660.51	3734340.43	6.10E-08	2.79E-07	6.10E-10	3.40E-07	8.36E-09	3.81E-08	0.00E+00	4.65E-08	5.13E-09	1.75E-08	0.00E+00	2.27E-08
55	420660.47	3734350.29	7.27E-08	3.32E-07	7.26E-10	4.06E-07	9.96E-09	4.54E-08	0.00E+00	5.54E-08	6.11E-09	2.09E-08	0.00E+00	2.70E-08
56	420654.74	3734283.11	2.67E-08	1.22E-07	2.67E-10	1.49E-07	3.66E-09	1.67E-08	0.00E+00	2.04E-08	2.25E-09	7.67E-09	0.00E+00	9.92E-09
57	420670.84	3734251.19	1.96E-08	8.98E-08	1.96E-10	1.10E-07	2.69E-09	1.23E-08	0.00E+00	1.50E-08	1.65E-09	5.64E-09	0.00E+00	7.29E-09
58	420687.69	3734233.66	1.72E-08	7.85E-08	1.72E-10	9.58E-08	2.35E-09	1.07E-08	0.00E+00	1.31E-08	1.44E-09	4.93E-09	0.00E+00	6.38E-09
59	420705.29	3734230.51	1.73E-08	7.90E-08	1.73E-10	9.64E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.45E-09	4.96E-09	0.00E+00	6.42E-09
60	420722.88	3734227.37	1.73E-08	7.91E-08	1.73E-10	9.66E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.46E-09	4.97E-09	0.00E+00	6.43E-09
61	420650.67	3734300.95	3.29E-08	1.50E-07	3.29E-10	1.84E-07	4.51E-09	2.06E-08	0.00E+00	2.51E-08	2.77E-09	9.45E-09	0.00E+00	1.22E-08
62	420650.55	3734330.53	4.99E-08	2.28E-07	4.99E-10	2.78E-07	6.84E-09	3.12E-08	0.00E+00	3.80E-08	4.20E-09	1.43E-08	0.00E+00	1.85E-08
63	420650.51	3734340.39	5.84E-08	2.67E-07	5.83E-10	3.26E-07	8.00E-09	3.65E-08	0.00E+00	4.45E-08	4.91E-09	1.68E-08	0.00E+00	2.17E-08
64	420650.47	3734350.25	6.90E-08	3.15E-07	6.89E-10	3.85E-07	9.46E-09	4.31E-08	0.00E+00	5.26E-08	5.80E-09	1.98E-08	0.00E+00	2.56E-08
65	420644.74	3734283.07	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.57E-09	1.63E-08	0.00E+00	1.98E-08	2.19E-09	7.48E-09	0.00E+00	9.67E-09
66	420660.84	3734251.15	1.92E-08	8.77E-08	1.92E-10	1.07E-07	2.63E-09	1.20E-08	0.00E+00	1.46E-08	1.61E-09	5.51E-09	0.00E+00	7.12E-09
67	420668.89	3734235.19	1.67E-08	7.64E-08	1.67E-10	9.33E-08	2.29E-09	1.05E-08	0.00E+00	1.27E-08	1.41E-09	4.80E-09	0.00E+00	6.21E-09
68	420681.72	3734225.64	1.57E-08	7.19E-08	1.57E-10	8.78E-08	2.16E-09	9.83E-09	0.00E+00	1.20E-08	1.32E-09	4.52E-09	0.00E+00	5.84E-09
69	420699.31	3734222.49	1.58E-08	7.25E-08	1.58E-10	8.85E-08	2.17E-09	9.91E-09	0.00E+00	1.21E-08	1.33E-09	4.55E-09	0.00E+00	5.89E-09
70	420716.91	3734219.35	1.59E-08	7.27E-08	1.59E-10	8.88E-08	2.18E-09	9.94E-09	0.00E+00	1.21E-08	1.34E-09	4.57E-09	0.00E+00	5.91E-09
71	420734.5	3734216.2	1.58E-08	7.25E-08	1.58E-10	8.85E-08	2.17E-09	9.91E-09	0.00E+00	1.21E-08	1.33E-09	4.55E-09	0.00E+00	5.89E-09

72	420640.67	3734300.91	3.20E-08	1.46E-07	3.20E-10	1.78E-07	4.38E-09	2.00E-08	0.00E+00	2.44E-08	2.69E-09	9.19E-09	0.00E+00	1.19E-08
73	420640.55	3734330.49	4.79E-08	2.19E-07	4.79E-10	2.68E-07	6.57E-09	3.00E-08	0.00E+00	3.65E-08	4.03E-09	1.38E-08	0.00E+00	1.78E-08
74	420640.51	3734340.35	5.57E-08	2.55E-07	5.57E-10	3.11E-07	7.64E-09	3.48E-08	0.00E+00	4.25E-08	4.69E-09	1.60E-08	0.00E+00	2.07E-08
75	420640.47	3734350.21	6.52E-08	2.98E-07	6.52E-10	3.64E-07	8.94E-09	4.08E-08	0.00E+00	4.97E-08	5.49E-09	1.87E-08	0.00E+00	2.42E-08
76	420650.84	3734251.11	1.87E-08	8.57E-08	1.87E-10	1.05E-07	2.57E-09	1.17E-08	0.00E+00	1.43E-08	1.58E-09	5.38E-09	0.00E+00	6.96E-09
77	420658.89	3734235.15	1.64E-08	7.48E-08	1.63E-10	9.13E-08	2.24E-09	1.02E-08	0.00E+00	1.25E-08	1.38E-09	4.70E-09	0.00E+00	6.07E-09
78	420675.74	3734217.62	1.45E-08	6.61E-08	1.45E-10	8.07E-08	1.98E-09	9.04E-09	0.00E+00	1.10E-08	1.22E-09	4.15E-09	0.00E+00	5.37E-09
79	420693.34	3734214.47	1.46E-08	6.66E-08	1.46E-10	8.14E-08	2.00E-09	9.11E-09	0.00E+00	1.11E-08	1.23E-09	4.19E-09	0.00E+00	5.41E-09
80	420710.93	3734211.33	1.47E-08	6.70E-08	1.46E-10	8.18E-08	2.01E-09	9.16E-09	0.00E+00	1.12E-08	1.23E-09	4.21E-09	0.00E+00	5.44E-09
81	420728.53	3734208.18	1.46E-08	6.70E-08	1.46E-10	8.17E-08	2.01E-09	9.16E-09	0.00E+00	1.12E-08	1.23E-09	4.21E-09	0.00E+00	5.44E-09
82	420640.84	3734251.07	1.83E-08	8.38E-08	1.83E-10	1.02E-07	2.51E-09	1.15E-08	0.00E+00	1.40E-08	1.54E-09	5.27E-09	0.00E+00	6.81E-09
83	420648.89	3734235.11	1.60E-08	7.32E-08	1.60E-10	8.93E-08	2.19E-09	1.00E-08	0.00E+00	1.22E-08	1.35E-09	4.60E-09	0.00E+00	5.94E-09
84	420656.95	3734219.15	1.41E-08	6.45E-08	1.41E-10	7.87E-08	1.93E-09	8.81E-09	0.00E+00	1.07E-08	1.19E-09	4.05E-09	0.00E+00	5.24E-09
85	420669.77	3734209.6	1.33E-08	6.09E-08	1.33E-10	7.44E-08	1.83E-09	8.33E-09	0.00E+00	1.02E-08	1.12E-09	3.83E-09	0.00E+00	4.95E-09
86	420687.36	3734206.45	1.34E-08	6.15E-08	1.34E-10	7.50E-08	1.84E-09	8.40E-09	0.00E+00	1.02E-08	1.13E-09	3.86E-09	0.00E+00	4.99E-09
87	420704.96	3734203.31	1.35E-08	6.19E-08	1.35E-10	7.55E-08	1.85E-09	8.46E-09	0.00E+00	1.03E-08	1.14E-09	3.89E-09	0.00E+00	5.03E-09
88	420722.55	3734200.16	1.36E-08	6.20E-08	1.35E-10	7.56E-08	1.86E-09	8.47E-09	0.00E+00	1.03E-08	1.14E-09	3.89E-09	0.00E+00	5.03E-09
89	420635.85	3734221.25	1.38E-08	6.30E-08	1.38E-10	7.69E-08	1.89E-09	8.61E-09	0.00E+00	1.05E-08	1.16E-09	3.96E-09	0.00E+00	5.12E-09
90	420640.24	3734212.54	1.29E-08	5.89E-08	1.29E-10	7.20E-08	1.77E-09	8.06E-09	0.00E+00	9.83E-09	1.08E-09	3.70E-09	0.00E+00	4.79E-09
91	420644.63	3734203.84	1.21E-08	5.53E-08	1.21E-10	6.75E-08	1.66E-09	7.56E-09	0.00E+00	9.22E-09	1.02E-09	3.48E-09	0.00E+00	4.49E-09
92	420658.62	3734193.42	1.14E-08	5.22E-08	1.14E-10	6.38E-08	1.57E-09	7.14E-09	0.00E+00	8.71E-09	9.61E-10	3.28E-09	0.00E+00	4.24E-09
93	420668.22	3734191.7	1.15E-08	5.25E-08	1.15E-10	6.41E-08	1.57E-09	7.17E-09	0.00E+00	8.75E-09	9.65E-10	3.30E-09	0.00E+00	4.26E-09
94	420677.82	3734189.99	1.15E-08	5.27E-08	1.15E-10	6.44E-08	1.58E-09	7.21E-09	0.00E+00	8.79E-09	9.70E-10	3.31E-09	0.00E+00	4.28E-09
95	420687.41	3734188.27	1.16E-08	5.30E-08	1.16E-10	6.47E-08	1.59E-09	7.24E-09	0.00E+00	8.83E-09	9.75E-10	3.33E-09	0.00E+00	4.30E-09
96	420697.01	3734186.55	1.16E-08	5.32E-08	1.16E-10	6.49E-08	1.59E-09	7.27E-09	0.00E+00	8.86E-09	9.78E-10	3.34E-09	0.00E+00	4.32E-09
97	420706.61	3734184.84	1.17E-08	5.33E-08	1.17E-10	6.51E-08	1.60E-09	7.29E-09	0.00E+00	8.89E-09	9.81E-10	3.35E-09	0.00E+00	4.33E-09
98	420716.2	3734183.12	1.17E-08	5.34E-08	1.17E-10	6.52E-08	1.60E-09	7.30E-09	0.00E+00	8.90E-09	9.82E-10	3.35E-09	0.00E+00	4.34E-09
99	420725.8	3734181.4	1.17E-08	5.34E-08	1.17E-10	6.52E-08	1.60E-09	7.30E-09	0.00E+00	8.90E-09	9.82E-10	3.35E-09	0.00E+00	4.34E-09
100	420735.4	3734179.69	1.16E-08	5.33E-08	1.16E-10	6.50E-08	1.60E-09	7.28E-09	0.00E+00	8.88E-09	9.80E-10	3.35E-09	0.00E+00	4.33E-09
101	420600.71	3734290.88	2.53E-08	1.16E-07	2.53E-10	1.41E-07	3.47E-09	1.58E-08	0.00E+00	1.93E-08	2.13E-09	7.28E-09	0.00E+00	9.41E-09
102	420600.67	3734300.74	2.82E-08	1.29E-07	2.82E-10	1.58E-07	3.87E-09	1.76E-08	0.00E+00	2.15E-08	2.37E-09	8.11E-09	0.00E+00	1.05E-08
103	420600.63	3734310.6	3.15E-08	1.44E-07	3.15E-10	1.76E-07	4.32E-09	1.97E-08	0.00E+00	2.40E-08	2.65E-09	9.06E-09	0.00E+00	1.17E-08
104	420600.59	3734320.46	3.53E-08	1.61E-07	3.53E-10	1.97E-07	4.84E-09	2.21E-08	0.00E+00	2.69E-08	2.97E-09	1.01E-08	0.00E+00	1.31E-08
105	420600.55	3734330.32	3.96E-08	1.81E-07	3.95E-10	2.21E-07	5.42E-09	2.47E-08	0.00E+00	3.02E-08	3.33E-09	1.14E-08	0.00E+00	1.47E-08
106	420600.51	3734340.18	4.44E-08	2.03E-07	4.43E-10	2.48E-07	6.08E-09	2.77E-08	0.00E+00	3.38E-08	3.73E-09	1.27E-08	0.00E+00	1.65E-08
107	420600.47	3734350.04	4.97E-08	2.27E-07	4.97E-10	2.77E-07	6.81E-09	3.11E-08	0.00E+00	3.79E-08	4.18E-09	1.43E-08	0.00E+00	1.85E-08
108	420602.39	3734247.84	1.64E-08	7.50E-08	1.64E-10	9.16E-08	2.25E-09	1.03E-08	0.00E+00	1.25E-08	1.38E-09	4.72E-09	0.00E+00	6.10E-09
109	420606.73	3734239.25	1.53E-08	7.00E-08	1.53E-10	8.55E-08	2.10E-09	9.58E-09	0.00E+00	1.17E-08	1.29E-09	4.40E-09	0.00E+00	5.69E-09
110	420646.55	3734177.4	9.88E-09	4.52E-08	9.88E-11	5.52E-08	1.35E-09	6.18E-09	0.00E+00	7.53E-09	8.31E-10	2.84E-09	0.00E+00	3.67E-09
111	420656.02	3734175.71	9.92E-09	4.54E-08	9.92E-11	5.54E-08	1.36E-09	6.20E-09	0.00E+00	7.56E-09	8.35E-10	2.85E-09	0.00E+00	3.69E-09
112	420665.5	3734174.01	9.97E-09	4.56E-08	9.96E-11	5.56E-08	1.37E-09	6.23E-09	0.00E+00	7.60E-09	8.39E-10	2.86E-09	0.00E+00	3.70E-09
113	420674.97	3734172.32	1.00E-08	4.58E-08	1.00E-10	5.59E-08	1.37E-09	6.26E-09	0.00E+00	7.63E-09	8.43E-10	2.88E-09	0.00E+00	3.72E-09
114	420684.45	3734170.62	1.01E-08	4.60E-08	1.01E-10	5.62E-08	1.38E-09	6.29E-09	0.00E+00	7.67E-09	8.46E-10	2.89E-09	0.00E+00	3.74E-09
115	420580.71	3734290.8	2.36E-08	1.08E-07	2.36E-10	1.32E-07	3.24E-09	1.48E-08	0.00E+00	1.80E-08	1.99E-09	6.79E-09	0.00E+00	8.78E-09
116	420580.67	3734300.66	2.61E-08	1.19E-07	2.61E-10	1.46E-07	3.58E-09	1.63E-08	0.00E+00	1.99E-08	2.20E-09	7.51E-09	0.00E+00	9.71E-09
117	420580.63	3734310.52	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	0.00E+00	2.20E-08	2.43E-09	8.29E-09	0.00E+00	1.07E-08
118	420580.59	3734320.38	3.18E-08	1.46E-07	3.18E-10	1.78E-07	4.37E-09	1.99E-08	0.00E+00	2.43E-08	2.68E-09	9.15E-09	0.00E+00	1.18E-08
119	420580.55	3734330.24	3.51E-08	1.61E-07	3.51E-10	1.96E-07	4.81E-09	2.20E-08	0.00E+00	2.68E-08	2.95E-09	1.01E-08	0.00E+00	1.30E-08
120	420580.51	3734340.1	3.86E-08	1.77E-07	3.86E-10	2.16E-07	5.30E-09	2.42E-08	0.00E+00	2.95E-08	3.25E-09	1.11E-08	0.00E+00	1.44E-08
121	420580.47	3734349.96	4.24E-08	1.94E-07	4.24E-10	2.37E-07	5.81E-09	2.65E-08	0.00E+00	3.23E-08	3.57E-09	1.22E-08	0.00E+00	1.58E-08
122	420582.18	3734248.17	1.58E-08	7.20E-08	1.57E-10	8.79E-08	2.16E-09	9.85E-09	0.00E+00	1.20E-08	1.33E-09	4.53E-09	0.00E+00	5.85E-09
123	420586.48	3734239.66	1.48E-08	6.75E-08	1.48E-10	8.24E-08	2.02E-09	9.23E-09	0.00E+00	1.12E-08	1.24E-09	4.24E-09	0.00E+00	5.48E-09
124	420590.77	3734231.14	1.39E-08	6.33E-08	1.38E-10	7.73E-08	1.90E-09	8.66E-09	0.00E+00	1.06E-08	1.17E-09	3.98E-09	0.00E+00	5.15E-09
125	420595.07	3734222.63	1.30E-08	5.94E-08	1.30E-10	7.25E-08	1.78E-09	8.12E-09	0.00E+00	9.90E-09	1.09E-09	3.73E-09	0.00E+00	4.82E-09
126	420599.36	3734214.12	1.22E-08	5.57E-08	1.22E-10	6.80E-08	1.67E-09	7.61E-09	0.00E+00	9.28E-09	1.02E-09	3.50E-09	0.00E+00	4.52E-09
127	420603.66	3734205.61	1.15E-08	5.24E-08	1.14E-10	6.39E-08	1.57E-09	7.16E-09	0.00E+00	8.73E-09	9.63E-10	3.29E-09	0.00E+00	4.25E-09
128	420607.95	3734197.1	1.08E-08	4.93E-08	1.08E-10	6.02E-08	1.48E-09	6.74E-09	0.00E+00	8.22E-09	9.07E-10	3.10E-09	0.00E+00	4.00E-09
129	420700.2	3734149.63	8.87E-09	4.06E-08	8.87E-11	4.95E-08	1.22E-09	5.55E-09	0.00E+00	6.76E-09	7.46E-10	2.55E-09	0.00E+00	3.30E-09
130	420709.58	3734147.95	8.89E-09	4.07E-08	8.89E-11	4.96E-08	1.22E-09	5.56E-09	0.00E+00	6.78E-09	7.48E-10	2.56E-09	0.00E+00	3.30E-09
131	420718.97	3734146.27	8.90E-09	4.07E-08	8.90E-11	4.97E-08	1.22E-09	5.57E-09	0.00E+00	6.79E-09	7.49E-10	2.56E-09	0.00E+00	3.31E-09
132	420728.35	3734144.59	8.90E-09	4.07E-08	8.90E-11	4.97E-08	1.22E-09	5.57E-09	0.00E+00	6.79E-09	7.49E-10	2.56E-09	0.00E+00	3.31E-09
133	420737.74	3734142.92	8.89E-09	4.06E-08	8.88E-11	4.96E-08	1.22E-09	5.56E-09	0.00E+00	6.77E-09	7.48E-10	2.55E-09	0.00E+00	3.30E-09
134	420756.5	3734139.56	8.82E-09	4.03E-08	8.81E-11	4.92E-08	1.21E-09	5.51E-09	0.00E+00	6.72E-09	7.42E-10	2.53E-09	0.00E+00	3.28E-09
135	420560.71	3734290.72	2.18E-08	9.95E-08	2.18E-10	1.21E-07	2.98E-09	1.36E-08	0.00E+00	1.66E-08	1.83E-09	6.25E-09	0.00E+00	8.08E-09
136	420560.67	3734300.58	2.39E-08	1.09E-07	2.39E-10	1.33E-07	3.28E-09	1.49E-08	0.00E+00	1.82E-08	2.01E-09	6.87E-09	0.00E+00	8.88E-09
137	420560.63	3734310.44	2.61E-08	1.19E-07	2.61E-10	1.46E-07	3.57E-09	1.63E-08	0.00E+00	1.99E-08	2.19E-09	7.49E-09	0.00E+00	9.68E-09
138	420560.59	3734320.3	2.84E-08	1.30E-07	2.84E-10	1.58E-07	3.89E-09	1.77E-08	0.00E+00	2.16E-08	2.39E-09	8.15E-09	0.00E+00	1.05E-08
139	420560.55	3734330.16	3.08E-08	1.41E-07	3.08E-10	1.72E-07	4.22E-09	1.93E-08	0.00E+00	2.35E-08	2.59E-09	8.85E-09	0.00E+00	1.14E-08
140	420560.51	3734340.02	3.33E-08	1.52E-07	3.33E-10	1.86E-07	4.57E-09	2.08E-08	0.00E+00	2.54E-08	2.80E-09	9.57E-09	0.00E+00	1.24E-08
141	420560.47	3734349.88	3.59E-08	1.64E-07	3.58E-10	2.00E-07	4.92E-09	2.24E-08	0.00E+00	2.73E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
142	420562.03	3734248.4	1.50E-08	6.88E-08	1.50E-10	8.40E-08	2.06E-09	9.40E-09	0.00E+00	1.15E-08	1.27E-09	4.32E-09	0.00E+00	5.59E-09
143	420566.29	3734239.95	1.42E-08	6.49E-08	1.42E-10	7.92E-08	1.95E-09	8.87E-09	0.00E+00	1.08E-08	1.19E-09	4.08E-09	0.00E+00	5.27E-09
144	420570.55	3734231.5	1.33E-08	6.10E-08	1.33E-10	7.45E-08	1.83E-09	8.34E-09	0.00E+00	1.02E-08	1.12E-09	3.83E-09	0.00E+00	4.96E-09
145	420574.81	3734223.05	1.25E-08	5.74E-08	1.25E-10	7.00E-08	1.72E-09	7.85E-09	0.00E+00	9.57E-09	1.06E-09	3.61E-09	0.00E+00	4.66E-09
146	420579.08	3734214.61	1.19E-08	5.42E-08	1.19E-10	6.62E-08	1.63E-09	7.41E-09	0.00E+00	9.04E-09	9.98E-10	3.41E-09	0.00E+00	4.41E-09

147	420583.34	3734206.16	1.12E-08	5.10E-08	1.12E-10	6.23E-08	1.53E-09	6.98E-09	0.00E+00	8.51E-09	9.39E-10	3.21E-09	0.00E+00	4.15E-09
148	420587.6	3734197.71	1.05E-08	4.81E-08	1.05E-10	5.87E-08	1.44E-09	6.58E-09	0.00E+00	8.02E-09	8.85E-10	3.02E-09	0.00E+00	3.91E-09
149	420591.87	3734189.26	9.93E-09	4.54E-08	9.92E-11	5.54E-08	1.36E-09	6.21E-09	0.00E+00	7.57E-09	8.35E-10	2.85E-09	0.00E+00	3.69E-09
150	420596.13	3734180.81	9.38E-09	4.29E-08	9.37E-11	5.23E-08	1.29E-09	5.86E-09	0.00E+00	7.15E-09	7.89E-10	2.69E-09	0.00E+00	3.48E-09
151	420600.39	3734172.36	8.87E-09	4.05E-08	8.86E-11	4.95E-08	1.22E-09	5.54E-09	0.00E+00	6.76E-09	7.46E-10	2.55E-09	0.00E+00	3.29E-09
152	420631.81	3734143.69	7.61E-09	3.48E-08	7.61E-11	4.25E-08	1.04E-09	4.76E-09	0.00E+00	5.80E-09	6.40E-10	2.19E-09	0.00E+00	2.83E-09
153	420641.12	3734142.02	7.64E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.78E-09	0.00E+00	5.82E-09	6.43E-10	2.19E-09	0.00E+00	2.84E-09
154	420650.44	3734140.35	7.67E-09	3.51E-08	7.66E-11	4.28E-08	1.05E-09	4.79E-09	0.00E+00	5.85E-09	6.45E-10	2.20E-09	0.00E+00	2.85E-09
155	420659.75	3734138.69	7.70E-09	3.52E-08	7.70E-11	4.30E-08	1.06E-09	4.82E-09	0.00E+00	5.87E-09	6.48E-10	2.21E-09	0.00E+00	2.86E-09
156	420669.07	3734137.02	7.74E-09	3.54E-08	7.73E-11	4.32E-08	1.06E-09	4.84E-09	0.00E+00	5.90E-09	6.51E-10	2.22E-09	0.00E+00	2.87E-09
157	420678.39	3734135.36	7.77E-09	3.55E-08	7.76E-11	4.34E-08	1.06E-09	4.86E-09	0.00E+00	5.92E-09	6.54E-10	2.23E-09	0.00E+00	2.89E-09
158	420687.7	3734133.69	7.80E-09	3.57E-08	7.79E-11	4.35E-08	1.07E-09	4.88E-09	0.00E+00	5.94E-09	6.56E-10	2.24E-09	0.00E+00	2.90E-09
159	420697.02	3734132.02	7.83E-09	3.58E-08	7.82E-11	4.37E-08	1.07E-09	4.89E-09	0.00E+00	5.97E-09	6.58E-10	2.25E-09	0.00E+00	2.91E-09
160	420706.33	3734130.36	7.85E-09	3.59E-08	7.84E-11	4.38E-08	1.08E-09	4.91E-09	0.00E+00	5.98E-09	6.60E-10	2.26E-09	0.00E+00	2.92E-09
161	420715.65	3734128.69	7.86E-09	3.60E-08	7.86E-11	4.39E-08	1.08E-09	4.92E-09	0.00E+00	5.99E-09	6.62E-10	2.26E-09	0.00E+00	2.92E-09
162	420724.96	3734127.03	7.87E-09	3.60E-08	7.86E-11	4.39E-08	1.08E-09	4.92E-09	0.00E+00	6.00E-09	6.62E-10	2.26E-09	0.00E+00	2.92E-09
163	420734.28	3734125.36	7.86E-09	3.59E-08	7.86E-11	4.39E-08	1.08E-09	4.91E-09	0.00E+00	5.99E-09	6.61E-10	2.26E-09	0.00E+00	2.92E-09
164	420762.22	3734120.36	7.78E-09	3.56E-08	7.78E-11	4.34E-08	1.07E-09	4.87E-09	0.00E+00	5.93E-09	6.55E-10	2.24E-09	0.00E+00	2.89E-09
165	420540.71	3734290.64	2.00E-08	9.14E-08	2.00E-10	1.12E-07	2.74E-09	1.25E-08	0.00E+00	1.52E-08	1.68E-09	5.74E-09	0.00E+00	7.42E-09
166	420540.67	3734300.5	2.17E-08	9.90E-08	2.16E-10	1.21E-07	2.97E-09	1.35E-08	0.00E+00	1.65E-08	1.82E-09	6.22E-09	0.00E+00	8.05E-09
167	420540.63	3734310.36	2.33E-08	1.07E-07	2.33E-10	1.30E-07	3.20E-09	1.46E-08	0.00E+00	1.78E-08	1.96E-09	6.70E-09	0.00E+00	8.66E-09
168	420540.59	3734320.22	2.50E-08	1.14E-07	2.50E-10	1.40E-07	3.43E-09	1.56E-08	0.00E+00	1.91E-08	2.11E-09	7.19E-09	0.00E+00	9.30E-09
169	420540.55	3734330.08	2.68E-08	1.22E-07	2.68E-10	1.49E-07	3.67E-09	1.67E-08	0.00E+00	2.04E-08	2.25E-09	7.69E-09	0.00E+00	9.95E-09
170	420540.51	3734339.94	2.85E-08	1.30E-07	2.85E-10	1.59E-07	3.91E-09	1.78E-08	0.00E+00	2.17E-08	2.40E-09	8.19E-09	0.00E+00	1.06E-08
171	420540.47	3734349.8	3.02E-08	1.38E-07	3.02E-10	1.69E-07	4.14E-09	1.89E-08	0.00E+00	2.30E-08	2.54E-09	8.69E-09	0.00E+00	1.12E-08
172	420541.9	3734248.56	1.42E-08	6.48E-08	1.42E-10	7.91E-08	1.94E-09	8.86E-09	0.00E+00	1.08E-08	1.19E-09	4.07E-09	0.00E+00	5.27E-09
173	420546.14	3734240.17	1.35E-08	6.18E-08	1.35E-10	7.55E-08	1.85E-09	8.45E-09	0.00E+00	1.03E-08	1.14E-09	3.89E-09	0.00E+00	5.02E-09
174	420550.38	3734231.77	1.29E-08	5.88E-08	1.29E-10	7.18E-08	1.76E-09	8.04E-09	0.00E+00	9.81E-09	1.08E-09	3.70E-09	0.00E+00	4.78E-09
175	420554.61	3734223.37	1.22E-08	5.58E-08	1.22E-10	6.81E-08	1.67E-09	7.63E-09	0.00E+00	9.30E-09	1.03E-09	3.51E-09	0.00E+00	4.53E-09
176	420558.85	3734214.97	1.15E-08	5.27E-08	1.15E-10	6.44E-08	1.58E-09	7.21E-09	0.00E+00	8.79E-09	9.70E-10	3.31E-09	0.00E+00	4.28E-09
177	420563.09	3734206.57	1.09E-08	4.97E-08	1.09E-10	6.07E-08	1.49E-09	6.80E-09	0.00E+00	8.29E-09	9.15E-10	3.13E-09	0.00E+00	4.04E-09
178	420567.33	3734198.17	1.03E-08	4.70E-08	1.03E-10	5.73E-08	1.41E-09	6.42E-09	0.00E+00	7.83E-09	8.64E-10	2.95E-09	0.00E+00	3.82E-09
179	420571.57	3734189.77	9.70E-09	4.44E-08	9.70E-11	5.42E-08	1.33E-09	6.07E-09	0.00E+00	7.40E-09	8.16E-10	2.79E-09	0.00E+00	3.60E-09
180	420575.8	3734181.37	9.17E-09	4.19E-08	9.17E-11	5.12E-08	1.26E-09	5.74E-09	0.00E+00	6.99E-09	7.72E-10	2.64E-09	0.00E+00	3.41E-09
181	420580.04	3734172.97	8.68E-09	3.97E-08	8.68E-11	4.85E-08	1.19E-09	5.43E-09	0.00E+00	6.62E-09	7.30E-10	2.49E-09	0.00E+00	3.23E-09
182	420592.76	3734147.78	7.41E-09	3.39E-08	7.41E-11	4.14E-08	1.02E-09	4.64E-09	0.00E+00	5.65E-09	6.24E-10	2.13E-09	0.00E+00	2.75E-09
183	420596.99	3734139.38	7.05E-09	3.22E-08	7.05E-11	3.94E-08	9.67E-10	4.41E-09	0.00E+00	5.38E-09	5.93E-10	2.03E-09	0.00E+00	2.62E-09
184	420610.49	3734129.32	6.73E-09	3.08E-08	6.72E-11	3.76E-08	9.22E-10	4.21E-09	0.00E+00	5.13E-09	5.66E-10	1.93E-09	0.00E+00	2.50E-09
185	420638.27	3734124.35	6.78E-09	3.10E-08	6.78E-11	3.79E-08	9.30E-10	4.24E-09	0.00E+00	5.17E-09	5.71E-10	1.95E-09	0.00E+00	2.52E-09
186	420647.53	3734122.7	6.81E-09	3.11E-08	6.81E-11	3.80E-08	9.34E-10	4.26E-09	0.00E+00	5.19E-09	5.73E-10	1.96E-09	0.00E+00	2.53E-09
187	420656.8	3734121.04	6.84E-09	3.13E-08	6.84E-11	3.82E-08	9.38E-10	4.28E-09	0.00E+00	5.22E-09	5.76E-10	1.97E-09	0.00E+00	2.54E-09
188	420666.06	3734119.39	6.87E-09	3.14E-08	6.87E-11	3.84E-08	9.42E-10	4.30E-09	0.00E+00	5.24E-09	5.78E-10	1.97E-09	0.00E+00	2.55E-09
189	420675.32	3734117.73	6.90E-09	3.16E-08	6.90E-11	3.85E-08	9.46E-10	4.31E-09	0.00E+00	5.26E-09	5.81E-10	1.98E-09	0.00E+00	2.56E-09
190	420684.58	3734116.07	6.93E-09	3.17E-08	6.92E-11	3.87E-08	9.50E-10	4.33E-09	0.00E+00	5.28E-09	5.83E-10	1.99E-09	0.00E+00	2.57E-09
191	420693.84	3734114.42	6.95E-09	3.18E-08	6.95E-11	3.88E-08	9.53E-10	4.35E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
192	420703.1	3734112.76	6.97E-09	3.19E-08	6.97E-11	3.89E-08	9.56E-10	4.36E-09	0.00E+00	5.32E-09	5.87E-10	2.00E-09	0.00E+00	2.59E-09
193	420712.36	3734111.1	6.99E-09	3.19E-08	6.98E-11	3.90E-08	9.58E-10	4.37E-09	0.00E+00	5.33E-09	5.88E-10	2.01E-09	0.00E+00	2.60E-09
194	420721.62	3734109.45	6.99E-09	3.20E-08	6.99E-11	3.90E-08	9.59E-10	4.37E-09	0.00E+00	5.33E-09	5.88E-10	2.01E-09	0.00E+00	2.60E-09
195	420730.88	3734107.79	7.00E-09	3.20E-08	6.99E-11	3.90E-08	9.59E-10	4.37E-09	0.00E+00	5.33E-09	5.89E-10	2.01E-09	0.00E+00	2.60E-09
196	420758.66	3734102.82	6.95E-09	3.18E-08	6.95E-11	3.88E-08	9.53E-10	4.34E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
197	420767.92	3734101.16	6.92E-09	3.16E-08	6.91E-11	3.86E-08	9.48E-10	4.32E-09	0.00E+00	5.27E-09	5.82E-10	1.99E-09	0.00E+00	2.57E-09
198	420520.71	3734290.56	1.83E-08	8.35E-08	1.83E-10	1.02E-07	2.50E-09	1.14E-08	0.00E+00	1.39E-08	1.54E-09	5.25E-09	0.00E+00	6.78E-09
199	420520.67	3734300.42	1.95E-08	8.90E-08	1.95E-10	1.09E-07	2.67E-09	1.22E-08	0.00E+00	1.48E-08	1.64E-09	5.60E-09	0.00E+00	7.24E-09
200	420520.63	3734310.28	2.07E-08	9.47E-08	2.07E-10	1.16E-07	2.84E-09	1.30E-08	0.00E+00	1.58E-08	1.74E-09	5.95E-09	0.00E+00	7.70E-09
201	420520.59	3734320.14	2.20E-08	1.00E-07	2.19E-10	1.23E-07	3.01E-09	1.37E-08	0.00E+00	1.67E-08	1.85E-09	6.31E-09	0.00E+00	8.16E-09
202	420520.55	3734330	2.32E-08	1.06E-07	2.32E-10	1.29E-07	3.18E-09	1.45E-08	0.00E+00	1.77E-08	1.95E-09	6.66E-09	0.00E+00	8.61E-09
203	420520.51	3734339.86	2.44E-08	1.11E-07	2.43E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	7.00E-09	0.00E+00	9.05E-09
204	420520.47	3734349.72	2.55E-08	1.16E-07	2.55E-10	1.42E-07	3.49E-09	1.59E-08	0.00E+00	1.94E-08	2.14E-09	7.32E-09	0.00E+00	9.46E-09
205	420522.85	3734246.59	1.34E-08	6.13E-08	1.34E-10	7.49E-08	1.84E-09	8.39E-09	0.00E+00	1.02E-08	1.13E-09	3.86E-09	0.00E+00	4.98E-09
206	420527.28	3734237.82	1.28E-08	5.85E-08	1.28E-10	7.14E-08	1.75E-09	8.00E-09	0.00E+00	9.75E-09	1.08E-09	3.68E-09	0.00E+00	4.75E-09
207	420531.71	3734229.04	1.22E-08	5.58E-08	1.22E-10	6.81E-08	1.67E-09	7.62E-09	0.00E+00	9.30E-09	1.03E-09	3.50E-09	0.00E+00	4.53E-09
208	420536.14	3734220.26	1.15E-08	5.28E-08	1.15E-10	6.44E-08	1.58E-09	7.21E-09	0.00E+00	8.80E-09	9.71E-10	3.32E-09	0.00E+00	4.29E-09
209	420540.57	3734211.49	1.09E-08	4.99E-08	1.09E-10	6.09E-08	1.49E-09	6.82E-09	0.00E+00	8.31E-09	9.17E-10	3.13E-09	0.00E+00	4.05E-09
210	420545	3734202.71	1.03E-08	4.71E-08	1.03E-10	5.75E-08	1.41E-09	6.44E-09	0.00E+00	7.85E-09	8.66E-10	2.96E-09	0.00E+00	3.83E-09
211	420549.43	3734193.93	9.72E-09	4.44E-08	9.72E-11	5.43E-08	1.33E-09	6.08E-09	0.00E+00	7.41E-09	8.18E-10	2.79E-09	0.00E+00	3.61E-09
212	420553.86	3734185.16	9.18E-09	4.20E-08	9.17E-11	5.12E-08	1.26E-09	5.74E-09	0.00E+00	7.00E-09	7.72E-10	2.64E-09	0.00E+00	3.41E-09
213	420558.28	3734176.38	8.67E-09	3.96E-08	8.67E-11	4.84E-08	1.19E-09	5.42E-09	0.00E+00	6.61E-09	7.29E-10	2.49E-09	0.00E+00	3.22E-09
214	420576	3734141.27	6.97E-09	3.19E-08	6.97E-11	3.89E-08	9.56E-10	4.36E-09	0.00E+00	5.32E-09	5.87E-10	2.00E-09	0.00E+00	2.59E-09
215	420580.43	3734132.49	6.62E-09	3.03E-08	6.62E-11	3.70E-08	9.08E-10	4.14E-09	0.00E+00	5.05E-09	5.57E-10	1.90E-09	0.00E+00	2.46E-09
216	420584.86	3734123.72	6.30E-09	2.88E-08	6.30E-11	3.52E-08	8.64E-10	3.94E-09	0.00E+00	4.80E-09	5.30E-10	1.81E-09	0.00E+00	2.34E-09
217	420598.96	3734113.21	6.01E-09	2.75E-08	6.00E-11	3.35E-08	8.23E-10	3.76E-09	0.00E+00	4.58E-09	5.05E-10	1.73E-09	0.00E+00	2.23E-09
218	420608.64	3734111.48	6.02E-09	2.75E-08	6.01E-11	3.36E-08	8.25E-10	3.76E-09	0.00E+00	4.59E-09	5.06E-10	1.73E-09	0.00E+00	2.23E-09
219	420637.67	3734106.29	6.07E-09	2.77E-08	6.07E-11	3.39E-08	8.32E-10	3.79E-09	0.00E+00	4.63E-09	5.11E-10	1.74E-09	0.00E+00	2.25E-09
220	420647.35	3734104.56	6.10E-09	2.79E-08	6.09E-11	3.40E-08	8.36E-10	3.81E-09	0.00E+00	4.65E-09	5.13E-10	1.75E-09	0.00E+00	2.26E-09
221	420657.03	3734102.82	6.13E-09	2.80E-08	6.12E-11	3.42E-08	8.40E-10	3.83E-09	0.00E+00	4.67E-09	5.15E-10	1.76E-09	0.00E+00	2.28E-09

222	420666.7	3734101.09	6.15E-09	2.81E-08	6.15E-11	3.43E-08	8.43E-10	3.85E-09	0.00E+00	4.69E-09	5.18E-10	1.77E-09	0.00E+00	2.29E-09
223	420676.38	3734099.36	6.18E-09	2.83E-08	6.18E-11	3.45E-08	8.47E-10	3.86E-09	0.00E+00	4.71E-09	5.20E-10	1.78E-09	0.00E+00	2.30E-09
224	420686.06	3734097.63	6.20E-09	2.84E-08	6.20E-11	3.46E-08	8.50E-10	3.88E-09	0.00E+00	4.73E-09	5.22E-10	1.78E-09	0.00E+00	2.30E-09
225	420695.73	3734095.9	6.23E-09	2.85E-08	6.22E-11	3.48E-08	8.54E-10	3.89E-09	0.00E+00	4.75E-09	5.24E-10	1.79E-09	0.00E+00	2.31E-09
226	420705.41	3734094.17	6.24E-09	2.86E-08	6.24E-11	3.49E-08	8.56E-10	3.90E-09	0.00E+00	4.76E-09	5.25E-10	1.79E-09	0.00E+00	2.32E-09
227	420715.09	3734092.44	6.26E-09	2.86E-08	6.25E-11	3.49E-08	8.58E-10	3.91E-09	0.00E+00	4.77E-09	5.26E-10	1.80E-09	0.00E+00	2.32E-09
228	420724.77	3734090.71	6.26E-09	2.86E-08	6.26E-11	3.50E-08	8.59E-10	3.92E-09	0.00E+00	4.77E-09	5.27E-10	1.80E-09	0.00E+00	2.33E-09
229	420734.44	3734088.98	6.26E-09	2.86E-08	6.26E-11	3.50E-08	8.59E-10	3.92E-09	0.00E+00	4.78E-09	5.27E-10	1.80E-09	0.00E+00	2.33E-09
230	420753.8	3734085.52	6.24E-09	2.85E-08	6.24E-11	3.48E-08	8.56E-10	3.90E-09	0.00E+00	4.76E-09	5.25E-10	1.79E-09	0.00E+00	2.32E-09
231	420763.48	3734083.78	6.22E-09	2.84E-08	6.22E-11	3.47E-08	8.53E-10	3.89E-09	0.00E+00	4.74E-09	5.23E-10	1.79E-09	0.00E+00	2.31E-09
232	420773.15	3734082.05	6.19E-09	2.83E-08	6.19E-11	3.46E-08	8.48E-10	3.87E-09	0.00E+00	4.72E-09	5.21E-10	1.78E-09	0.00E+00	2.30E-09
233	420500.71	3734290.48	1.65E-08	7.52E-08	1.64E-10	9.19E-08	2.26E-09	1.03E-08	0.00E+00	1.25E-08	1.38E-09	4.73E-09	0.00E+00	6.11E-09
234	420500.67	3734300.34	1.74E-08	7.94E-08	1.74E-10	9.70E-08	2.38E-09	1.09E-08	0.00E+00	1.32E-08	1.46E-09	4.99E-09	0.00E+00	6.45E-09
235	420500.63	3734310.2	1.83E-08	8.36E-08	1.83E-10	1.02E-07	2.51E-09	1.14E-08	0.00E+00	1.39E-08	1.54E-09	5.25E-09	0.00E+00	6.79E-09
236	420500.59	3734320.06	1.92E-08	8.76E-08	1.91E-10	1.07E-07	2.63E-09	1.20E-08	0.00E+00	1.46E-08	1.61E-09	5.50E-09	0.00E+00	7.12E-09
237	420500.55	3734329.92	2.00E-08	9.14E-08	2.00E-10	1.12E-07	2.74E-09	1.25E-08	0.00E+00	1.52E-08	1.68E-09	5.74E-09	0.00E+00	7.43E-09
238	420500.51	3734339.78	2.08E-08	9.50E-08	2.08E-10	1.16E-07	2.85E-09	1.30E-08	0.00E+00	1.58E-08	1.75E-09	5.97E-09	0.00E+00	7.72E-09
239	420500.47	3734349.64	2.15E-08	9.82E-08	2.15E-10	1.20E-07	2.95E-09	1.34E-08	0.00E+00	1.64E-08	1.81E-09	6.17E-09	0.00E+00	7.98E-09
240	420511.46	3734229.47	1.17E-08	5.33E-08	1.16E-10	6.50E-08	1.60E-09	7.28E-09	0.00E+00	8.88E-09	9.80E-10	3.35E-09	0.00E+00	4.33E-09
241	420515.85	3734220.76	1.11E-08	5.07E-08	1.11E-10	6.20E-08	1.52E-09	6.94E-09	0.00E+00	8.46E-09	9.34E-10	3.19E-09	0.00E+00	4.12E-09
242	420520.24	3734212.06	1.06E-08	4.82E-08	1.05E-10	5.89E-08	1.45E-09	6.60E-09	0.00E+00	8.04E-09	8.88E-10	3.03E-09	0.00E+00	3.92E-09
243	420524.63	3734203.35	1.00E-08	4.58E-08	1.00E-10	5.59E-08	1.37E-09	6.26E-09	0.00E+00	7.63E-09	8.42E-10	2.88E-09	0.00E+00	3.72E-09
244	420529.02	3734194.65	9.49E-09	4.34E-08	9.49E-11	5.30E-08	1.30E-09	5.93E-09	0.00E+00	7.23E-09	7.98E-10	2.73E-09	0.00E+00	3.53E-09
245	420533.42	3734185.94	8.99E-09	4.11E-08	8.98E-11	5.02E-08	1.23E-09	5.62E-09	0.00E+00	6.85E-09	7.56E-10	2.58E-09	0.00E+00	3.34E-09
246	420537.81	3734177.24	8.51E-09	3.89E-08	8.51E-11	4.75E-08	1.17E-09	5.32E-09	0.00E+00	6.49E-09	7.16E-10	2.45E-09	0.00E+00	3.16E-09
247	420555.38	3734142.42	6.88E-09	3.14E-08	6.87E-11	3.84E-08	9.43E-10	4.30E-09	0.00E+00	5.24E-09	5.79E-10	1.98E-09	0.00E+00	2.56E-09
248	420559.77	3734133.72	6.54E-09	2.99E-08	6.53E-11	3.65E-08	8.96E-10	4.09E-09	0.00E+00	4.98E-09	5.50E-10	1.88E-09	0.00E+00	2.43E-09
249	420564.16	3734125.01	6.22E-09	2.84E-08	6.21E-11	3.47E-08	8.52E-10	3.89E-09	0.00E+00	4.74E-09	5.23E-10	1.79E-09	0.00E+00	2.31E-09
250	420568.55	3734116.31	5.92E-09	2.71E-08	5.92E-11	3.31E-08	8.12E-10	3.70E-09	0.00E+00	4.51E-09	4.98E-10	1.70E-09	0.00E+00	2.20E-09
251	420572.94	3734107.61	5.65E-09	2.58E-08	5.64E-11	3.15E-08	7.74E-10	3.53E-09	0.00E+00	4.30E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
252	420586.93	3734097.19	5.39E-09	2.47E-08	5.39E-11	3.01E-08	7.39E-10	3.37E-09	0.00E+00	4.11E-09	4.54E-10	1.55E-09	0.00E+00	2.00E-09
253	420596.53	3734095.47	5.40E-09	2.47E-08	5.40E-11	3.01E-08	7.40E-10	3.38E-09	0.00E+00	4.12E-09	4.54E-10	1.55E-09	0.00E+00	2.01E-09
254	420606.13	3734093.75	5.41E-09	2.47E-08	5.41E-11	3.02E-08	7.42E-10	3.38E-09	0.00E+00	4.12E-09	4.55E-10	1.55E-09	0.00E+00	2.01E-09
255	420615.73	3734092.04	5.42E-09	2.48E-08	5.42E-11	3.03E-08	7.43E-10	3.39E-09	0.00E+00	4.13E-09	4.56E-10	1.56E-09	0.00E+00	2.01E-09
256	420634.92	3734088.6	5.46E-09	2.50E-08	5.46E-11	3.05E-08	7.48E-10	3.41E-09	0.00E+00	4.16E-09	4.59E-10	1.57E-09	0.00E+00	2.03E-09
257	420644.52	3734086.89	5.48E-09	2.51E-08	5.48E-11	3.06E-08	7.52E-10	3.43E-09	0.00E+00	4.18E-09	4.61E-10	1.58E-09	0.00E+00	2.04E-09
258	420654.11	3734085.17	5.51E-09	2.52E-08	5.51E-11	3.08E-08	7.55E-10	3.44E-09	0.00E+00	4.20E-09	4.64E-10	1.58E-09	0.00E+00	2.05E-09
259	420663.71	3734083.45	5.53E-09	2.53E-08	5.53E-11	3.09E-08	7.59E-10	3.46E-09	0.00E+00	4.22E-09	4.66E-10	1.59E-09	0.00E+00	2.06E-09
260	420673.31	3734081.74	5.56E-09	2.54E-08	5.56E-11	3.10E-08	7.62E-10	3.48E-09	0.00E+00	4.24E-09	4.68E-10	1.60E-09	0.00E+00	2.06E-09
261	420682.91	3734080.02	5.58E-09	2.55E-08	5.58E-11	3.12E-08	7.65E-10	3.49E-09	0.00E+00	4.25E-09	4.70E-10	1.60E-09	0.00E+00	2.07E-09
262	420692.5	3734078.3	5.60E-09	2.56E-08	5.60E-11	3.13E-08	7.68E-10	3.50E-09	0.00E+00	4.27E-09	4.71E-10	1.61E-09	0.00E+00	2.08E-09
263	420702.1	3734076.59	5.62E-09	2.57E-08	5.62E-11	3.14E-08	7.70E-10	3.51E-09	0.00E+00	4.28E-09	4.73E-10	1.61E-09	0.00E+00	2.09E-09
264	420711.7	3734074.87	5.63E-09	2.58E-08	5.63E-11	3.14E-08	7.72E-10	3.52E-09	0.00E+00	4.29E-09	4.74E-10	1.62E-09	0.00E+00	2.09E-09
265	420721.3	3734073.15	5.64E-09	2.58E-08	5.64E-11	3.15E-08	7.73E-10	3.53E-09	0.00E+00	4.30E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
266	420730.89	3734071.44	5.64E-09	2.58E-08	5.64E-11	3.15E-08	7.74E-10	3.53E-09	0.00E+00	4.30E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
267	420759.69	3734066.29	5.62E-09	2.57E-08	5.61E-11	3.14E-08	7.70E-10	3.51E-09	0.00E+00	4.28E-09	4.73E-10	1.61E-09	0.00E+00	2.09E-09
268	420769.28	3734064.57	5.59E-09	2.56E-08	5.59E-11	3.12E-08	7.67E-10	3.50E-09	0.00E+00	4.26E-09	4.71E-10	1.61E-09	0.00E+00	2.08E-09
269	420778.88	3734062.85	5.57E-09	2.55E-08	5.56E-11	3.11E-08	7.63E-10	3.48E-09	0.00E+00	4.24E-09	4.68E-10	1.60E-09	0.00E+00	2.07E-09
270	420480.71	3734290.4	1.47E-08	6.74E-08	1.47E-10	8.23E-08	2.02E-09	9.22E-09	0.00E+00	1.12E-08	1.24E-09	4.24E-09	0.00E+00	5.48E-09
271	420480.67	3734300.26	1.54E-08	7.05E-08	1.54E-10	8.60E-08	2.11E-09	9.64E-09	0.00E+00	1.18E-08	1.30E-09	4.43E-09	0.00E+00	5.73E-09
272	420480.63	3734310.12	1.61E-08	7.34E-08	1.61E-10	8.97E-08	2.20E-09	1.00E-08	0.00E+00	1.22E-08	1.35E-09	4.62E-09	0.00E+00	5.97E-09
273	420480.59	3734319.98	1.67E-08	7.62E-08	1.67E-10	9.31E-08	2.29E-09	1.04E-08	0.00E+00	1.27E-08	1.40E-09	4.79E-09	0.00E+00	6.19E-09
274	420480.55	3734329.84	1.72E-08	7.88E-08	1.72E-10	9.62E-08	2.36E-09	1.08E-08	0.00E+00	1.31E-08	1.45E-09	4.95E-09	0.00E+00	6.40E-09
275	420480.51	3734339.7	1.77E-08	8.11E-08	1.77E-10	9.90E-08	2.43E-09	1.11E-08	0.00E+00	1.35E-08	1.49E-09	5.10E-09	0.00E+00	6.59E-09
276	420480.47	3734349.56	1.82E-08	8.31E-08	1.82E-10	1.02E-07	2.49E-09	1.14E-08	0.00E+00	1.39E-08	1.53E-09	5.23E-09	0.00E+00	6.76E-09
277	420482.52	3734247.1	1.19E-08	5.42E-08	1.19E-10	6.62E-08	1.63E-09	7.41E-09	0.00E+00	9.04E-09	9.98E-10	3.41E-09	0.00E+00	4.40E-09
278	420486.88	3734238.45	1.15E-08	5.24E-08	1.15E-10	6.40E-08	1.57E-09	7.17E-09	0.00E+00	8.74E-09	9.64E-10	3.29E-09	0.00E+00	4.26E-09
279	420491.24	3734229.81	1.10E-08	5.05E-08	1.10E-10	6.16E-08	1.51E-09	6.90E-09	0.00E+00	8.41E-09	9.29E-10	3.17E-09	0.00E+00	4.10E-09
280	420513.05	3734186.59	8.77E-09	4.01E-08	8.76E-11	4.89E-08	1.20E-09	5.48E-09	0.00E+00	6.68E-09	7.37E-10	2.52E-09	0.00E+00	3.26E-09
281	420517.41	3734177.95	8.33E-09	3.81E-08	8.33E-11	4.65E-08	1.14E-09	5.21E-09	0.00E+00	6.35E-09	7.01E-10	2.39E-09	0.00E+00	3.09E-09
282	420521.77	3734169.3	7.91E-09	3.62E-08	7.91E-11	4.42E-08	1.08E-09	4.95E-09	0.00E+00	6.03E-09	6.66E-10	2.27E-09	0.00E+00	2.94E-09
283	420534.86	3734143.37	6.78E-09	3.10E-08	6.78E-11	3.79E-08	9.30E-10	4.24E-09	0.00E+00	5.17E-09	5.71E-10	1.95E-09	0.00E+00	2.52E-09
284	420539.22	3734134.73	6.45E-09	2.95E-08	6.45E-11	3.60E-08	8.84E-10	4.03E-09	0.00E+00	4.92E-09	5.43E-10	1.85E-09	0.00E+00	2.40E-09
285	420543.58	3734126.08	6.14E-09	2.81E-08	6.14E-11	3.43E-08	8.42E-10	3.84E-09	0.00E+00	4.68E-09	5.17E-10	1.76E-09	0.00E+00	2.28E-09
286	420547.94	3734117.44	5.85E-09	2.67E-08	5.85E-11	3.26E-08	8.02E-10	3.66E-09	0.00E+00	4.46E-09	4.92E-10	1.68E-09	0.00E+00	2.17E-09
287	420552.3	3734108.79	5.58E-09	2.55E-08	5.57E-11	3.11E-08	7.64E-10	3.49E-09	0.00E+00	4.25E-09	4.69E-10	1.60E-09	0.00E+00	2.07E-09
288	420556.67	3734100.15	5.32E-09	2.43E-08	5.32E-11	2.97E-08	7.30E-10	3.33E-09	0.00E+00	4.06E-09	4.48E-10	1.53E-09	0.00E+00	1.98E-09
289	420561.03	3734091.51	5.09E-09	2.33E-08	5.08E-11	2.84E-08	6.97E-10	3.18E-09	0.00E+00	3.88E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
290	420574.92	3734081.16	4.87E-09	2.22E-08	4.86E-11	2.72E-08	6.67E-10	3.04E-09	0.00E+00	3.71E-09	4.09E-10	1.40E-09	0.00E+00	1.81E-09
291	420584.45	3734079.45	4.87E-09	2.23E-08	4.87E-11	2.72E-08	6.68E-10	3.05E-09	0.00E+00	3.71E-09	4.10E-10	1.40E-09	0.00E+00	1.81E-09
292	420593.98	3734077.75	4.88E-09	2.23E-08	4.88E-11	2.72E-08	6.69E-10	3.05E-09	0.00E+00	3.72E-09	4.10E-10	1.40E-09	0.00E+00	1.81E-09
293	420603.51	3734076.04	4.89E-09	2.24E-08	4.89E-11	2.73E-08	6.70E-10	3.06E-09	0.00E+00	3.73E-09	4.11E-10	1.41E-09	0.00E+00	1.82E-09
294	420613.04	3734074.34	4.90E-09	2.24E-08	4.90E-11	2.74E-08	6.72E-10	3.07E-09	0.00E+00	3.74E-09	4.13E-10	1.41E-09	0.00E+00	1.82E-09
295	420632.1	3734070.93	4.94E-09	2.26E-08	4.94E-11	2.76E-08	6.77E-10	3.09E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
296	420641.63	3734069.23	4.96E-09	2.27E-08	4.96E-11	2.77E-08	6.80E-10	3.10E-09	0.00E+00	3.78E-09	4.17E-10	1.43E-09	0.00E+00	1.84E-09

297	420651.16	3734067.52	4.98E-09	2.28E-08	4.98E-11	2.78E-08	6.83E-10	3.11E-09	0.00E+00	3.80E-09	4.19E-10	1.43E-09	0.00E+00	1.85E-09
298	420660.7	3734065.82	5.00E-09	2.29E-08	5.00E-11	2.79E-08	6.86E-10	3.13E-09	0.00E+00	3.81E-09	4.21E-10	1.44E-09	0.00E+00	1.86E-09
299	420670.23	3734064.11	5.03E-09	2.30E-08	5.02E-11	2.81E-08	6.89E-10	3.14E-09	0.00E+00	3.83E-09	4.23E-10	1.44E-09	0.00E+00	1.87E-09
300	420679.76	3734062.41	5.05E-09	2.31E-08	5.04E-11	2.82E-08	6.92E-10	3.15E-09	0.00E+00	3.85E-09	4.24E-10	1.45E-09	0.00E+00	1.87E-09
301	420689.29	3734060.7	5.06E-09	2.31E-08	5.06E-11	2.83E-08	6.94E-10	3.17E-09	0.00E+00	3.86E-09	4.26E-10	1.45E-09	0.00E+00	1.88E-09
302	420698.82	3734059	5.08E-09	2.32E-08	5.08E-11	2.84E-08	6.96E-10	3.18E-09	0.00E+00	3.87E-09	4.27E-10	1.46E-09	0.00E+00	1.89E-09
303	420708.35	3734057.29	5.09E-09	2.33E-08	5.09E-11	2.84E-08	6.98E-10	3.18E-09	0.00E+00	3.88E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
304	420717.88	3734055.59	5.10E-09	2.33E-08	5.10E-11	2.85E-08	6.99E-10	3.19E-09	0.00E+00	3.89E-09	4.29E-10	1.47E-09	0.00E+00	1.90E-09
305	420727.41	3734053.88	5.11E-09	2.33E-08	5.10E-11	2.85E-08	7.00E-10	3.19E-09	0.00E+00	3.89E-09	4.29E-10	1.47E-09	0.00E+00	1.90E-09
306	420736.94	3734052.18	5.10E-09	2.33E-08	5.10E-11	2.85E-08	7.00E-10	3.19E-09	0.00E+00	3.89E-09	4.29E-10	1.47E-09	0.00E+00	1.90E-09
307	420756	3734048.77	5.09E-09	2.33E-08	5.09E-11	2.84E-08	6.98E-10	3.18E-09	0.00E+00	3.88E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
308	420765.53	3734047.06	5.07E-09	2.32E-08	5.07E-11	2.83E-08	6.96E-10	3.17E-09	0.00E+00	3.87E-09	4.27E-10	1.46E-09	0.00E+00	1.88E-09
309	420775.06	3734045.36	5.05E-09	2.31E-08	5.05E-11	2.82E-08	6.93E-10	3.16E-09	0.00E+00	3.85E-09	4.25E-10	1.45E-09	0.00E+00	1.88E-09
310	420784.59	3734043.65	5.03E-09	2.30E-08	5.03E-11	2.81E-08	6.90E-10	3.14E-09	0.00E+00	3.83E-09	4.23E-10	1.45E-09	0.00E+00	1.87E-09
311	420460.71	3734290.32	1.32E-08	6.02E-08	1.31E-10	7.34E-08	1.80E-09	8.23E-09	0.00E+00	1.00E-08	1.11E-09	3.78E-09	0.00E+00	4.89E-09
312	420460.67	3734300.18	1.36E-08	6.24E-08	1.36E-10	7.61E-08	1.87E-09	8.53E-09	0.00E+00	1.04E-08	1.15E-09	3.92E-09	0.00E+00	5.07E-09
313	420460.63	3734310.04	1.41E-08	6.44E-08	1.41E-10	7.87E-08	1.93E-09	8.81E-09	0.00E+00	1.07E-08	1.19E-09	4.05E-09	0.00E+00	5.24E-09
314	420460.59	3734319.9	1.45E-08	6.63E-08	1.45E-10	8.10E-08	1.99E-09	9.07E-09	0.00E+00	1.11E-08	1.22E-09	4.17E-09	0.00E+00	5.39E-09
315	420460.55	3734329.76	1.49E-08	6.80E-08	1.49E-10	8.30E-08	2.04E-09	9.30E-09	0.00E+00	1.13E-08	1.25E-09	4.27E-09	0.00E+00	5.53E-09
316	420460.51	3734339.62	1.52E-08	6.95E-08	1.52E-10	8.48E-08	2.08E-09	9.50E-09	0.00E+00	1.16E-08	1.28E-09	4.37E-09	0.00E+00	5.65E-09
317	420460.47	3734349.48	1.55E-08	7.07E-08	1.55E-10	8.64E-08	2.12E-09	9.67E-09	0.00E+00	1.18E-08	1.30E-09	4.45E-09	0.00E+00	5.75E-09
318	420462.39	3734247.27	1.10E-08	5.01E-08	1.10E-10	6.12E-08	1.50E-09	6.86E-09	0.00E+00	8.36E-09	9.23E-10	3.15E-09	0.00E+00	4.07E-09
319	420466.73	3734238.68	1.07E-08	4.89E-08	1.07E-10	5.96E-08	1.46E-09	6.68E-09	0.00E+00	8.14E-09	8.99E-10	3.07E-09	0.00E+00	3.97E-09
320	420471.06	3734230.09	1.04E-08	4.74E-08	1.04E-10	5.79E-08	1.42E-09	6.48E-09	0.00E+00	7.90E-09	8.72E-10	2.98E-09	0.00E+00	3.85E-09
321	420475.4	3734221.49	1.00E-08	4.58E-08	1.00E-10	5.59E-08	1.37E-09	6.27E-09	0.00E+00	7.64E-09	8.43E-10	2.88E-09	0.00E+00	3.72E-09
322	420479.73	3734212.9	9.65E-09	4.41E-08	9.65E-11	5.39E-08	1.32E-09	6.03E-09	0.00E+00	7.36E-09	8.12E-10	2.77E-09	0.00E+00	3.59E-09
323	420484.07	3734204.31	9.27E-09	4.24E-08	9.26E-11	5.17E-08	1.27E-09	5.79E-09	0.00E+00	7.07E-09	7.80E-10	2.66E-09	0.00E+00	3.44E-09
324	420488.41	3734195.71	8.88E-09	4.06E-08	8.87E-11	4.96E-08	1.22E-09	5.55E-09	0.00E+00	6.77E-09	7.47E-10	2.55E-09	0.00E+00	3.30E-09
325	420492.74	3734187.12	8.49E-09	3.88E-08	8.49E-11	4.74E-08	1.16E-09	5.31E-09	0.00E+00	6.47E-09	7.14E-10	2.44E-09	0.00E+00	3.15E-09
326	420514.42	3734144.16	6.68E-09	3.05E-08	6.68E-11	3.73E-08	9.16E-10	4.18E-09	0.00E+00	5.09E-09	5.62E-10	1.92E-09	0.00E+00	2.48E-09
327	420518.76	3734135.57	6.36E-09	2.91E-08	6.36E-11	3.55E-08	8.72E-10	3.98E-09	0.00E+00	4.85E-09	5.35E-10	1.83E-09	0.00E+00	2.36E-09
328	420523.09	3734126.97	6.06E-09	2.77E-08	6.06E-11	3.38E-08	8.31E-10	3.79E-09	0.00E+00	4.62E-09	5.10E-10	1.74E-09	0.00E+00	2.25E-09
329	420527.43	3734118.38	5.78E-09	2.64E-08	5.78E-11	3.23E-08	7.92E-10	3.61E-09	0.00E+00	4.41E-09	4.86E-10	1.66E-09	0.00E+00	2.15E-09
330	420531.76	3734109.79	5.51E-09	2.52E-08	5.51E-11	3.08E-08	7.56E-10	3.45E-09	0.00E+00	4.20E-09	4.64E-10	1.58E-09	0.00E+00	2.05E-09
331	420536.1	3734101.19	5.26E-09	2.41E-08	5.26E-11	2.94E-08	7.22E-10	3.29E-09	0.00E+00	4.01E-09	4.43E-10	1.51E-09	0.00E+00	1.96E-09
332	420540.43	3734092.6	5.03E-09	2.30E-08	5.03E-11	2.81E-08	6.89E-10	3.14E-09	0.00E+00	3.83E-09	4.23E-10	1.45E-09	0.00E+00	1.87E-09
333	420544.77	3734084.01	4.81E-09	2.20E-08	4.81E-11	2.68E-08	6.59E-10	3.01E-09	0.00E+00	3.67E-09	4.05E-10	1.38E-09	0.00E+00	1.79E-09
334	420549.11	3734075.42	4.61E-09	2.11E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
335	420562.92	3734065.13	4.41E-09	2.02E-08	4.41E-11	2.46E-08	6.05E-10	2.76E-09	0.00E+00	3.36E-09	3.71E-10	1.27E-09	0.00E+00	1.64E-09
336	420572.39	3734063.43	4.41E-09	2.02E-08	4.41E-11	2.46E-08	6.05E-10	2.76E-09	0.00E+00	3.37E-09	3.71E-10	1.27E-09	0.00E+00	1.64E-09
337	420581.86	3734061.74	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.76E-09	0.00E+00	3.37E-09	3.72E-10	1.27E-09	0.00E+00	1.64E-09
338	420591.34	3734060.05	4.43E-09	2.03E-08	4.43E-11	2.47E-08	6.07E-10	2.77E-09	0.00E+00	3.38E-09	3.73E-10	1.27E-09	0.00E+00	1.65E-09
339	420600.81	3734058.35	4.44E-09	2.03E-08	4.44E-11	2.48E-08	6.09E-10	2.78E-09	0.00E+00	3.39E-09	3.74E-10	1.28E-09	0.00E+00	1.65E-09
340	420638.71	3734051.57	4.51E-09	2.06E-08	4.50E-11	2.52E-08	6.18E-10	2.82E-09	0.00E+00	3.43E-09	3.79E-10	1.29E-09	0.00E+00	1.67E-09
341	420648.18	3734049.88	4.53E-09	2.07E-08	4.52E-11	2.53E-08	6.20E-10	2.83E-09	0.00E+00	3.45E-09	3.81E-10	1.30E-09	0.00E+00	1.68E-09
342	420657.66	3734048.18	4.54E-09	2.08E-08	4.54E-11	2.54E-08	6.23E-10	2.84E-09	0.00E+00	3.46E-09	3.82E-10	1.31E-09	0.00E+00	1.69E-09
343	420667.13	3734046.49	4.56E-09	2.09E-08	4.56E-11	2.55E-08	6.26E-10	2.85E-09	0.00E+00	3.48E-09	3.84E-10	1.31E-09	0.00E+00	1.70E-09
344	420676.61	3734044.79	4.58E-09	2.09E-08	4.58E-11	2.56E-08	6.28E-10	2.86E-09	0.00E+00	3.49E-09	3.85E-10	1.32E-09	0.00E+00	1.70E-09
345	420686.08	3734043.1	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.30E-10	2.87E-09	0.00E+00	3.51E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
346	420695.55	3734041.4	4.61E-09	2.11E-08	4.61E-11	2.57E-08	6.32E-10	2.88E-09	0.00E+00	3.52E-09	3.88E-10	1.33E-09	0.00E+00	1.71E-09
347	420705.03	3734039.71	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.34E-10	2.89E-09	0.00E+00	3.53E-09	3.89E-10	1.33E-09	0.00E+00	1.72E-09
348	420714.5	3734038.02	4.63E-09	2.12E-08	4.63E-11	2.59E-08	6.35E-10	2.90E-09	0.00E+00	3.53E-09	3.90E-10	1.33E-09	0.00E+00	1.72E-09
349	420723.98	3734036.32	4.64E-09	2.12E-08	4.64E-11	2.59E-08	6.36E-10	2.90E-09	0.00E+00	3.54E-09	3.90E-10	1.33E-09	0.00E+00	1.72E-09
350	420733.45	3734034.63	4.64E-09	2.12E-08	4.64E-11	2.59E-08	6.36E-10	2.90E-09	0.00E+00	3.54E-09	3.90E-10	1.33E-09	0.00E+00	1.72E-09
351	420752.4	3734031.24	4.63E-09	2.12E-08	4.63E-11	2.58E-08	6.35E-10	2.90E-09	0.00E+00	3.53E-09	3.90E-10	1.33E-09	0.00E+00	1.72E-09
352	420761.87	3734029.54	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.33E-10	2.89E-09	0.00E+00	3.52E-09	3.89E-10	1.33E-09	0.00E+00	1.72E-09
353	420771.35	3734027.85	4.61E-09	2.11E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.88E-10	1.32E-09	0.00E+00	1.71E-09
354	420780.82	3734026.15	4.59E-09	2.10E-08	4.59E-11	2.56E-08	6.29E-10	2.87E-09	0.00E+00	3.50E-09	3.86E-10	1.32E-09	0.00E+00	1.70E-09
355	420790.3	3734024.46	4.57E-09	2.09E-08	4.56E-11	2.55E-08	6.26E-10	2.85E-09	0.00E+00	3.48E-09	3.84E-10	1.31E-09	0.00E+00	1.70E-09
356	420442.28	3734247.41	1.01E-08	4.61E-08	1.01E-10	5.63E-08	1.38E-09	6.30E-09	0.00E+00	7.68E-09	8.48E-10	2.90E-09	0.00E+00	3.74E-09
357	420446.59	3734238.86	9.89E-09	4.52E-08	9.88E-11	5.52E-08	1.36E-09	6.18E-09	0.00E+00	7.54E-09	8.32E-10	2.84E-09	0.00E+00	3.67E-09
358	420450.91	3734230.31	9.66E-09	4.42E-08	9.66E-11	5.39E-08	1.32E-09	6.04E-09	0.00E+00	7.37E-09	8.13E-10	2.78E-09	0.00E+00	3.59E-09
359	420455.22	3734221.76	9.41E-09	4.30E-08	9.40E-11	5.25E-08	1.29E-09	5.88E-09	0.00E+00	7.17E-09	7.91E-10	2.70E-09	0.00E+00	3.49E-09
360	420459.53	3734213.21	9.12E-09	4.17E-08	9.12E-11	5.09E-08	1.25E-09	5.70E-09	0.00E+00	6.95E-09	7.67E-10	2.62E-09	0.00E+00	3.39E-09
361	420463.85	3734204.66	8.82E-09	4.03E-08	8.81E-11	4.92E-08	1.21E-09	5.51E-09	0.00E+00	6.72E-09	7.42E-10	2.53E-09	0.00E+00	3.28E-09
362	420468.16	3734196.12	8.50E-09	3.89E-08	8.50E-11	4.74E-08	1.17E-09	5.31E-09	0.00E+00	6.48E-09	7.15E-10	2.44E-09	0.00E+00	3.16E-09
363	420472.48	3734187.57	8.17E-09	3.74E-08	8.17E-11	4.56E-08	1.12E-09	5.11E-09	0.00E+00	6.23E-09	6.88E-10	2.35E-09	0.00E+00	3.04E-09
364	420476.79	3734179.02	7.84E-09	3.58E-08	7.84E-11	4.38E-08	1.07E-09	4.90E-09	0.00E+00	5.98E-09	6.60E-10	2.25E-09	0.00E+00	2.91E-09
365	420481.1	3734170.47	7.51E-09	3.43E-08	7.51E-11	4.19E-08	1.03E-09	4.70E-09	0.00E+00	5.73E-09	6.32E-10	2.16E-09	0.00E+00	2.79E-09
366	420511.3	3734110.63	5.45E-09	2.49E-08	5.45E-11	3.04E-08	7.47E-10	3.41E-09	0.00E+00	4.15E-09	4.59E-10	1.57E-09	0.00E+00	2.02E-09
367	420515.61	3734102.08	5.21E-09	2.38E-08	5.20E-11	2.91E-08	7.14E-10	3.26E-09	0.00E+00	3.97E-09	4.38E-10	1.50E-09	0.00E+00	1.93E-09
368	420519.93	3734093.53	4.98E-09	2.28E-08	4.98E-11	2.78E-08	6.82E-10	3.11E-09	0.00E+00	3.79E-09	4.19E-10	1.43E-09	0.00E+00	1.85E-09
369	420524.24	3734084.98	4.76E-09	2.18E-08	4.76E-11	2.66E-08	6.53E-10	2.98E-09	0.00E+00	3.63E-09	4.01E-10	1.37E-09	0.00E+00	1.77E-09
370	420528.55	3734076.43	4.56E-09	2.08E-08	4.56E-11	2.54E-08	6.25E-10	2.85E-09	0.00E+00	3.48E-09	3.84E-10	1.31E-09	0.00E+00	1.69E-09
371	420532.87	3734067.88	4.37E-09	2.00E-08	4.37E-11	2.44E-08	5.99E-10	2.73E-09	0.00E+00	3.33E-09	3.68E-10	1.26E-09	0.00E+00	1.62E-09

372	420537.18	3734059.33	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	0.00E+00	3.20E-09	3.53E-10	1.20E-09	0.00E+00	1.56E-09
373	420579.2	3734044.04	4.03E-09	1.84E-08	4.03E-11	2.25E-08	5.53E-10	2.52E-09	0.00E+00	3.07E-09	3.39E-10	1.16E-09	0.00E+00	1.50E-09
374	420588.62	3734042.35	4.04E-09	1.85E-08	4.04E-11	2.26E-08	5.54E-10	2.53E-09	0.00E+00	3.08E-09	3.40E-10	1.16E-09	0.00E+00	1.50E-09
375	420598.05	3734040.67	4.05E-09	1.85E-08	4.05E-11	2.26E-08	5.55E-10	2.53E-09	0.00E+00	3.09E-09	3.41E-10	1.16E-09	0.00E+00	1.50E-09
376	420607.47	3734038.98	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	0.00E+00	3.10E-09	3.42E-10	1.17E-09	0.00E+00	1.51E-09
377	420635.75	3734033.92	4.11E-09	1.88E-08	4.11E-11	2.29E-08	5.63E-10	2.57E-09	0.00E+00	3.13E-09	3.46E-10	1.18E-09	0.00E+00	1.53E-09
378	420645.18	3734032.24	4.13E-09	1.89E-08	4.13E-11	2.30E-08	5.66E-10	2.58E-09	0.00E+00	3.15E-09	3.47E-10	1.19E-09	0.00E+00	1.53E-09
379	420654.6	3734030.55	4.15E-09	1.90E-08	4.14E-11	2.31E-08	5.68E-10	2.59E-09	0.00E+00	3.16E-09	3.49E-10	1.19E-09	0.00E+00	1.54E-09
380	420664.03	3734028.87	4.16E-09	1.90E-08	4.16E-11	2.32E-08	5.71E-10	2.60E-09	0.00E+00	3.17E-09	3.50E-10	1.20E-09	0.00E+00	1.55E-09
381	420673.46	3734027.18	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.18E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
382	420682.88	3734025.5	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	0.00E+00	3.20E-09	3.53E-10	1.20E-09	0.00E+00	1.56E-09
383	420692.31	3734023.81	4.21E-09	1.92E-08	4.20E-11	2.35E-08	5.77E-10	2.63E-09	0.00E+00	3.21E-09	3.54E-10	1.21E-09	0.00E+00	1.56E-09
384	420701.73	3734022.12	4.22E-09	1.93E-08	4.21E-11	2.35E-08	5.78E-10	2.64E-09	0.00E+00	3.21E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
385	420711.16	3734020.44	4.22E-09	1.93E-08	4.22E-11	2.36E-08	5.79E-10	2.64E-09	0.00E+00	3.22E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
386	420720.59	3734018.75	4.23E-09	1.93E-08	4.23E-11	2.36E-08	5.80E-10	2.65E-09	0.00E+00	3.23E-09	3.56E-10	1.22E-09	0.00E+00	1.57E-09
387	420730.01	3734017.07	4.23E-09	1.94E-08	4.23E-11	2.36E-08	5.81E-10	2.65E-09	0.00E+00	3.23E-09	3.56E-10	1.22E-09	0.00E+00	1.57E-09
388	420758.29	3734012.01	4.22E-09	1.93E-08	4.22E-11	2.36E-08	5.79E-10	2.64E-09	0.00E+00	3.22E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
389	420767.72	3734010.32	4.21E-09	1.93E-08	4.21E-11	2.35E-08	5.77E-10	2.63E-09	0.00E+00	3.21E-09	3.54E-10	1.21E-09	0.00E+00	1.56E-09
390	420777.14	3734008.64	4.20E-09	1.92E-08	4.20E-11	2.34E-08	5.76E-10	2.63E-09	0.00E+00	3.20E-09	3.53E-10	1.21E-09	0.00E+00	1.56E-09
391	420786.57	3734006.95	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.62E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
392	420795.99	3734005.26	4.16E-09	1.90E-08	4.16E-11	2.32E-08	5.71E-10	2.60E-09	0.00E+00	3.17E-09	3.50E-10	1.20E-09	0.00E+00	1.55E-09
393	420420.71	3734290.15	1.04E-08	4.76E-08	1.04E-10	5.81E-08	1.43E-09	6.51E-09	0.00E+00	7.94E-09	8.76E-10	2.99E-09	0.00E+00	3.87E-09
394	420420.67	3734300.01	1.06E-08	4.87E-08	1.06E-10	5.94E-08	1.46E-09	6.66E-09	0.00E+00	8.12E-09	8.96E-10	3.06E-09	0.00E+00	3.96E-09
395	420420.63	3734309.87	1.09E-08	4.96E-08	1.09E-10	6.06E-08	1.49E-09	6.79E-09	0.00E+00	8.28E-09	9.13E-10	3.12E-09	0.00E+00	4.03E-09
396	420420.59	3734319.73	1.10E-08	5.04E-08	1.10E-10	6.16E-08	1.51E-09	6.90E-09	0.00E+00	8.41E-09	9.28E-10	3.17E-09	0.00E+00	4.10E-09
397	420420.55	3734329.59	1.12E-08	5.11E-08	1.12E-10	6.24E-08	1.53E-09	6.99E-09	0.00E+00	8.52E-09	9.40E-10	3.21E-09	0.00E+00	4.15E-09
398	420420.51	3734339.45	1.13E-08	5.16E-08	1.13E-10	6.30E-08	1.55E-09	7.06E-09	0.00E+00	8.61E-09	9.50E-10	3.24E-09	0.00E+00	4.19E-09
399	420420.47	3734349.31	1.14E-08	5.20E-08	1.14E-10	6.35E-08	1.56E-09	7.11E-09	0.00E+00	8.67E-09	9.57E-10	3.27E-09	0.00E+00	4.23E-09
400	420398.38	3734254.99	8.43E-09	3.85E-08	8.43E-11	4.71E-08	1.16E-09	5.27E-09	0.00E+00	6.43E-09	7.09E-10	2.42E-09	0.00E+00	3.13E-09
401	420402.79	3734246.24	8.40E-09	3.84E-08	8.39E-11	4.69E-08	1.15E-09	5.25E-09	0.00E+00	6.40E-09	7.06E-10	2.41E-09	0.00E+00	3.12E-09
402	420407.21	3734237.48	8.33E-09	3.81E-08	8.33E-11	4.65E-08	1.14E-09	5.21E-09	0.00E+00	6.35E-09	7.01E-10	2.39E-09	0.00E+00	3.09E-09
403	420411.62	3734228.73	8.23E-09	3.76E-08	8.23E-11	4.59E-08	1.13E-09	5.15E-09	0.00E+00	6.27E-09	6.92E-10	2.36E-09	0.00E+00	3.06E-09
404	420416.04	3734219.98	8.10E-09	3.70E-08	8.10E-11	4.52E-08	1.11E-09	5.07E-09	0.00E+00	6.18E-09	6.82E-10	2.33E-09	0.00E+00	3.01E-09
405	420420.45	3734211.23	7.94E-09	3.63E-08	7.94E-11	4.43E-08	1.09E-09	4.97E-09	0.00E+00	6.06E-09	6.68E-10	2.28E-09	0.00E+00	2.95E-09
406	420424.87	3734202.48	7.76E-09	3.55E-08	7.76E-11	4.33E-08	1.06E-09	4.85E-09	0.00E+00	5.92E-09	6.53E-10	2.23E-09	0.00E+00	2.88E-09
407	420429.28	3734193.73	7.56E-09	3.46E-08	7.56E-11	4.22E-08	1.04E-09	4.73E-09	0.00E+00	5.76E-09	6.36E-10	2.17E-09	0.00E+00	2.81E-09
408	420433.7	3734184.98	7.34E-09	3.36E-08	7.34E-11	4.10E-08	1.01E-09	4.59E-09	0.00E+00	5.60E-09	6.18E-10	2.11E-09	0.00E+00	2.73E-09
409	420438.12	3734176.23	7.11E-09	3.25E-08	7.10E-11	3.97E-08	9.74E-10	4.44E-09	0.00E+00	5.42E-09	5.98E-10	2.04E-09	0.00E+00	2.64E-09
410	420442.53	3734167.48	6.86E-09	3.14E-08	6.86E-11	3.83E-08	9.40E-10	4.29E-09	0.00E+00	5.23E-09	5.77E-10	1.97E-09	0.00E+00	2.55E-09
411	420455.78	3734141.22	6.10E-09	2.79E-08	6.10E-11	3.41E-08	8.37E-10	3.82E-09	0.00E+00	4.65E-09	5.14E-10	1.75E-09	0.00E+00	2.27E-09
412	420460.19	3734132.47	5.86E-09	2.68E-08	5.85E-11	3.27E-08	8.03E-10	3.66E-09	0.00E+00	4.46E-09	4.93E-10	1.68E-09	0.00E+00	2.18E-09
413	420464.61	3734123.72	5.61E-09	2.57E-08	5.61E-11	3.13E-08	7.69E-10	3.51E-09	0.00E+00	4.28E-09	4.72E-10	1.61E-09	0.00E+00	2.08E-09
414	420469.03	3734114.97	5.38E-09	2.46E-08	5.37E-11	3.00E-08	7.37E-10	3.36E-09	0.00E+00	4.10E-09	4.52E-10	1.54E-09	0.00E+00	2.00E-09
415	420473.44	3734106.22	5.15E-09	2.35E-08	5.14E-11	2.87E-08	7.05E-10	3.22E-09	0.00E+00	3.92E-09	4.33E-10	1.48E-09	0.00E+00	1.91E-09
416	420477.86	3734097.47	4.93E-09	2.25E-08	4.92E-11	2.75E-08	6.75E-10	3.08E-09	0.00E+00	3.76E-09	4.15E-10	1.42E-09	0.00E+00	1.83E-09
417	420482.27	3734088.72	4.72E-09	2.16E-08	4.72E-11	2.63E-08	6.47E-10	2.95E-09	0.00E+00	3.60E-09	3.97E-10	1.36E-09	0.00E+00	1.75E-09
418	420486.69	3734079.96	4.52E-09	2.07E-08	4.52E-11	2.52E-08	6.20E-10	2.83E-09	0.00E+00	3.45E-09	3.80E-10	1.30E-09	0.00E+00	1.68E-09
419	420491.1	3734071.21	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	0.00E+00	3.30E-09	3.64E-10	1.24E-09	0.00E+00	1.61E-09
420	420508.77	3734036.21	3.67E-09	1.68E-08	3.67E-11	2.05E-08	5.03E-10	2.29E-09	0.00E+00	2.80E-09	3.09E-10	1.05E-09	0.00E+00	1.36E-09
421	420513.18	3734027.46	3.53E-09	1.61E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.01E-09	0.00E+00	1.31E-09
422	420527.25	3734016.98	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.74E-10	0.00E+00	1.26E-09
423	420536.9	3734015.25	3.39E-09	1.55E-08	3.38E-11	1.89E-08	4.64E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.73E-10	0.00E+00	1.26E-09
424	420546.54	3734013.53	3.38E-09	1.55E-08	3.38E-11	1.89E-08	4.64E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.73E-10	0.00E+00	1.26E-09
425	420556.19	3734011.8	3.39E-09	1.55E-08	3.38E-11	1.89E-08	4.64E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.73E-10	0.00E+00	1.26E-09
426	420565.84	3734010.08	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.64E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.74E-10	0.00E+00	1.26E-09
427	420575.49	3734008.35	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	0.00E+00	2.59E-09	2.86E-10	9.75E-10	0.00E+00	1.26E-09
428	420585.14	3734006.63	3.40E-09	1.56E-08	3.40E-11	1.90E-08	4.67E-10	2.13E-09	0.00E+00	2.59E-09	2.86E-10	9.78E-10	0.00E+00	1.26E-09
429	420594.79	3734004.9	3.41E-09	1.56E-08	3.41E-11	1.91E-08	4.68E-10	2.13E-09	0.00E+00	2.60E-09	2.87E-10	9.81E-10	0.00E+00	1.27E-09
430	420604.44	3734003.17	3.43E-09	1.57E-08	3.42E-11	1.91E-08	4.70E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.84E-10	0.00E+00	1.27E-09
431	420614.09	3734001.45	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.71E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.88E-10	0.00E+00	1.28E-09
432	420633.38	3733998	3.46E-09	1.58E-08	3.46E-11	1.93E-08	4.75E-10	2.17E-09	0.00E+00	2.64E-09	2.91E-10	9.95E-10	0.00E+00	1.29E-09
433	420643.03	3733996.27	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.17E-09	0.00E+00	2.65E-09	2.93E-10	1.00E-09	0.00E+00	1.29E-09
434	420652.68	3733994.54	3.49E-09	1.60E-08	3.49E-11	1.95E-08	4.79E-10	2.18E-09	0.00E+00	2.66E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
435	420662.33	3733992.82	3.51E-09	1.60E-08	3.51E-11	1.96E-08	4.81E-10	2.19E-09	0.00E+00	2.67E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
436	420671.98	3733991.09	3.52E-09	1.61E-08	3.52E-11	1.96E-08	4.83E-10	2.20E-09	0.00E+00	2.68E-09	2.96E-10	1.01E-09	0.00E+00	1.31E-09
437	420681.63	3733989.37	3.53E-09	1.61E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.01E-09	0.00E+00	1.31E-09
438	420691.28	3733987.64	3.54E-09	1.62E-08	3.54E-11	1.98E-08	4.86E-10	2.21E-09	0.00E+00	2.70E-09	2.98E-10	1.02E-09	0.00E+00	1.32E-09
439	420700.93	3733985.92	3.55E-09	1.62E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
440	420710.58	3733984.19	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.22E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
441	420720.22	3733982.46	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.89E-10	2.23E-09	0.00E+00	2.72E-09	3.00E-10	1.02E-09	0.00E+00	1.32E-09
442	420729.87	3733980.74	3.57E-09	1.63E-08	3.57E-11	1.99E-08	4.89E-10	2.23E-09	0.00E+00	2.72E-09	3.00E-10	1.03E-09	0.00E+00	1.33E-09
443	420758.82	3733975.56	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.23E-09	0.00E+00	2.72E-09	3.00E-10	1.02E-09	0.00E+00	1.32E-09
444	420768.47	3733973.83	3.56E-09	1.63E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
445	420778.12	3733972.11	3.55E-09	1.62E-08	3.54E-11	1.98E-08	4.86E-10	2.22E-09	0.00E+00	2.70E-09	2.98E-10	1.02E-09	0.00E+00	1.32E-09
446	420787.77	3733970.38	3.53E-09	1.62E-08	3.53E-11	1.97E-08	4.85E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.02E-09	0.00E+00	1.31E-09

447	420797.42	3733968.66	3.52E-09	1.61E-08	3.52E-11	1.97E-08	4.83E-10	2.20E-09	0.00E+00	2.68E-09	2.96E-10	1.01E-09	0.00E+00	1.31E-09
448	420807.06	3733966.93	3.50E-09	1.60E-08	3.50E-11	1.96E-08	4.80E-10	2.19E-09	0.00E+00	2.67E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
449	420380.71	3734289.99	8.24E-09	3.77E-08	8.23E-11	4.60E-08	1.13E-09	5.15E-09	0.00E+00	6.28E-09	6.93E-10	2.37E-09	0.00E+00	3.06E-09
450	420380.67	3734299.85	8.34E-09	3.81E-08	8.34E-11	4.66E-08	1.14E-09	5.21E-09	0.00E+00	6.36E-09	7.02E-10	2.40E-09	0.00E+00	3.10E-09
451	420380.63	3734309.71	8.43E-09	3.85E-08	8.42E-11	4.70E-08	1.15E-09	5.27E-09	0.00E+00	6.42E-09	7.09E-10	2.42E-09	0.00E+00	3.13E-09
452	420380.59	3734319.57	8.49E-09	3.88E-08	8.49E-11	4.74E-08	1.16E-09	5.31E-09	0.00E+00	6.47E-09	7.14E-10	2.44E-09	0.00E+00	3.15E-09
453	420380.55	3734329.43	8.54E-09	3.90E-08	8.53E-11	4.76E-08	1.17E-09	5.34E-09	0.00E+00	6.51E-09	7.18E-10	2.45E-09	0.00E+00	3.17E-09
454	420380.51	3734339.29	8.56E-09	3.91E-08	8.56E-11	4.78E-08	1.17E-09	5.35E-09	0.00E+00	6.53E-09	7.20E-10	2.46E-09	0.00E+00	3.18E-09
455	420380.47	3734349.15	8.57E-09	3.92E-08	8.57E-11	4.78E-08	1.17E-09	5.36E-09	0.00E+00	6.53E-09	7.21E-10	2.46E-09	0.00E+00	3.18E-09
456	420358.2	3734255.18	6.90E-09	3.16E-08	6.90E-11	3.85E-08	9.46E-10	4.31E-09	0.00E+00	5.26E-09	5.81E-10	1.98E-09	0.00E+00	2.56E-09
457	420362.57	3734246.51	6.94E-09	3.17E-08	6.93E-11	3.87E-08	9.51E-10	4.34E-09	0.00E+00	5.29E-09	5.84E-10	1.99E-09	0.00E+00	2.58E-09
458	420366.94	3734237.85	6.95E-09	3.18E-08	6.94E-11	3.88E-08	9.52E-10	4.34E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
459	420388.8	3734194.54	6.66E-09	3.04E-08	6.66E-11	3.72E-08	9.13E-10	4.16E-09	0.00E+00	5.08E-09	5.60E-10	1.91E-09	0.00E+00	2.47E-09
460	420393.17	3734185.87	6.54E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	0.00E+00	4.99E-09	5.50E-10	1.88E-09	0.00E+00	2.43E-09
461	420397.54	3734177.21	6.41E-09	2.93E-08	6.40E-11	3.58E-08	8.78E-10	4.00E-09	0.00E+00	4.88E-09	5.39E-10	1.84E-09	0.00E+00	2.38E-09
462	420401.91	3734168.55	6.25E-09	2.86E-08	6.25E-11	3.49E-08	8.57E-10	3.91E-09	0.00E+00	4.77E-09	5.26E-10	1.80E-09	0.00E+00	2.32E-09
463	420415.02	3734142.56	5.73E-09	2.62E-08	5.73E-11	3.20E-08	7.85E-10	3.58E-09	0.00E+00	4.37E-09	4.82E-10	1.65E-09	0.00E+00	2.13E-09
464	420419.39	3734133.9	5.54E-09	2.53E-08	5.54E-11	3.09E-08	7.59E-10	3.46E-09	0.00E+00	4.22E-09	4.66E-10	1.59E-09	0.00E+00	2.06E-09
465	420423.76	3734125.23	5.35E-09	2.45E-08	5.35E-11	2.99E-08	7.33E-10	3.34E-09	0.00E+00	4.08E-09	4.50E-10	1.54E-09	0.00E+00	1.99E-09
466	420428.14	3734116.57	5.16E-09	2.36E-08	5.16E-11	2.88E-08	7.07E-10	3.23E-09	0.00E+00	3.93E-09	4.34E-10	1.48E-09	0.00E+00	1.92E-09
467	420432.51	3734107.91	4.97E-09	2.27E-08	4.97E-11	2.78E-08	6.82E-10	3.11E-09	0.00E+00	3.79E-09	4.18E-10	1.43E-09	0.00E+00	1.85E-09
468	420436.88	3734099.25	4.78E-09	2.19E-08	4.78E-11	2.67E-08	6.56E-10	2.99E-09	0.00E+00	3.65E-09	4.03E-10	1.37E-09	0.00E+00	1.78E-09
469	420441.25	3734090.58	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
470	420445.62	3734081.92	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.07E-10	2.77E-09	0.00E+00	3.37E-09	3.72E-10	1.27E-09	0.00E+00	1.64E-09
471	420449.99	3734073.26	4.25E-09	1.94E-08	4.25E-11	2.37E-08	5.83E-10	2.66E-09	0.00E+00	3.24E-09	3.58E-10	1.22E-09	0.00E+00	1.58E-09
472	420454.36	3734064.59	4.09E-09	1.87E-08	4.08E-11	2.28E-08	5.60E-10	2.56E-09	0.00E+00	3.12E-09	3.44E-10	1.17E-09	0.00E+00	1.52E-09
473	420467.48	3734038.61	3.63E-09	1.66E-08	3.63E-11	2.03E-08	4.98E-10	2.27E-09	0.00E+00	2.77E-09	3.05E-10	1.04E-09	0.00E+00	1.35E-09
474	420471.85	3734029.94	3.49E-09	1.60E-08	3.49E-11	1.95E-08	4.79E-10	2.18E-09	0.00E+00	2.66E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
475	420476.22	3734021.28	3.36E-09	1.54E-08	3.36E-11	1.88E-08	4.61E-10	2.10E-09	0.00E+00	2.56E-09	2.83E-10	9.66E-10	0.00E+00	1.25E-09
476	420480.59	3734012.62	3.24E-09	1.48E-08	3.24E-11	1.81E-08	4.44E-10	2.02E-09	0.00E+00	2.47E-09	2.72E-10	9.30E-10	0.00E+00	1.20E-09
477	420484.96	3734003.95	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	0.00E+00	2.38E-09	2.62E-10	8.96E-10	0.00E+00	1.16E-09
478	420489.33	3733995.29	3.01E-09	1.38E-08	3.01E-11	1.68E-08	4.12E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.64E-10	0.00E+00	1.12E-09
479	420512.81	3733983.21	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	0.00E+00	2.20E-09	2.43E-10	8.31E-10	0.00E+00	1.07E-09
480	420522.36	3733981.5	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	0.00E+00	2.20E-09	2.43E-10	8.30E-10	0.00E+00	1.07E-09
481	420531.91	3733979.79	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.80E-09	0.00E+00	2.20E-09	2.43E-10	8.30E-10	0.00E+00	1.07E-09
482	420541.46	3733978.09	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.80E-09	0.00E+00	2.20E-09	2.43E-10	8.30E-10	0.00E+00	1.07E-09
483	420551.01	3733976.38	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	0.00E+00	2.20E-09	2.43E-10	8.30E-10	0.00E+00	1.07E-09
484	420560.56	3733974.67	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	0.00E+00	2.20E-09	2.43E-10	8.31E-10	0.00E+00	1.07E-09
485	420570.11	3733972.96	2.90E-09	1.32E-08	2.90E-11	1.62E-08	3.97E-10	1.81E-09	0.00E+00	2.21E-09	2.44E-10	8.33E-10	0.00E+00	1.08E-09
486	420579.67	3733971.25	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.98E-10	1.82E-09	0.00E+00	2.21E-09	2.44E-10	8.35E-10	0.00E+00	1.08E-09
487	420589.22	3733969.54	2.91E-09	1.33E-08	2.91E-11	1.63E-08	3.99E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.37E-10	0.00E+00	1.08E-09
488	420598.77	3733967.84	2.92E-09	1.34E-08	2.92E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.40E-10	0.00E+00	1.09E-09
489	420608.32	3733966.13	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	0.00E+00	2.24E-09	2.47E-10	8.43E-10	0.00E+00	1.09E-09
490	420636.98	3733961	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.85E-09	0.00E+00	2.26E-09	2.50E-10	8.52E-10	0.00E+00	1.10E-09
491	420646.53	3733959.29	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.08E-10	1.86E-09	0.00E+00	2.27E-09	2.51E-10	8.56E-10	0.00E+00	1.11E-09
492	420656.08	3733957.58	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.10E-10	1.87E-09	0.00E+00	2.28E-09	2.51E-10	8.59E-10	0.00E+00	1.11E-09
493	420665.63	3733955.88	3.00E-09	1.37E-08	3.00E-11	1.67E-08	4.11E-10	1.88E-09	0.00E+00	2.29E-09	2.52E-10	8.62E-10	0.00E+00	1.11E-09
494	420675.18	3733954.17	3.01E-09	1.38E-08	3.01E-11	1.68E-08	4.13E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.65E-10	0.00E+00	1.12E-09
495	420684.73	3733952.46	3.02E-09	1.38E-08	3.02E-11	1.69E-08	4.14E-10	1.89E-09	0.00E+00	2.30E-09	2.54E-10	8.68E-10	0.00E+00	1.12E-09
496	420694.29	3733950.75	3.03E-09	1.38E-08	3.03E-11	1.69E-08	4.15E-10	1.89E-09	0.00E+00	2.31E-09	2.55E-10	8.70E-10	0.00E+00	1.13E-09
497	420703.84	3733949.04	3.04E-09	1.39E-08	3.03E-11	1.69E-08	4.16E-10	1.90E-09	0.00E+00	2.31E-09	2.55E-10	8.72E-10	0.00E+00	1.13E-09
498	420340.71	3734289.83	6.55E-09	3.00E-08	6.55E-11	3.66E-08	8.98E-10	4.10E-09	0.00E+00	4.99E-09	5.51E-10	1.88E-09	0.00E+00	2.43E-09
499	420340.67	3734299.69	6.59E-09	3.01E-08	6.59E-11	3.68E-08	9.03E-10	4.12E-09	0.00E+00	5.02E-09	5.54E-10	1.89E-09	0.00E+00	2.45E-09
500	420340.63	3734309.55	6.61E-09	3.02E-08	6.61E-11	3.69E-08	9.07E-10	4.14E-09	0.00E+00	5.04E-09	5.56E-10	1.90E-09	0.00E+00	2.46E-09
501	420340.59	3734319.41	6.63E-09	3.03E-08	6.63E-11	3.70E-08	9.09E-10	4.14E-09	0.00E+00	5.05E-09	5.58E-10	1.90E-09	0.00E+00	2.46E-09
502	420340.55	3734329.27	6.63E-09	3.03E-08	6.63E-11	3.70E-08	9.09E-10	4.15E-09	0.00E+00	5.06E-09	5.58E-10	1.91E-09	0.00E+00	2.46E-09
503	420340.51	3734339.13	6.63E-09	3.03E-08	6.62E-11	3.70E-08	9.08E-10	4.14E-09	0.00E+00	5.05E-09	5.57E-10	1.90E-09	0.00E+00	2.46E-09
504	420340.47	3734348.99	6.61E-09	3.02E-08	6.60E-11	3.69E-08	9.06E-10	4.13E-09	0.00E+00	5.04E-09	5.56E-10	1.90E-09	0.00E+00	2.45E-09
505	420340.39	3734368.71	6.55E-09	3.00E-08	6.55E-11	3.66E-08	8.98E-10	4.10E-09	0.00E+00	5.00E-09	5.51E-10	1.88E-09	0.00E+00	2.43E-09
506	420318.06	3734255.3	5.65E-09	2.58E-08	5.64E-11	3.15E-08	7.74E-10	3.53E-09	0.00E+00	4.30E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
507	420322.39	3734246.7	5.71E-09	2.61E-08	5.71E-11	3.19E-08	7.83E-10	3.57E-09	0.00E+00	4.35E-09	4.81E-10	1.64E-09	0.00E+00	2.12E-09
508	420326.73	3734238.11	5.76E-09	2.63E-08	5.76E-11	3.22E-08	7.90E-10	3.60E-09	0.00E+00	4.39E-09	4.85E-10	1.66E-09	0.00E+00	2.14E-09
509	420331.06	3734229.52	5.80E-09	2.65E-08	5.79E-11	3.24E-08	7.95E-10	3.62E-09	0.00E+00	4.42E-09	4.88E-10	1.67E-09	0.00E+00	2.15E-09
510	420335.4	3734220.92	5.81E-09	2.66E-08	5.81E-11	3.25E-08	7.97E-10	3.64E-09	0.00E+00	4.43E-09	4.89E-10	1.67E-09	0.00E+00	2.16E-09
511	420339.73	3734212.33	5.82E-09	2.66E-08	5.81E-11	3.25E-08	7.97E-10	3.64E-09	0.00E+00	4.43E-09	4.89E-10	1.67E-09	0.00E+00	2.16E-09
512	420344.07	3734203.74	5.80E-09	2.65E-08	5.80E-11	3.24E-08	7.95E-10	3.63E-09	0.00E+00	4.42E-09	4.88E-10	1.67E-09	0.00E+00	2.15E-09
513	420348.41	3734195.15	5.77E-09	2.64E-08	5.76E-11	3.22E-08	7.91E-10	3.61E-09	0.00E+00	4.40E-09	4.85E-10	1.66E-09	0.00E+00	2.14E-09
514	420352.74	3734186.55	5.72E-09	2.61E-08	5.72E-11	3.19E-08	7.84E-10	3.57E-09	0.00E+00	4.36E-09	4.81E-10	1.64E-09	0.00E+00	2.12E-09
515	420357.08	3734177.96	5.65E-09	2.58E-08	5.65E-11	3.16E-08	7.75E-10	3.53E-09	0.00E+00	4.31E-09	4.76E-10	1.62E-09	0.00E+00	2.10E-09
516	420361.41	3734169.37	5.57E-09	2.55E-08	5.57E-11	3.11E-08	7.64E-10	3.48E-09	0.00E+00	4.25E-09	4.69E-10	1.60E-09	0.00E+00	2.07E-09
517	420387.43	3734117.81	4.85E-09	2.22E-08	4.85E-11	2.71E-08	6.66E-10	3.04E-09	0.00E+00	3.70E-09	4.08E-10	1.39E-09	0.00E+00	1.80E-09
518	420391.76	3734109.22	4.71E-09	2.15E-08	4.71E-11	2.63E-08	6.46E-10	2.95E-09	0.00E+00	3.59E-09	3.96E-10	1.35E-09	0.00E+00	1.75E-09
519	420396.1	3734100.63	4.57E-09	2.09E-08	4.57E-11	2.55E-08	6.26E-10	2.86E-09	0.00E+00	3.48E-09	3.84E-10	1.31E-09	0.00E+00	1.70E-09
520	420400.43	3734092.03	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.76E-09	0.00E+00	3.37E-09	3.72E-10	1.27E-09	0.00E+00	1.64E-09
521	420404.77	3734083.44	4.28E-09	1.96E-08	4.27E-11	2.39E-08	5.86E-10	2.67E-09	0.00E+00	3.26E-09	3.60E-10	1.23E-09	0.00E+00	1.59E-09

522	420409.11	3734074.85	4.13E-09	1.89E-08	4.13E-11	2.31E-08	5.66E-10	2.58E-09	0.00E+00	3.15E-09	3.48E-10	1.19E-09	0.00E+00	1.53E-09
523	420413.44	3734066.26	3.99E-09	1.82E-08	3.98E-11	2.23E-08	5.47E-10	2.49E-09	0.00E+00	3.04E-09	3.35E-10	1.15E-09	0.00E+00	1.48E-09
524	420426.45	3734040.48	3.57E-09	1.63E-08	3.57E-11	2.00E-08	4.90E-10	2.23E-09	0.00E+00	2.72E-09	3.01E-10	1.03E-09	0.00E+00	1.33E-09
525	420430.78	3734031.88	3.45E-09	1.58E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	0.00E+00	2.63E-09	2.90E-10	9.90E-10	0.00E+00	1.28E-09
526	420435.12	3734023.29	3.32E-09	1.52E-08	3.32E-11	1.85E-08	4.55E-10	2.08E-09	0.00E+00	2.53E-09	2.80E-10	9.55E-10	0.00E+00	1.23E-09
527	420439.46	3734014.7	3.20E-09	1.46E-08	3.20E-11	1.79E-08	4.39E-10	2.00E-09	0.00E+00	2.44E-09	2.70E-10	9.21E-10	0.00E+00	1.19E-09
528	420443.79	3734006.11	3.09E-09	1.41E-08	3.09E-11	1.72E-08	4.24E-10	1.93E-09	0.00E+00	2.36E-09	2.60E-10	8.88E-10	0.00E+00	1.15E-09
529	420448.13	3733997.51	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.09E-10	1.86E-09	0.00E+00	2.27E-09	2.51E-10	8.57E-10	0.00E+00	1.11E-09
530	420452.46	3733988.92	2.88E-09	1.32E-08	2.88E-11	1.61E-08	3.94E-10	1.80E-09	0.00E+00	2.19E-09	2.42E-10	8.27E-10	0.00E+00	1.07E-09
531	420456.8	3733980.33	2.78E-09	1.27E-08	2.78E-11	1.55E-08	3.81E-10	1.74E-09	0.00E+00	2.12E-09	2.34E-10	7.99E-10	0.00E+00	1.03E-09
532	420461.13	3733971.74	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.72E-10	0.00E+00	9.97E-10
533	420465.47	3733963.14	2.60E-09	1.19E-08	2.59E-11	1.45E-08	3.56E-10	1.62E-09	0.00E+00	1.98E-09	2.18E-10	7.46E-10	0.00E+00	9.64E-10
534	420479.28	3733952.86	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.20E-10	0.00E+00	9.31E-10
535	420488.75	3733951.16	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	0.00E+00	1.91E-09	2.10E-10	7.19E-10	0.00E+00	9.29E-10
536	420630.87	3733925.74	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	0.00E+00	1.95E-09	2.16E-10	7.36E-10	0.00E+00	9.52E-10
537	420640.34	3733924.05	2.57E-09	1.18E-08	2.57E-11	1.44E-08	3.53E-10	1.61E-09	0.00E+00	1.96E-09	2.16E-10	7.39E-10	0.00E+00	9.56E-10
538	420649.82	3733922.35	2.58E-09	1.18E-08	2.58E-11	1.44E-08	3.54E-10	1.61E-09	0.00E+00	1.97E-09	2.17E-10	7.42E-10	0.00E+00	9.60E-10
539	420659.29	3733920.66	2.59E-09	1.19E-08	2.59E-11	1.45E-08	3.55E-10	1.62E-09	0.00E+00	1.98E-09	2.18E-10	7.45E-10	0.00E+00	9.63E-10
540	420668.77	3733918.96	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.48E-10	0.00E+00	9.67E-10
541	420678.24	3733917.27	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	0.00E+00	1.99E-09	2.20E-10	7.50E-10	0.00E+00	9.70E-10
542	420687.71	3733915.57	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	0.00E+00	2.00E-09	2.20E-10	7.52E-10	0.00E+00	9.73E-10
543	420697.19	3733913.88	2.63E-09	1.20E-08	2.62E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.54E-10	0.00E+00	9.75E-10
544	420706.66	3733912.19	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.21E-10	7.56E-10	0.00E+00	9.78E-10
545	420716.14	3733910.49	2.64E-09	1.21E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.57E-10	0.00E+00	9.79E-10
546	420725.61	3733908.8	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.58E-10	0.00E+00	9.80E-10
547	420735.09	3733907.1	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
548	420744.56	3733905.41	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
549	420754.03	3733903.71	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
550	420763.51	3733902.02	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
551	420772.98	3733900.32	2.64E-09	1.21E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.57E-10	0.00E+00	9.79E-10
552	420782.46	3733898.63	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.21E-10	7.56E-10	0.00E+00	9.78E-10
553	420791.93	3733896.93	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.55E-10	0.00E+00	9.76E-10
554	420801.41	3733895.24	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.53E-10	0.00E+00	9.74E-10
555	420810.88	3733893.54	2.61E-09	1.20E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	0.00E+00	1.99E-09	2.20E-10	7.51E-10	0.00E+00	9.71E-10
556	420820.35	3733891.85	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.99E-09	2.19E-10	7.48E-10	0.00E+00	9.68E-10
557	420829.83	3733890.16	2.59E-09	1.19E-08	2.59E-11	1.45E-08	3.56E-10	1.62E-09	0.00E+00	1.98E-09	2.18E-10	7.46E-10	0.00E+00	9.64E-10
558	420300.51	3734338.97	5.23E-09	2.39E-08	5.23E-11	2.92E-08	7.17E-10	3.27E-09	0.00E+00	3.99E-09	4.40E-10	1.50E-09	0.00E+00	1.94E-09
559	420300.47	3734348.83	5.21E-09	2.38E-08	5.20E-11	2.91E-08	7.14E-10	3.26E-09	0.00E+00	3.97E-09	4.38E-10	1.50E-09	0.00E+00	1.93E-09
560	420300.39	3734368.55	5.15E-09	2.35E-08	5.15E-11	2.87E-08	7.06E-10	3.22E-09	0.00E+00	3.93E-09	4.33E-10	1.48E-09	0.00E+00	1.91E-09
561	420278.35	3734254.55	4.65E-09	2.13E-08	4.65E-11	2.60E-08	6.37E-10	2.91E-09	0.00E+00	3.54E-09	3.91E-10	1.34E-09	0.00E+00	1.73E-09
562	420282.76	3734245.81	4.72E-09	2.16E-08	4.72E-11	2.64E-08	6.47E-10	2.95E-09	0.00E+00	3.60E-09	3.97E-10	1.36E-09	0.00E+00	1.75E-09
563	420287.17	3734237.07	4.79E-09	2.19E-08	4.79E-11	2.67E-08	6.56E-10	2.99E-09	0.00E+00	3.65E-09	4.03E-10	1.38E-09	0.00E+00	1.78E-09
564	420291.58	3734228.33	4.84E-09	2.21E-08	4.84E-11	2.70E-08	6.64E-10	3.03E-09	0.00E+00	3.69E-09	4.07E-10	1.39E-09	0.00E+00	1.80E-09
565	420295.99	3734219.59	4.89E-09	2.23E-08	4.88E-11	2.73E-08	6.70E-10	3.05E-09	0.00E+00	3.72E-09	4.11E-10	1.40E-09	0.00E+00	1.81E-09
566	420300.4	3734210.85	4.92E-09	2.25E-08	4.91E-11	2.74E-08	6.74E-10	3.07E-09	0.00E+00	3.75E-09	4.14E-10	1.41E-09	0.00E+00	1.83E-09
567	420304.81	3734202.12	4.93E-09	2.26E-08	4.93E-11	2.75E-08	6.76E-10	3.08E-09	0.00E+00	3.76E-09	4.15E-10	1.42E-09	0.00E+00	1.83E-09
568	420309.22	3734193.38	4.94E-09	2.26E-08	4.93E-11	2.76E-08	6.77E-10	3.09E-09	0.00E+00	3.76E-09	4.15E-10	1.42E-09	0.00E+00	1.83E-09
569	420313.63	3734184.64	4.93E-09	2.25E-08	4.93E-11	2.75E-08	6.76E-10	3.08E-09	0.00E+00	3.76E-09	4.15E-10	1.42E-09	0.00E+00	1.83E-09
570	420318.04	3734175.9	4.91E-09	2.24E-08	4.90E-11	2.74E-08	6.73E-10	3.07E-09	0.00E+00	3.74E-09	4.13E-10	1.41E-09	0.00E+00	1.82E-09
571	420335.67	3734140.94	4.70E-09	2.15E-08	4.69E-11	2.62E-08	6.44E-10	2.94E-09	0.00E+00	3.58E-09	3.95E-10	1.35E-09	0.00E+00	1.74E-09
572	420340.08	3734132.2	4.62E-09	2.11E-08	4.61E-11	2.58E-08	6.33E-10	2.89E-09	0.00E+00	3.52E-09	3.88E-10	1.33E-09	0.00E+00	1.71E-09
573	420344.49	3734123.47	4.53E-09	2.07E-08	4.53E-11	2.53E-08	6.21E-10	2.83E-09	0.00E+00	3.45E-09	3.81E-10	1.30E-09	0.00E+00	1.68E-09
574	420348.9	3734114.73	4.43E-09	2.03E-08	4.43E-11	2.47E-08	6.08E-10	2.77E-09	0.00E+00	3.38E-09	3.73E-10	1.27E-09	0.00E+00	1.65E-09
575	420353.31	3734105.99	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	0.00E+00	3.30E-09	3.64E-10	1.24E-09	0.00E+00	1.61E-09
576	420357.72	3734097.25	4.22E-09	1.93E-08	4.22E-11	2.36E-08	5.79E-10	2.64E-09	0.00E+00	3.22E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
577	420362.13	3734088.51	4.11E-09	1.88E-08	4.11E-11	2.30E-08	5.64E-10	2.57E-09	0.00E+00	3.14E-09	3.46E-10	1.18E-09	0.00E+00	1.53E-09
578	420366.54	3734079.77	4.00E-09	1.83E-08	4.00E-11	2.23E-08	5.48E-10	2.50E-09	0.00E+00	3.05E-09	3.37E-10	1.15E-09	0.00E+00	1.49E-09
579	420388.59	3734036.08	3.41E-09	1.56E-08	3.41E-11	1.90E-08	4.68E-10	2.13E-09	0.00E+00	2.60E-09	2.87E-10	9.80E-10	0.00E+00	1.27E-09
580	420393	3734027.34	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.52E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.47E-10	0.00E+00	1.22E-09
581	420397.41	3734018.6	3.19E-09	1.46E-08	3.18E-11	1.78E-08	4.37E-10	1.99E-09	0.00E+00	2.43E-09	2.68E-10	9.15E-10	0.00E+00	1.18E-09
582	420401.82	3734009.86	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.22E-10	1.92E-09	0.00E+00	2.35E-09	2.59E-10	8.84E-10	0.00E+00	1.14E-09
583	420406.23	3734001.12	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.86E-09	0.00E+00	2.26E-09	2.50E-10	8.54E-10	0.00E+00	1.10E-09
584	420410.64	3733992.38	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.93E-10	1.79E-09	0.00E+00	2.19E-09	2.41E-10	8.24E-10	0.00E+00	1.07E-09
585	420415.04	3733983.64	2.77E-09	1.27E-08	2.77E-11	1.55E-08	3.80E-10	1.73E-09	0.00E+00	2.11E-09	2.33E-10	7.96E-10	0.00E+00	1.03E-09
586	420419.45	3733974.91	2.68E-09	1.22E-08	2.68E-11	1.49E-08	3.67E-10	1.67E-09	0.00E+00	2.04E-09	2.25E-10	7.69E-10	0.00E+00	9.95E-10
587	420423.86	3733966.17	2.59E-09	1.18E-08	2.59E-11	1.44E-08	3.55E-10	1.62E-09	0.00E+00	1.97E-09	2.18E-10	7.44E-10	0.00E+00	9.61E-10
588	420428.27	3733957.43	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	0.00E+00	1.91E-09	2.11E-10	7.19E-10	0.00E+00	9.29E-10
589	420455.55	3733920.75	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.29E-10	0.00E+00	8.14E-10
590	420465.18	3733919.03	2.19E-09	9.99E-09	2.18E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.28E-10	0.00E+00	8.12E-10
591	420474.82	3733917.3	2.18E-09	9.97E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.27E-10	0.00E+00	8.10E-10
592	420484.45	3733915.58	2.18E-09	9.95E-09	2.18E-11	1.22E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.25E-10	0.00E+00	8.09E-10
593	420494.09	3733913.86	2.17E-09	9.94E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.25E-10	0.00E+00	8.07E-10
594	420503.72	3733912.13	2.17E-09	9.93E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.24E-10	0.00E+00	8.07E-10
595	420513.36	3733910.41	2.17E-09	9.93E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.24E-10	0.00E+00	8.07E-10
596	420522.99	3733908.68	2.17E-09	9.93E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.24E-10	0.00E+00	8.07E-10

597	420532.63	3733906.96	2.18E-09	9.95E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.25E-10	0.00E+00	8.08E-10
598	420542.26	3733905.24	2.18E-09	9.96E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.26E-10	0.00E+00	8.09E-10
599	420551.9	3733903.51	2.18E-09	9.98E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	0.00E+00	1.66E-09	1.84E-10	6.27E-10	0.00E+00	8.11E-10
600	420561.54	3733901.79	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.29E-10	0.00E+00	8.13E-10
601	420571.17	3733900.07	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.01E-10	1.37E-09	0.00E+00	1.67E-09	1.85E-10	6.30E-10	0.00E+00	8.15E-10
602	420580.81	3733898.34	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.85E-10	6.32E-10	0.00E+00	8.17E-10
603	420590.44	3733896.62	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	0.00E+00	1.68E-09	1.86E-10	6.35E-10	0.00E+00	8.20E-10
604	420600.08	3733894.9	2.22E-09	1.01E-08	2.21E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.86E-10	6.37E-10	0.00E+00	8.23E-10
605	420638.62	3733888	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.89E-10	6.47E-10	0.00E+00	8.36E-10
606	420648.25	3733886.28	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.49E-10	0.00E+00	8.39E-10
607	420657.89	3733884.56	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.52E-10	0.00E+00	8.42E-10
608	420667.52	3733882.83	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.91E-10	6.54E-10	0.00E+00	8.46E-10
609	420677.16	3733881.11	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.13E-10	1.43E-09	0.00E+00	1.74E-09	1.92E-10	6.56E-10	0.00E+00	8.48E-10
610	420686.8	3733879.39	2.29E-09	1.05E-08	2.29E-11	1.28E-08	3.14E-10	1.43E-09	0.00E+00	1.75E-09	1.93E-10	6.58E-10	0.00E+00	8.51E-10
611	420696.43	3733877.66	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.15E-10	1.44E-09	0.00E+00	1.75E-09	1.93E-10	6.60E-10	0.00E+00	8.53E-10
612	420706.07	3733875.94	2.30E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.75E-09	1.94E-10	6.62E-10	0.00E+00	8.55E-10
613	420715.7	3733874.22	2.31E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.63E-10	0.00E+00	8.57E-10
614	420725.34	3733872.49	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.63E-10	0.00E+00	8.58E-10
615	420734.97	3733870.77	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.64E-10	0.00E+00	8.59E-10
616	420744.61	3733869.05	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.65E-10	0.00E+00	8.59E-10
617	420754.24	3733867.32	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.65E-10	0.00E+00	8.59E-10
618	420763.88	3733865.6	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.65E-10	0.00E+00	8.59E-10
619	420773.51	3733863.88	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.64E-10	0.00E+00	8.59E-10
620	420783.15	3733862.15	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.64E-10	0.00E+00	8.58E-10
621	420792.78	3733860.43	2.31E-09	1.05E-08	2.31E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.63E-10	0.00E+00	8.57E-10
622	420802.42	3733858.71	2.30E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.62E-10	0.00E+00	8.55E-10
623	420812.06	3733856.98	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.15E-10	1.44E-09	0.00E+00	1.75E-09	1.93E-10	6.60E-10	0.00E+00	8.53E-10
624	420821.69	3733855.26	2.29E-09	1.05E-08	2.29E-11	1.28E-08	3.14E-10	1.43E-09	0.00E+00	1.75E-09	1.93E-10	6.58E-10	0.00E+00	8.51E-10
625	420831.33	3733853.54	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.13E-10	1.43E-09	0.00E+00	1.74E-09	1.92E-10	6.56E-10	0.00E+00	8.48E-10
626	420840.96	3733851.81	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.53E-10	0.00E+00	8.45E-10
627	420260.71	3734289.5	4.29E-09	1.96E-08	4.28E-11	2.39E-08	5.87E-10	2.68E-09	0.00E+00	3.27E-09	3.61E-10	1.23E-09	0.00E+00	1.59E-09
628	420260.67	3734299.36	4.28E-09	1.96E-08	4.27E-11	2.39E-08	5.86E-10	2.67E-09	0.00E+00	3.26E-09	3.60E-10	1.23E-09	0.00E+00	1.59E-09
629	420260.63	3734309.22	4.26E-09	1.95E-08	4.26E-11	2.38E-08	5.84E-10	2.67E-09	0.00E+00	3.25E-09	3.59E-10	1.23E-09	0.00E+00	1.58E-09
630	420260.59	3734319.08	4.25E-09	1.94E-08	4.24E-11	2.37E-08	5.82E-10	2.66E-09	0.00E+00	3.24E-09	3.57E-10	1.22E-09	0.00E+00	1.58E-09
631	420260.55	3734328.94	4.23E-09	1.93E-08	4.23E-11	2.36E-08	5.80E-10	2.64E-09	0.00E+00	3.22E-09	3.56E-10	1.21E-09	0.00E+00	1.57E-09
632	420260.51	3734338.8	4.21E-09	1.92E-08	4.20E-11	2.35E-08	5.77E-10	2.63E-09	0.00E+00	3.21E-09	3.54E-10	1.21E-09	0.00E+00	1.56E-09
633	420260.47	3734348.66	4.18E-09	1.91E-08	4.18E-11	2.34E-08	5.73E-10	2.62E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
634	420260.39	3734368.38	4.13E-09	1.89E-08	4.13E-11	2.31E-08	5.67E-10	2.58E-09	0.00E+00	3.15E-09	3.48E-10	1.19E-09	0.00E+00	1.54E-09
635	420238.22	3734254.65	3.85E-09	1.76E-08	3.85E-11	2.15E-08	5.28E-10	2.41E-09	0.00E+00	2.93E-09	3.24E-10	1.11E-09	0.00E+00	1.43E-09
636	420242.59	3734245.98	3.92E-09	1.79E-08	3.92E-11	2.19E-08	5.38E-10	2.45E-09	0.00E+00	2.99E-09	3.30E-10	1.13E-09	0.00E+00	1.46E-09
637	420246.97	3734237.31	3.99E-09	1.82E-08	3.99E-11	2.23E-08	5.47E-10	2.49E-09	0.00E+00	3.04E-09	3.36E-10	1.15E-09	0.00E+00	1.48E-09
638	420264.48	3734202.61	4.19E-09	1.91E-08	4.18E-11	2.34E-08	5.74E-10	2.62E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.56E-09
639	420268.85	3734193.94	4.21E-09	1.93E-08	4.21E-11	2.35E-08	5.78E-10	2.64E-09	0.00E+00	3.21E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
640	420273.23	3734185.27	4.23E-09	1.94E-08	4.23E-11	2.36E-08	5.80E-10	2.65E-09	0.00E+00	3.23E-09	3.56E-10	1.22E-09	0.00E+00	1.57E-09
641	420277.6	3734176.6	4.24E-09	1.94E-08	4.24E-11	2.37E-08	5.82E-10	2.65E-09	0.00E+00	3.23E-09	3.57E-10	1.22E-09	0.00E+00	1.58E-09
642	420295.11	3734141.9	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
643	420299.48	3734133.23	4.14E-09	1.89E-08	4.14E-11	2.31E-08	5.67E-10	2.59E-09	0.00E+00	3.15E-09	3.48E-10	1.19E-09	0.00E+00	1.54E-09
644	420303.86	3734124.56	4.09E-09	1.87E-08	4.09E-11	2.28E-08	5.61E-10	2.56E-09	0.00E+00	3.12E-09	3.44E-10	1.18E-09	0.00E+00	1.52E-09
645	420308.24	3734115.89	4.04E-09	1.85E-08	4.03E-11	2.25E-08	5.53E-10	2.52E-09	0.00E+00	3.08E-09	3.40E-10	1.16E-09	0.00E+00	1.50E-09
646	420312.61	3734107.21	3.97E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.48E-09	0.00E+00	3.03E-09	3.34E-10	1.14E-09	0.00E+00	1.48E-09
647	420316.99	3734098.54	3.91E-09	1.79E-08	3.90E-11	2.18E-08	5.35E-10	2.44E-09	0.00E+00	2.98E-09	3.29E-10	1.12E-09	0.00E+00	1.45E-09
648	420321.36	3734089.87	3.83E-09	1.75E-08	3.83E-11	2.14E-08	5.25E-10	2.40E-09	0.00E+00	2.92E-09	3.22E-10	1.10E-09	0.00E+00	1.42E-09
649	420325.74	3734081.2	3.75E-09	1.72E-08	3.75E-11	2.10E-08	5.15E-10	2.35E-09	0.00E+00	2.86E-09	3.16E-10	1.08E-09	0.00E+00	1.39E-09
650	420330.12	3734072.52	3.67E-09	1.68E-08	3.67E-11	2.05E-08	5.03E-10	2.30E-09	0.00E+00	2.80E-09	3.09E-10	1.05E-09	0.00E+00	1.36E-09
651	420334.49	3734063.85	3.58E-09	1.64E-08	3.58E-11	2.00E-08	4.91E-10	2.24E-09	0.00E+00	2.73E-09	3.01E-10	1.03E-09	0.00E+00	1.33E-09
652	420338.87	3734055.18	3.49E-09	1.60E-08	3.49E-11	1.95E-08	4.79E-10	2.18E-09	0.00E+00	2.66E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
653	420347.62	3734037.83	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.53E-10	2.07E-09	0.00E+00	2.52E-09	2.78E-10	9.50E-10	0.00E+00	1.23E-09
654	420352	3734029.16	3.21E-09	1.47E-08	3.21E-11	1.79E-08	4.40E-10	2.01E-09	0.00E+00	2.45E-09	2.70E-10	9.22E-10	0.00E+00	1.19E-09
655	420356.37	3734020.49	3.11E-09	1.42E-08	3.11E-11	1.74E-08	4.27E-10	1.95E-09	0.00E+00	2.37E-09	2.62E-10	8.95E-10	0.00E+00	1.16E-09
656	420360.75	3734011.81	3.02E-09	1.38E-08	3.02E-11	1.68E-08	4.14E-10	1.89E-09	0.00E+00	2.30E-09	2.54E-10	8.67E-10	0.00E+00	1.12E-09
657	420365.13	3734003.14	2.93E-09	1.34E-08	2.92E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.41E-10	0.00E+00	1.09E-09
658	420387.01	3733959.78	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	0.00E+00	1.90E-09	2.09E-10	7.15E-10	0.00E+00	9.25E-10
659	420391.38	3733951.1	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.30E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.93E-10	0.00E+00	8.95E-10
660	420404.51	3733925.09	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.30E-10	0.00E+00	8.14E-10
661	420408.89	3733916.41	2.12E-09	9.71E-09	2.12E-11	1.19E-08	2.91E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.11E-10	0.00E+00	7.89E-10
662	420413.26	3733907.74	2.06E-09	9.42E-09	2.06E-11	1.15E-08	2.83E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.92E-10	0.00E+00	7.66E-10
663	420417.64	3733899.07	2.00E-09	9.15E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	0.00E+00	1.53E-09	1.68E-10	5.75E-10	0.00E+00	7.43E-10
664	420431.58	3733888.68	1.94E-09	8.85E-09	1.94E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.56E-10	0.00E+00	7.19E-10
665	420441.14	3733886.97	1.93E-09	8.83E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.62E-10	5.55E-10	0.00E+00	7.17E-10
666	420450.7	3733885.26	1.93E-09	8.80E-09	1.92E-11	1.07E-08	2.64E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.53E-10	0.00E+00	7.15E-10
667	420460.27	3733883.55	1.92E-09	8.79E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.52E-10	0.00E+00	7.14E-10
668	420469.83	3733881.84	1.92E-09	8.77E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.51E-10	0.00E+00	7.13E-10
669	420479.39	3733880.13	1.92E-09	8.76E-09	1.91E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.50E-10	0.00E+00	7.12E-10
670	420488.95	3733878.42	1.91E-09	8.76E-09	1.91E-11	1.07E-08	2.62E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.50E-10	0.00E+00	7.11E-10
671	420498.52	3733876.71	1.91E-09	8.76E-09	1.91E-11	1.07E-08	2.62E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.50E-10	0.00E+00	7.11E-10

672	420508.08	3733875	1.92E-09	8.76E-09	1.91E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.50E-10	0.00E+00	7.12E-10
673	420517.64	3733873.29	1.92E-09	8.77E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.51E-10	0.00E+00	7.12E-10
674	420527.2	3733871.58	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.52E-10	0.00E+00	7.13E-10
675	420536.77	3733869.87	1.92E-09	8.79E-09	1.92E-11	1.07E-08	2.64E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.52E-10	0.00E+00	7.14E-10
676	420546.33	3733868.16	1.93E-09	8.81E-09	1.93E-11	1.08E-08	2.64E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.54E-10	0.00E+00	7.16E-10
677	420555.89	3733866.45	1.93E-09	8.83E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.62E-10	5.55E-10	0.00E+00	7.17E-10
678	420565.45	3733864.74	1.94E-09	8.85E-09	1.94E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.56E-10	0.00E+00	7.19E-10
679	420575.02	3733863.03	1.94E-09	8.88E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.22E-10
680	420584.58	3733861.32	1.95E-09	8.91E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.60E-10	0.00E+00	7.24E-10
681	420594.14	3733859.61	1.96E-09	8.94E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.65E-10	5.62E-10	0.00E+00	7.26E-10
682	420603.7	3733857.9	1.96E-09	8.98E-09	1.96E-11	1.10E-08	2.69E-10	1.23E-09	0.00E+00	1.50E-09	1.65E-10	5.64E-10	0.00E+00	7.29E-10
683	420747.14	3733832.24	2.05E-09	9.36E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
684	420756.7	3733830.53	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
685	420766.27	3733828.82	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
686	420775.83	3733827.11	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
687	420785.39	3733825.4	2.05E-09	9.36E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.88E-10	0.00E+00	7.61E-10
688	420794.95	3733823.69	2.05E-09	9.35E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.88E-10	0.00E+00	7.60E-10
689	420804.52	3733821.98	2.04E-09	9.34E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.87E-10	0.00E+00	7.59E-10
690	420814.08	3733820.27	2.04E-09	9.32E-09	2.04E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.86E-10	0.00E+00	7.57E-10
691	420823.64	3733818.56	2.03E-09	9.29E-09	2.03E-11	1.13E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.84E-10	0.00E+00	7.55E-10
692	420833.2	3733816.85	2.03E-09	9.27E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	0.00E+00	1.54E-09	1.71E-10	5.82E-10	0.00E+00	7.53E-10
693	420842.77	3733815.14	2.02E-09	9.24E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.81E-10	0.00E+00	7.51E-10
694	420852.33	3733813.43	2.01E-09	9.20E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	0.00E+00	1.53E-09	1.69E-10	5.78E-10	0.00E+00	7.48E-10
695	420220.71	3734289.34	3.53E-09	1.61E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.01E-09	0.00E+00	1.31E-09
696	420220.67	3734299.2	3.52E-09	1.61E-08	3.51E-11	1.96E-08	4.82E-10	2.20E-09	0.00E+00	2.68E-09	2.96E-10	1.01E-09	0.00E+00	1.31E-09
697	420220.63	3734309.06	3.50E-09	1.60E-08	3.50E-11	1.95E-08	4.80E-10	2.19E-09	0.00E+00	2.67E-09	2.94E-10	1.01E-09	0.00E+00	1.30E-09
698	420220.59	3734318.92	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.18E-09	0.00E+00	2.65E-09	2.93E-10	1.00E-09	0.00E+00	1.29E-09
699	420220.55	3734328.78	3.46E-09	1.58E-08	3.46E-11	1.93E-08	4.75E-10	2.17E-09	0.00E+00	2.64E-09	2.91E-10	9.95E-10	0.00E+00	1.29E-09
700	420220.51	3734338.64	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	0.00E+00	2.63E-09	2.90E-10	9.90E-10	0.00E+00	1.28E-09
701	420220.47	3734348.5	3.42E-09	1.56E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.84E-10	0.00E+00	1.27E-09
702	420220.39	3734368.22	3.38E-09	1.55E-08	3.38E-11	1.89E-08	4.63E-10	2.11E-09	0.00E+00	2.58E-09	2.84E-10	9.71E-10	0.00E+00	1.26E-09
703	420198.46	3734254.01	3.22E-09	1.47E-08	3.22E-11	1.80E-08	4.42E-10	2.01E-09	0.00E+00	2.46E-09	2.71E-10	9.26E-10	0.00E+00	1.20E-09
704	420202.9	3734245.21	3.29E-09	1.50E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.45E-10	0.00E+00	1.22E-09
705	420207.34	3734236.42	3.35E-09	1.53E-08	3.35E-11	1.87E-08	4.59E-10	2.09E-09	0.00E+00	2.55E-09	2.82E-10	9.63E-10	0.00E+00	1.24E-09
706	420211.77	3734227.63	3.41E-09	1.56E-08	3.41E-11	1.90E-08	4.67E-10	2.13E-09	0.00E+00	2.60E-09	2.87E-10	9.80E-10	0.00E+00	1.27E-09
707	420216.21	3734218.83	3.47E-09	1.58E-08	3.46E-11	1.93E-08	4.75E-10	2.17E-09	0.00E+00	2.64E-09	2.92E-10	9.96E-10	0.00E+00	1.29E-09
708	420220.65	3734210.04	3.52E-09	1.61E-08	3.51E-11	1.96E-08	4.82E-10	2.20E-09	0.00E+00	2.68E-09	2.96E-10	1.01E-09	0.00E+00	1.31E-09
709	420225.08	3734201.25	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.23E-09	0.00E+00	2.71E-09	3.00E-10	1.02E-09	0.00E+00	1.32E-09
710	420229.52	3734192.45	3.60E-09	1.65E-08	3.60E-11	2.01E-08	4.94E-10	2.25E-09	0.00E+00	2.74E-09	3.03E-10	1.03E-09	0.00E+00	1.34E-09
711	420233.96	3734183.66	3.63E-09	1.66E-08	3.63E-11	2.03E-08	4.98E-10	2.27E-09	0.00E+00	2.77E-09	3.06E-10	1.04E-09	0.00E+00	1.35E-09
712	420238.39	3734174.87	3.66E-09	1.67E-08	3.66E-11	2.04E-08	5.02E-10	2.29E-09	0.00E+00	2.79E-09	3.08E-10	1.05E-09	0.00E+00	1.36E-09
713	420265.01	3734122.11	3.65E-09	1.67E-08	3.65E-11	2.04E-08	5.00E-10	2.28E-09	0.00E+00	2.78E-09	3.07E-10	1.05E-09	0.00E+00	1.36E-09
714	420269.45	3734113.32	3.62E-09	1.66E-08	3.62E-11	2.02E-08	4.96E-10	2.26E-09	0.00E+00	2.76E-09	3.05E-10	1.04E-09	0.00E+00	1.34E-09
715	420273.89	3734104.52	3.58E-09	1.64E-08	3.58E-11	2.00E-08	4.91E-10	2.24E-09	0.00E+00	2.73E-09	3.02E-10	1.03E-09	0.00E+00	1.33E-09
716	420278.32	3734095.73	3.54E-09	1.62E-08	3.54E-11	1.98E-08	4.85E-10	2.21E-09	0.00E+00	2.70E-09	2.98E-10	1.02E-09	0.00E+00	1.32E-09
717	420282.76	3734086.94	3.49E-09	1.60E-08	3.49E-11	1.95E-08	4.79E-10	2.18E-09	0.00E+00	2.66E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
718	420287.2	3734078.14	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.88E-10	0.00E+00	1.28E-09
719	420291.64	3734069.35	3.38E-09	1.55E-08	3.38E-11	1.89E-08	4.63E-10	2.11E-09	0.00E+00	2.58E-09	2.84E-10	9.71E-10	0.00E+00	1.26E-09
720	420296.07	3734060.56	3.32E-09	1.52E-08	3.32E-11	1.85E-08	4.55E-10	2.07E-09	0.00E+00	2.53E-09	2.79E-10	9.53E-10	0.00E+00	1.23E-09
721	420309.38	3734034.18	3.11E-09	1.42E-08	3.10E-11	1.73E-08	4.26E-10	1.94E-09	0.00E+00	2.37E-09	2.61E-10	8.92E-10	0.00E+00	1.15E-09
722	420313.82	3734025.39	3.03E-09	1.38E-08	3.03E-11	1.69E-08	4.15E-10	1.89E-09	0.00E+00	2.31E-09	2.55E-10	8.70E-10	0.00E+00	1.13E-09
723	420318.26	3734016.59	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.05E-10	1.85E-09	0.00E+00	2.25E-09	2.48E-10	8.48E-10	0.00E+00	1.10E-09
724	420322.69	3734007.8	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.80E-09	0.00E+00	2.19E-09	2.42E-10	8.25E-10	0.00E+00	1.07E-09
725	420327.13	3733999.01	2.79E-09	1.28E-08	2.79E-11	1.56E-08	3.83E-10	1.75E-09	0.00E+00	2.13E-09	2.35E-10	8.03E-10	0.00E+00	1.04E-09
726	420331.57	3733990.21	2.71E-09	1.24E-08	2.71E-11	1.52E-08	3.72E-10	1.70E-09	0.00E+00	2.07E-09	2.28E-10	7.80E-10	0.00E+00	1.01E-09
727	420336	3733981.42	2.64E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.57E-10	0.00E+00	9.79E-10
728	420340.44	3733972.63	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.35E-10	0.00E+00	9.50E-10
729	420344.88	3733963.83	2.48E-09	1.13E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.13E-10	0.00E+00	9.22E-10
730	420349.31	3733955.04	2.41E-09	1.10E-08	2.41E-11	1.34E-08	3.30E-10	1.50E-09	0.00E+00	1.83E-09	2.02E-10	6.91E-10	0.00E+00	8.94E-10
731	420362.62	3733928.66	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.01E-10	1.37E-09	0.00E+00	1.67E-09	1.85E-10	6.31E-10	0.00E+00	8.15E-10
732	420384.81	3733884.7	1.89E-09	8.64E-09	1.89E-11	1.05E-08	2.59E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.43E-10	0.00E+00	7.02E-10
733	420389.25	3733875.9	1.84E-09	8.39E-09	1.83E-11	1.02E-08	2.52E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.82E-10
734	420393.68	3733867.11	1.78E-09	8.16E-09	1.78E-11	9.96E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.13E-10	0.00E+00	6.63E-10
735	420407.81	3733856.58	1.73E-09	7.90E-09	1.73E-11	9.65E-09	2.37E-10	1.08E-09	0.00E+00	1.32E-09	1.45E-10	4.97E-10	0.00E+00	6.42E-10
736	420417.51	3733854.85	1.72E-09	7.88E-09	1.72E-11	9.62E-09	2.36E-10	1.08E-09	0.00E+00	1.31E-09	1.45E-10	4.95E-10	0.00E+00	6.40E-10
737	420427.21	3733853.11	1.72E-09	7.86E-09	1.72E-11	9.59E-09	2.36E-10	1.07E-09	0.00E+00	1.31E-09	1.45E-10	4.94E-10	0.00E+00	6.38E-10
738	420436.9	3733851.38	1.71E-09	7.83E-09	1.71E-11	9.57E-09	2.35E-10	1.07E-09	0.00E+00	1.31E-09	1.44E-10	4.92E-10	0.00E+00	6.37E-10
739	420446.6	3733849.65	1.71E-09	7.82E-09	1.71E-11	9.54E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.91E-10	0.00E+00	6.35E-10
740	420456.29	3733847.91	1.71E-09	7.80E-09	1.71E-11	9.53E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.90E-10	0.00E+00	6.34E-10
741	420465.99	3733846.18	1.71E-09	7.80E-09	1.70E-11	9.52E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.43E-10	4.90E-10	0.00E+00	6.33E-10
742	420475.68	3733844.44	1.70E-09	7.79E-09	1.70E-11	9.51E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.43E-10	4.90E-10	0.00E+00	6.33E-10
743	420485.38	3733842.71	1.70E-09	7.79E-09	1.70E-11	9.51E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.43E-10	4.90E-10	0.00E+00	6.33E-10
744	420495.07	3733840.97	1.70E-09	7.79E-09	1.70E-11	9.51E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.43E-10	4.90E-10	0.00E+00	6.33E-10
745	420504.77	3733839.24	1.71E-09	7.80E-09	1.70E-11	9.52E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.43E-10	4.90E-10	0.00E+00	6.33E-10
746	420514.46	3733837.51	1.71E-09	7.81E-09	1.71E-11	9.53E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.91E-10	0.00E+00	6.34E-10

747	420524.16	3733835.77	1.71E-09	7.82E-09	1.71E-11	9.55E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.92E-10	0.00E+00	6.35E-10
748	420533.85	3733834.04	1.71E-09	7.83E-09	1.71E-11	9.57E-09	2.35E-10	1.07E-09	0.00E+00	1.31E-09	1.44E-10	4.92E-10	0.00E+00	6.37E-10
749	420543.55	3733832.3	1.72E-09	7.85E-09	1.72E-11	9.59E-09	2.35E-10	1.07E-09	0.00E+00	1.31E-09	1.44E-10	4.94E-10	0.00E+00	6.38E-10
750	420553.24	3733830.57	1.72E-09	7.87E-09	1.72E-11	9.61E-09	2.36E-10	1.08E-09	0.00E+00	1.31E-09	1.45E-10	4.95E-10	0.00E+00	6.40E-10
751	420562.94	3733828.84	1.73E-09	7.90E-09	1.73E-11	9.64E-09	2.37E-10	1.08E-09	0.00E+00	1.32E-09	1.45E-10	4.96E-10	0.00E+00	6.42E-10
752	420572.63	3733827.1	1.73E-09	7.92E-09	1.73E-11	9.67E-09	2.38E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.98E-10	0.00E+00	6.44E-10
753	420582.33	3733825.37	1.74E-09	7.95E-09	1.74E-11	9.71E-09	2.38E-10	1.09E-09	0.00E+00	1.33E-09	1.46E-10	5.00E-10	0.00E+00	6.46E-10
754	420592.02	3733823.63	1.74E-09	7.98E-09	1.74E-11	9.74E-09	2.39E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.01E-10	0.00E+00	6.48E-10
755	420601.72	3733821.9	1.75E-09	8.01E-09	1.75E-11	9.78E-09	2.40E-10	1.10E-09	0.00E+00	1.34E-09	1.47E-10	5.03E-10	0.00E+00	6.51E-10
756	420640.5	3733814.96	1.78E-09	8.13E-09	1.78E-11	9.93E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.11E-10	0.00E+00	6.61E-10
757	420650.2	3733813.23	1.79E-09	8.16E-09	1.78E-11	9.97E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.13E-10	0.00E+00	6.63E-10
758	420659.89	3733811.49	1.79E-09	8.19E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.15E-10	0.00E+00	6.66E-10
759	420669.59	3733809.76	1.80E-09	8.22E-09	1.80E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.17E-10	0.00E+00	6.68E-10
760	420679.28	3733808.03	1.80E-09	8.25E-09	1.80E-11	1.01E-08	2.47E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.18E-10	0.00E+00	6.70E-10
761	420688.98	3733806.29	1.81E-09	8.27E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.20E-10	0.00E+00	6.72E-10
762	420698.67	3733804.56	1.81E-09	8.30E-09	1.81E-11	1.01E-08	2.49E-10	1.13E-09	0.00E+00	1.38E-09	1.53E-10	5.21E-10	0.00E+00	6.74E-10
763	420708.37	3733802.82	1.82E-09	8.31E-09	1.82E-11	1.02E-08	2.49E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.23E-10	0.00E+00	6.76E-10
764	420718.06	3733801.09	1.82E-09	8.33E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.24E-10	0.00E+00	6.77E-10
765	420727.76	3733799.36	1.83E-09	8.35E-09	1.83E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.78E-10
766	420737.45	3733797.62	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.79E-10
767	420747.15	3733795.89	1.83E-09	8.37E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.40E-09	1.54E-10	5.26E-10	0.00E+00	6.80E-10
768	420756.84	3733794.15	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.81E-10
769	420766.54	3733792.42	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.81E-10
770	420776.23	3733790.69	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.81E-10
771	420785.93	3733788.95	1.83E-09	8.37E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.26E-10	0.00E+00	6.80E-10
772	420795.62	3733787.22	1.83E-09	8.37E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.26E-10	0.00E+00	6.80E-10
773	420805.32	3733785.48	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.79E-10
774	420815.01	3733783.75	1.82E-09	8.34E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.24E-10	0.00E+00	6.78E-10
775	420824.71	3733782.01	1.82E-09	8.32E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.23E-10	0.00E+00	6.76E-10
776	420834.4	3733780.28	1.82E-09	8.31E-09	1.82E-11	1.01E-08	2.49E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.22E-10	0.00E+00	6.75E-10
777	420844.1	3733778.55	1.81E-09	8.28E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.21E-10	0.00E+00	6.73E-10
778	420853.8	3733776.81	1.81E-09	8.26E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.19E-10	0.00E+00	6.71E-10
779	420863.49	3733775.08	1.80E-09	8.23E-09	1.80E-11	1.00E-08	2.47E-10	1.13E-09	0.00E+00	1.37E-09	1.51E-10	5.17E-10	0.00E+00	6.69E-10
780	420180.71	3734289.18	2.95E-09	1.35E-08	2.94E-11	1.64E-08	4.04E-10	1.84E-09	0.00E+00	2.25E-09	2.48E-10	8.47E-10	0.00E+00	1.09E-09
781	420180.67	3734299.04	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	0.00E+00	2.23E-09	2.47E-10	8.42E-10	0.00E+00	1.09E-09
782	420180.63	3734308.9	2.92E-09	1.33E-08	2.91E-11	1.63E-08	4.00E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.38E-10	0.00E+00	1.08E-09
783	420180.59	3734318.76	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.97E-10	1.81E-09	0.00E+00	2.21E-09	2.44E-10	8.33E-10	0.00E+00	1.08E-09
784	420180.55	3734328.62	2.88E-09	1.32E-08	2.88E-11	1.61E-08	3.95E-10	1.80E-09	0.00E+00	2.20E-09	2.42E-10	8.28E-10	0.00E+00	1.07E-09
785	420180.51	3734338.48	2.87E-09	1.31E-08	2.86E-11	1.60E-08	3.93E-10	1.79E-09	0.00E+00	2.18E-09	2.41E-10	8.23E-10	0.00E+00	1.06E-09
786	420180.47	3734348.34	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.90E-10	1.78E-09	0.00E+00	2.17E-09	2.40E-10	8.18E-10	0.00E+00	1.06E-09
787	420180.39	3734368.06	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.86E-10	1.76E-09	0.00E+00	2.14E-09	2.37E-10	8.08E-10	0.00E+00	1.04E-09
788	420158.34	3734254.09	2.72E-09	1.24E-08	2.72E-11	1.52E-08	3.73E-10	1.70E-09	0.00E+00	2.07E-09	2.29E-10	7.81E-10	0.00E+00	1.01E-09
789	420162.74	3734245.36	2.78E-09	1.27E-08	2.77E-11	1.55E-08	3.80E-10	1.74E-09	0.00E+00	2.12E-09	2.33E-10	7.97E-10	0.00E+00	1.03E-09
790	420167.15	3734236.63	2.83E-09	1.29E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	0.00E+00	2.16E-09	2.38E-10	8.14E-10	0.00E+00	1.05E-09
791	420171.56	3734227.9	2.89E-09	1.32E-08	2.88E-11	1.61E-08	3.96E-10	1.80E-09	0.00E+00	2.20E-09	2.43E-10	8.29E-10	0.00E+00	1.07E-09
792	420175.96	3734219.16	2.94E-09	1.34E-08	2.94E-11	1.64E-08	4.03E-10	1.84E-09	0.00E+00	2.24E-09	2.47E-10	8.44E-10	0.00E+00	1.09E-09
793	420180.37	3734210.43	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.09E-10	1.87E-09	0.00E+00	2.28E-09	2.51E-10	8.58E-10	0.00E+00	1.11E-09
794	420184.77	3734201.7	3.03E-09	1.39E-08	3.03E-11	1.69E-08	4.16E-10	1.90E-09	0.00E+00	2.31E-09	2.55E-10	8.72E-10	0.00E+00	1.13E-09
795	420189.18	3734192.97	3.08E-09	1.41E-08	3.07E-11	1.72E-08	4.22E-10	1.92E-09	0.00E+00	2.34E-09	2.59E-10	8.84E-10	0.00E+00	1.14E-09
796	420193.58	3734184.24	3.11E-09	1.42E-08	3.11E-11	1.74E-08	4.27E-10	1.95E-09	0.00E+00	2.37E-09	2.62E-10	8.95E-10	0.00E+00	1.16E-09
797	420197.99	3734175.51	3.15E-09	1.44E-08	3.15E-11	1.76E-08	4.32E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.05E-10	0.00E+00	1.17E-09
798	420211.21	3734149.31	3.22E-09	1.47E-08	3.22E-11	1.80E-08	4.41E-10	2.01E-09	0.00E+00	2.45E-09	2.71E-10	9.25E-10	0.00E+00	1.20E-09
799	420215.61	3734140.58	3.23E-09	1.48E-08	3.23E-11	1.80E-08	4.43E-10	2.02E-09	0.00E+00	2.46E-09	2.72E-10	9.28E-10	0.00E+00	1.20E-09
800	420220.02	3734131.85	3.24E-09	1.48E-08	3.23E-11	1.81E-08	4.44E-10	2.02E-09	0.00E+00	2.47E-09	2.72E-10	9.30E-10	0.00E+00	1.20E-09
801	420224.43	3734123.12	3.24E-09	1.48E-08	3.23E-11	1.81E-08	4.44E-10	2.02E-09	0.00E+00	2.47E-09	2.72E-10	9.30E-10	0.00E+00	1.20E-09
802	420228.83	3734114.38	3.23E-09	1.48E-08	3.23E-11	1.80E-08	4.43E-10	2.02E-09	0.00E+00	2.46E-09	2.72E-10	9.28E-10	0.00E+00	1.20E-09
803	420233.24	3734105.65	3.22E-09	1.47E-08	3.21E-11	1.80E-08	4.41E-10	2.01E-09	0.00E+00	2.45E-09	2.71E-10	9.24E-10	0.00E+00	1.19E-09
804	420237.64	3734096.92	3.20E-09	1.46E-08	3.20E-11	1.78E-08	4.38E-10	2.00E-09	0.00E+00	2.44E-09	2.69E-10	9.19E-10	0.00E+00	1.19E-09
805	420242.05	3734088.19	3.17E-09	1.45E-08	3.17E-11	1.77E-08	4.35E-10	1.98E-09	0.00E+00	2.42E-09	2.67E-10	9.12E-10	0.00E+00	1.18E-09
806	420246.45	3734079.46	3.14E-09	1.44E-08	3.14E-11	1.75E-08	4.31E-10	1.96E-09	0.00E+00	2.40E-09	2.64E-10	9.03E-10	0.00E+00	1.17E-09
807	420268.48	3734035.8	2.93E-09	1.34E-08	2.92E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.41E-10	0.00E+00	1.09E-09
808	420272.89	3734027.07	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.79E-09	0.00E+00	2.19E-09	2.42E-10	8.25E-10	0.00E+00	1.07E-09
809	420277.3	3734018.34	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.86E-10	1.76E-09	0.00E+00	2.14E-09	2.37E-10	8.08E-10	0.00E+00	1.05E-09
810	420281.7	3734009.6	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	0.00E+00	2.10E-09	2.32E-10	7.91E-10	0.00E+00	1.02E-09
811	420286.11	3734000.87	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.69E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.73E-10	0.00E+00	1.00E-09
812	420290.51	3733992.14	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.55E-10	0.00E+00	9.76E-10
813	420294.92	3733983.41	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	0.00E+00	1.95E-09	2.16E-10	7.37E-10	0.00E+00	9.52E-10
814	420299.32	3733974.68	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	0.00E+00	1.91E-09	2.10E-10	7.18E-10	0.00E+00	9.29E-10
815	420303.73	3733965.95	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.34E-10	1.52E-09	0.00E+00	1.86E-09	2.05E-10	7.00E-10	0.00E+00	9.04E-10
816	420308.14	3733957.21	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	0.00E+00	1.81E-09	1.99E-10	6.81E-10	0.00E+00	8.80E-10
817	420312.54	3733948.48	2.31E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.62E-10	0.00E+00	8.56E-10
818	420325.76	3733922.29	2.12E-09	9.69E-09	2.12E-11	1.18E-08	2.90E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.09E-10	0.00E+00	7.87E-10
819	420330.17	3733913.56	2.06E-09	9.42E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.92E-10	0.00E+00	7.65E-10
820	420334.57	3733904.82	2.00E-09	9.15E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	0.00E+00	1.53E-09	1.68E-10	5.75E-10	0.00E+00	7.43E-10
821	420338.98	3733896.09	1.94E-09	8.89E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.22E-10

822	420343.38	3733887.36	1.89E-09	8.64E-09	1.89E-11	1.06E-08	2.59E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.43E-10	0.00E+00	7.02E-10
823	420347.79	3733878.63	1.84E-09	8.40E-09	1.84E-11	1.03E-08	2.52E-10	1.15E-09	0.00E+00	1.40E-09	1.55E-10	5.28E-10	0.00E+00	6.83E-10
824	420352.19	3733869.9	1.79E-09	8.17E-09	1.79E-11	9.97E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.13E-10	0.00E+00	6.64E-10
825	420356.6	3733861.16	1.74E-09	7.94E-09	1.74E-11	9.70E-09	2.38E-10	1.09E-09	0.00E+00	1.32E-09	1.46E-10	4.99E-10	0.00E+00	6.45E-10
826	420361.01	3733852.43	1.69E-09	7.73E-09	1.69E-11	9.44E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.86E-10	0.00E+00	6.28E-10
827	420365.41	3733843.7	1.65E-09	7.52E-09	1.64E-11	9.19E-09	2.26E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.73E-10	0.00E+00	6.11E-10
828	420383.85	3733824.52	1.56E-09	7.11E-09	1.56E-11	8.69E-09	2.13E-10	9.73E-10	0.00E+00	1.19E-09	1.31E-10	4.47E-10	0.00E+00	5.78E-10
829	420393.48	3733822.79	1.55E-09	7.09E-09	1.55E-11	8.66E-09	2.13E-10	9.69E-10	0.00E+00	1.18E-09	1.30E-10	4.46E-10	0.00E+00	5.76E-10
830	420403.11	3733821.07	1.55E-09	7.07E-09	1.55E-11	8.63E-09	2.12E-10	9.67E-10	0.00E+00	1.18E-09	1.30E-10	4.44E-10	0.00E+00	5.74E-10
831	420412.73	3733819.35	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.11E-10	9.64E-10	0.00E+00	1.18E-09	1.30E-10	4.43E-10	0.00E+00	5.73E-10
832	420422.36	3733817.63	1.54E-09	7.03E-09	1.54E-11	8.59E-09	2.11E-10	9.62E-10	0.00E+00	1.17E-09	1.29E-10	4.42E-10	0.00E+00	5.71E-10
833	420431.99	3733815.91	1.54E-09	7.02E-09	1.53E-11	8.57E-09	2.10E-10	9.60E-10	0.00E+00	1.17E-09	1.29E-10	4.41E-10	0.00E+00	5.70E-10
834	420441.62	3733814.18	1.53E-09	7.01E-09	1.53E-11	8.55E-09	2.10E-10	9.58E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
835	420451.24	3733812.46	1.53E-09	7.00E-09	1.53E-11	8.54E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
836	420460.87	3733810.74	1.53E-09	6.99E-09	1.53E-11	8.54E-09	2.10E-10	9.56E-10	0.00E+00	1.17E-09	1.29E-10	4.39E-10	0.00E+00	5.68E-10
837	420470.5	3733809.02	1.53E-09	6.99E-09	1.53E-11	8.53E-09	2.10E-10	9.56E-10	0.00E+00	1.17E-09	1.29E-10	4.39E-10	0.00E+00	5.68E-10
838	420480.13	3733807.3	1.53E-09	6.99E-09	1.53E-11	8.54E-09	2.10E-10	9.56E-10	0.00E+00	1.17E-09	1.29E-10	4.39E-10	0.00E+00	5.68E-10
839	420489.75	3733805.57	1.53E-09	7.00E-09	1.53E-11	8.54E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.68E-10
840	420499.38	3733803.85	1.53E-09	7.00E-09	1.53E-11	8.55E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
841	420509.01	3733802.13	1.53E-09	7.01E-09	1.53E-11	8.56E-09	2.10E-10	9.58E-10	0.00E+00	1.17E-09	1.29E-10	4.41E-10	0.00E+00	5.69E-10
842	420518.64	3733800.41	1.54E-09	7.02E-09	1.54E-11	8.57E-09	2.11E-10	9.60E-10	0.00E+00	1.17E-09	1.29E-10	4.41E-10	0.00E+00	5.71E-10
843	420528.26	3733798.69	1.54E-09	7.04E-09	1.54E-11	8.59E-09	2.11E-10	9.62E-10	0.00E+00	1.17E-09	1.29E-10	4.42E-10	0.00E+00	5.72E-10
844	420537.89	3733796.96	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.12E-10	9.65E-10	0.00E+00	1.18E-09	1.30E-10	4.43E-10	0.00E+00	5.73E-10
845	420547.52	3733795.24	1.55E-09	7.07E-09	1.55E-11	8.63E-09	2.12E-10	9.67E-10	0.00E+00	1.18E-09	1.30E-10	4.44E-10	0.00E+00	5.75E-10
846	420557.15	3733793.52	1.55E-09	7.10E-09	1.55E-11	8.66E-09	2.13E-10	9.70E-10	0.00E+00	1.18E-09	1.31E-10	4.46E-10	0.00E+00	5.77E-10
847	420566.77	3733791.8	1.56E-09	7.12E-09	1.56E-11	8.69E-09	2.13E-10	9.73E-10	0.00E+00	1.19E-09	1.31E-10	4.47E-10	0.00E+00	5.78E-10
848	420576.4	3733790.08	1.56E-09	7.14E-09	1.56E-11	8.72E-09	2.14E-10	9.77E-10	0.00E+00	1.19E-09	1.31E-10	4.49E-10	0.00E+00	5.80E-10
849	420586.03	3733788.35	1.57E-09	7.17E-09	1.57E-11	8.75E-09	2.15E-10	9.80E-10	0.00E+00	1.20E-09	1.32E-10	4.51E-10	0.00E+00	5.83E-10
850	420595.66	3733786.63	1.57E-09	7.20E-09	1.57E-11	8.79E-09	2.16E-10	9.84E-10	0.00E+00	1.20E-09	1.32E-10	4.52E-10	0.00E+00	5.85E-10
851	420605.28	3733784.91	1.58E-09	7.23E-09	1.58E-11	8.82E-09	2.17E-10	9.88E-10	0.00E+00	1.20E-09	1.33E-10	4.54E-10	0.00E+00	5.87E-10
852	420634.17	3733779.74	1.60E-09	7.31E-09	1.60E-11	8.92E-09	2.19E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.59E-10	0.00E+00	5.94E-10
853	420643.79	3733778.02	1.60E-09	7.33E-09	1.60E-11	8.95E-09	2.20E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.61E-10	0.00E+00	5.96E-10
854	420653.42	3733776.3	1.61E-09	7.36E-09	1.61E-11	8.99E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.35E-10	4.63E-10	0.00E+00	5.98E-10
855	420663.05	3733774.58	1.61E-09	7.38E-09	1.61E-11	9.01E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.36E-10	4.64E-10	0.00E+00	6.00E-10
856	420672.68	3733772.86	1.62E-09	7.41E-09	1.62E-11	9.05E-09	2.22E-10	1.01E-09	0.00E+00	1.24E-09	1.36E-10	4.66E-10	0.00E+00	6.02E-10
857	420682.3	3733771.13	1.63E-09	7.43E-09	1.62E-11	9.07E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.67E-10	0.00E+00	6.04E-10
858	420691.93	3733769.41	1.63E-09	7.46E-09	1.63E-11	9.10E-09	2.24E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.69E-10	0.00E+00	6.06E-10
859	420701.56	3733767.69	1.63E-09	7.47E-09	1.63E-11	9.13E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.70E-10	0.00E+00	6.07E-10
860	420711.19	3733765.97	1.64E-09	7.49E-09	1.64E-11	9.14E-09	2.25E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.71E-10	0.00E+00	6.08E-10
861	420720.81	3733764.25	1.64E-09	7.51E-09	1.64E-11	9.16E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.10E-10
862	420730.44	3733762.52	1.64E-09	7.52E-09	1.64E-11	9.18E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.73E-10	0.00E+00	6.11E-10
863	420740.07	3733760.8	1.65E-09	7.53E-09	1.65E-11	9.19E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.73E-10	0.00E+00	6.12E-10
864	420749.7	3733759.08	1.65E-09	7.54E-09	1.65E-11	9.21E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.13E-10
865	420759.32	3733757.36	1.65E-09	7.55E-09	1.65E-11	9.22E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.13E-10
866	420768.95	3733755.64	1.65E-09	7.55E-09	1.65E-11	9.22E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
867	420778.58	3733753.91	1.65E-09	7.55E-09	1.65E-11	9.22E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
868	420788.21	3733752.19	1.65E-09	7.55E-09	1.65E-11	9.22E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.13E-10
869	420797.83	3733750.47	1.65E-09	7.54E-09	1.65E-11	9.21E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.13E-10
870	420807.46	3733748.75	1.65E-09	7.54E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.12E-10
871	420817.09	3733747.03	1.65E-09	7.53E-09	1.65E-11	9.19E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.73E-10	0.00E+00	6.12E-10
872	420826.72	3733745.3	1.64E-09	7.52E-09	1.64E-11	9.18E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.11E-10
873	420836.34	3733743.58	1.64E-09	7.50E-09	1.64E-11	9.16E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.10E-10
874	420845.97	3733741.86	1.64E-09	7.49E-09	1.64E-11	9.14E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.70E-10	0.00E+00	6.08E-10
875	420855.6	3733740.14	1.63E-09	7.47E-09	1.63E-11	9.12E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.37E-10	4.69E-10	0.00E+00	6.07E-10
876	420865.23	3733738.42	1.63E-09	7.45E-09	1.63E-11	9.09E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.68E-10	0.00E+00	6.05E-10
877	420874.85	3733736.69	1.62E-09	7.42E-09	1.62E-11	9.06E-09	2.23E-10	1.01E-09	0.00E+00	1.24E-09	1.37E-10	4.66E-10	0.00E+00	6.03E-10
878	420140.71	3734289.02	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	0.00E+00	1.90E-09	2.09E-10	7.15E-10	0.00E+00	9.25E-10
879	420140.67	3734298.88	2.48E-09	1.13E-08	2.47E-11	1.38E-08	3.39E-10	1.55E-09	0.00E+00	1.89E-09	2.08E-10	7.11E-10	0.00E+00	9.19E-10
880	420140.63	3734308.74	2.46E-09	1.13E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.88E-09	2.07E-10	7.07E-10	0.00E+00	9.14E-10
881	420140.59	3734318.6	2.45E-09	1.12E-08	2.45E-11	1.37E-08	3.35E-10	1.53E-09	0.00E+00	1.87E-09	2.06E-10	7.03E-10	0.00E+00	9.09E-10
882	420140.55	3734328.46	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.34E-10	1.52E-09	0.00E+00	1.85E-09	2.05E-10	6.99E-10	0.00E+00	9.04E-10
883	420140.51	3734338.32	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	0.00E+00	1.84E-09	2.04E-10	6.95E-10	0.00E+00	8.99E-10
884	420140.47	3734348.18	2.40E-09	1.10E-08	2.40E-11	1.34E-08	3.30E-10	1.50E-09	0.00E+00	1.83E-09	2.02E-10	6.91E-10	0.00E+00	8.93E-10
885	420140.39	3734367.9	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	0.00E+00	1.81E-09	2.00E-10	6.83E-10	0.00E+00	8.83E-10
886	420118.23	3734254.14	2.32E-09	1.06E-08	2.32E-11	1.29E-08	3.18E-10	1.45E-09	0.00E+00	1.77E-09	1.95E-10	6.66E-10	0.00E+00	8.61E-10
887	420122.61	3734245.46	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.24E-10	1.48E-09	0.00E+00	1.80E-09	1.99E-10	6.80E-10	0.00E+00	8.79E-10
888	420126.99	3734236.78	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.31E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.94E-10	0.00E+00	8.97E-10
889	420144.51	3734202.07	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.62E-09	0.00E+00	1.98E-09	2.19E-10	7.46E-10	0.00E+00	9.65E-10
890	420148.89	3734193.39	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.58E-10	0.00E+00	9.80E-10
891	420153.27	3734184.71	2.68E-09	1.22E-08	2.68E-11	1.49E-08	3.67E-10	1.67E-09	0.00E+00	2.04E-09	2.25E-10	7.70E-10	0.00E+00	9.95E-10
892	420157.64	3734176.03	2.71E-09	1.24E-08	2.71E-11	1.52E-08	3.72E-10	1.70E-09	0.00E+00	2.07E-09	2.28E-10	7.80E-10	0.00E+00	1.01E-09
893	420170.78	3734149.99	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.84E-10	1.75E-09	0.00E+00	2.14E-09	2.36E-10	8.05E-10	0.00E+00	1.04E-09
894	420175.16	3734141.31	2.82E-09	1.29E-08	2.82E-11	1.58E-08	3.87E-10	1.77E-09	0.00E+00	2.15E-09	2.38E-10	8.11E-10	0.00E+00	1.05E-09
895	420179.54	3734132.64	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.89E-10	1.78E-09	0.00E+00	2.17E-09	2.39E-10	8.16E-10	0.00E+00	1.06E-09
896	420183.92	3734123.96	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.91E-10	1.78E-09	0.00E+00	2.17E-09	2.40E-10	8.20E-10	0.00E+00	1.06E-09

897	420188.3	3734115.28	2.86E-09	1.31E-08	2.86E-11	1.60E-08	3.92E-10	1.79E-09	0.00E+00	2.18E-09	2.41E-10	8.22E-10	0.00E+00	1.06E-09
898	420192.68	3734106.6	2.86E-09	1.31E-08	2.86E-11	1.60E-08	3.92E-10	1.79E-09	0.00E+00	2.18E-09	2.41E-10	8.23E-10	0.00E+00	1.06E-09
899	420197.06	3734097.92	2.86E-09	1.31E-08	2.86E-11	1.60E-08	3.92E-10	1.79E-09	0.00E+00	2.18E-09	2.41E-10	8.22E-10	0.00E+00	1.06E-09
900	420201.44	3734089.24	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.91E-10	1.78E-09	0.00E+00	2.18E-09	2.40E-10	8.20E-10	0.00E+00	1.06E-09
901	420205.82	3734080.56	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.90E-10	1.78E-09	0.00E+00	2.17E-09	2.39E-10	8.17E-10	0.00E+00	1.06E-09
902	420210.19	3734071.88	2.83E-09	1.29E-08	2.82E-11	1.58E-08	3.87E-10	1.77E-09	0.00E+00	2.15E-09	2.38E-10	8.12E-10	0.00E+00	1.05E-09
903	420214.57	3734063.2	2.80E-09	1.28E-08	2.80E-11	1.57E-08	3.84E-10	1.75E-09	0.00E+00	2.14E-09	2.36E-10	8.06E-10	0.00E+00	1.04E-09
904	420232.09	3734028.49	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.04E-09	2.26E-10	7.71E-10	0.00E+00	9.96E-10
905	420236.47	3734019.81	2.64E-09	1.21E-08	2.64E-11	1.48E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.82E-10
906	420240.85	3734011.13	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.47E-10	0.00E+00	9.66E-10
907	420245.23	3734002.45	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.50E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.35E-10	0.00E+00	9.50E-10
908	420262.74	3733967.74	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.23E-10	1.47E-09	0.00E+00	1.80E-09	1.98E-10	6.78E-10	0.00E+00	8.76E-10
909	420267.12	3733959.06	2.31E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.62E-10	0.00E+00	8.56E-10
910	420271.5	3733950.38	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.89E-10	6.47E-10	0.00E+00	8.36E-10
911	420284.64	3733924.34	2.09E-09	9.56E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	0.00E+00	1.59E-09	1.76E-10	6.01E-10	0.00E+00	7.77E-10
912	420289.02	3733915.66	2.04E-09	9.32E-09	2.04E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.72E-10	5.86E-10	0.00E+00	7.57E-10
913	420293.4	3733906.99	1.99E-09	9.08E-09	1.99E-11	1.11E-08	2.72E-10	1.24E-09	0.00E+00	1.51E-09	1.67E-10	5.71E-10	0.00E+00	7.38E-10
914	420297.78	3733898.31	1.93E-09	8.85E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.63E-10	5.56E-10	0.00E+00	7.19E-10
915	420302.16	3733889.63	1.88E-09	8.61E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.58E-10	5.41E-10	0.00E+00	7.00E-10
916	420306.54	3733880.95	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.81E-10
917	420310.92	3733872.27	1.79E-09	8.16E-09	1.78E-11	9.97E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.13E-10	0.00E+00	6.63E-10
918	420315.3	3733863.59	1.74E-09	7.95E-09	1.74E-11	9.71E-09	2.38E-10	1.09E-09	0.00E+00	1.33E-09	1.46E-10	5.00E-10	0.00E+00	6.46E-10
919	420319.67	3733854.91	1.69E-09	7.74E-09	1.69E-11	9.45E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.86E-10	0.00E+00	6.29E-10
920	420324.05	3733846.23	1.65E-09	7.54E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.12E-10
921	420328.43	3733837.55	1.61E-09	7.34E-09	1.60E-11	8.96E-09	2.20E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.61E-10	0.00E+00	5.96E-10
922	420341.57	3733811.52	1.49E-09	6.80E-09	1.49E-11	8.30E-09	2.04E-10	9.30E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
923	420345.95	3733802.84	1.45E-09	6.63E-09	1.45E-11	8.10E-09	1.99E-10	9.07E-10	0.00E+00	1.11E-09	1.22E-10	4.17E-10	0.00E+00	5.39E-10
924	420359.9	3733792.45	1.41E-09	6.45E-09	1.41E-11	7.87E-09	1.93E-10	8.82E-10	0.00E+00	1.08E-09	1.19E-10	4.05E-10	0.00E+00	5.24E-10
925	420388.61	3733787.31	1.40E-09	6.39E-09	1.40E-11	7.80E-09	1.92E-10	8.74E-10	0.00E+00	1.07E-09	1.18E-10	4.02E-10	0.00E+00	5.19E-10
926	420398.17	3733785.6	1.39E-09	6.37E-09	1.39E-11	7.78E-09	1.91E-10	8.71E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.18E-10
927	420407.74	3733783.89	1.39E-09	6.36E-09	1.39E-11	7.76E-09	1.91E-10	8.69E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.17E-10
928	420417.31	3733782.18	1.39E-09	6.34E-09	1.39E-11	7.75E-09	1.90E-10	8.68E-10	0.00E+00	1.06E-09	1.17E-10	3.99E-10	0.00E+00	5.15E-10
929	420426.88	3733780.47	1.39E-09	6.33E-09	1.38E-11	7.73E-09	1.90E-10	8.66E-10	0.00E+00	1.06E-09	1.17E-10	3.98E-10	0.00E+00	5.15E-10
930	420436.45	3733778.76	1.38E-09	6.33E-09	1.38E-11	7.72E-09	1.90E-10	8.65E-10	0.00E+00	1.05E-09	1.16E-10	3.98E-10	0.00E+00	5.14E-10
931	420446.02	3733777.04	1.38E-09	6.32E-09	1.38E-11	7.72E-09	1.90E-10	8.65E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.14E-10
932	420455.59	3733775.33	1.38E-09	6.32E-09	1.38E-11	7.72E-09	1.89E-10	8.64E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.13E-10
933	420465.16	3733773.62	1.38E-09	6.32E-09	1.38E-11	7.72E-09	1.89E-10	8.64E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.13E-10
934	420474.73	3733771.91	1.38E-09	6.32E-09	1.38E-11	7.72E-09	1.90E-10	8.65E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.14E-10
935	420484.3	3733770.2	1.38E-09	6.33E-09	1.38E-11	7.72E-09	1.90E-10	8.65E-10	0.00E+00	1.05E-09	1.16E-10	3.98E-10	0.00E+00	5.14E-10
936	420493.87	3733768.49	1.39E-09	6.33E-09	1.38E-11	7.73E-09	1.90E-10	8.66E-10	0.00E+00	1.06E-09	1.17E-10	3.98E-10	0.00E+00	5.15E-10
937	420503.44	3733766.77	1.39E-09	6.34E-09	1.39E-11	7.75E-09	1.90E-10	8.68E-10	0.00E+00	1.06E-09	1.17E-10	3.99E-10	0.00E+00	5.15E-10
938	420513.01	3733765.06	1.39E-09	6.36E-09	1.39E-11	7.76E-09	1.91E-10	8.69E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.17E-10
939	420522.57	3733763.35	1.39E-09	6.37E-09	1.39E-11	7.78E-09	1.91E-10	8.71E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.18E-10
940	420532.14	3733761.64	1.40E-09	6.39E-09	1.40E-11	7.80E-09	1.91E-10	8.73E-10	0.00E+00	1.06E-09	1.18E-10	4.01E-10	0.00E+00	5.19E-10
941	420541.71	3733759.93	1.40E-09	6.41E-09	1.40E-11	7.82E-09	1.92E-10	8.76E-10	0.00E+00	1.07E-09	1.18E-10	4.03E-10	0.00E+00	5.21E-10
942	420551.28	3733758.22	1.41E-09	6.42E-09	1.40E-11	7.84E-09	1.93E-10	8.79E-10	0.00E+00	1.07E-09	1.18E-10	4.04E-10	0.00E+00	5.22E-10
943	420560.85	3733756.51	1.41E-09	6.45E-09	1.41E-11	7.87E-09	1.93E-10	8.81E-10	0.00E+00	1.07E-09	1.19E-10	4.05E-10	0.00E+00	5.24E-10
944	420570.42	3733754.79	1.42E-09	6.47E-09	1.41E-11	7.90E-09	1.94E-10	8.85E-10	0.00E+00	1.08E-09	1.19E-10	4.07E-10	0.00E+00	5.26E-10
945	420579.99	3733753.08	1.42E-09	6.49E-09	1.42E-11	7.93E-09	1.95E-10	8.88E-10	0.00E+00	1.08E-09	1.20E-10	4.08E-10	0.00E+00	5.28E-10
946	420589.56	3733751.37	1.43E-09	6.52E-09	1.43E-11	7.96E-09	1.95E-10	8.91E-10	0.00E+00	1.09E-09	1.20E-10	4.10E-10	0.00E+00	5.30E-10
947	420599.13	3733749.66	1.43E-09	6.54E-09	1.43E-11	7.99E-09	1.96E-10	8.95E-10	0.00E+00	1.09E-09	1.20E-10	4.11E-10	0.00E+00	5.32E-10
948	420608.7	3733747.95	1.44E-09	6.57E-09	1.44E-11	8.02E-09	1.97E-10	8.99E-10	0.00E+00	1.10E-09	1.21E-10	4.13E-10	0.00E+00	5.34E-10
949	420618.27	3733746.24	1.44E-09	6.60E-09	1.44E-11	8.05E-09	1.98E-10	9.02E-10	0.00E+00	1.10E-09	1.21E-10	4.15E-10	0.00E+00	5.36E-10
950	420646.97	3733741.1	1.46E-09	6.67E-09	1.46E-11	8.14E-09	2.00E-10	9.12E-10	0.00E+00	1.11E-09	1.23E-10	4.19E-10	0.00E+00	5.42E-10
951	420656.54	3733739.39	1.46E-09	6.69E-09	1.46E-11	8.17E-09	2.01E-10	9.15E-10	0.00E+00	1.12E-09	1.23E-10	4.21E-10	0.00E+00	5.44E-10
952	420666.11	3733737.68	1.47E-09	6.71E-09	1.47E-11	8.19E-09	2.01E-10	9.18E-10	0.00E+00	1.12E-09	1.24E-10	4.22E-10	0.00E+00	5.45E-10
953	420675.68	3733735.97	1.47E-09	6.74E-09	1.47E-11	8.22E-09	2.02E-10	9.21E-10	0.00E+00	1.12E-09	1.24E-10	4.23E-10	0.00E+00	5.47E-10
954	420685.25	3733734.25	1.48E-09	6.75E-09	1.48E-11	8.25E-09	2.02E-10	9.24E-10	0.00E+00	1.13E-09	1.24E-10	4.24E-10	0.00E+00	5.49E-10
955	420694.82	3733732.54	1.48E-09	6.77E-09	1.48E-11	8.27E-09	2.03E-10	9.26E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.50E-10
956	420704.39	3733730.83	1.48E-09	6.79E-09	1.48E-11	8.29E-09	2.04E-10	9.28E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
957	420713.96	3733729.12	1.49E-09	6.80E-09	1.49E-11	8.31E-09	2.04E-10	9.30E-10	0.00E+00	1.13E-09	1.25E-10	4.28E-10	0.00E+00	5.53E-10
958	420723.53	3733727.41	1.49E-09	6.82E-09	1.49E-11	8.32E-09	2.04E-10	9.32E-10	0.00E+00	1.14E-09	1.25E-10	4.28E-10	0.00E+00	5.54E-10
959	420733.1	3733725.7	1.49E-09	6.83E-09	1.49E-11	8.34E-09	2.05E-10	9.34E-10	0.00E+00	1.14E-09	1.26E-10	4.29E-10	0.00E+00	5.55E-10
960	420742.67	3733723.98	1.50E-09	6.84E-09	1.50E-11	8.35E-09	2.05E-10	9.35E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
961	420752.24	3733722.27	1.50E-09	6.85E-09	1.50E-11	8.36E-09	2.05E-10	9.36E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
962	420761.81	3733720.56	1.50E-09	6.86E-09	1.50E-11	8.37E-09	2.06E-10	9.37E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.57E-10
963	420771.37	3733718.85	1.50E-09	6.86E-09	1.50E-11	8.37E-09	2.06E-10	9.38E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.57E-10
964	420780.94	3733717.14	1.50E-09	6.86E-09	1.50E-11	8.38E-09	2.06E-10	9.38E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.58E-10
965	420790.51	3733715.43	1.50E-09	6.86E-09	1.50E-11	8.37E-09	2.06E-10	9.38E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.57E-10
966	420800.08	3733713.72	1.50E-09	6.86E-09	1.50E-11	8.37E-09	2.06E-10	9.38E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.57E-10
967	420809.65	3733712	1.50E-09	6.86E-09	1.50E-11	8.37E-09	2.06E-10	9.37E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.57E-10
968	420819.22	3733710.29	1.50E-09	6.85E-09	1.50E-11	8.36E-09	2.05E-10	9.36E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
969	420828.79	3733708.58	1.50E-09	6.84E-09	1.49E-11	8.35E-09	2.05E-10	9.35E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
970	420838.36	3733706.87	1.49E-09	6.83E-09	1.49E-11	8.34E-09	2.05E-10	9.34E-10	0.00E+00	1.14E-09	1.26E-10	4.29E-10	0.00E+00	5.55E-10
971	420847.93	3733705.16	1.49E-09	6.81E-09	1.49E-11	8.32E-09	2.04E-10	9.32E-10	0.00E+00	1.14E-09	1.25E-10	4.28E-10	0.00E+00	5.54E-10

972	420857.5	3733703.45	1.49E-09	6.80E-09	1.49E-11	8.30E-09	2.04E-10	9.30E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
973	420867.07	3733701.73	1.48E-09	6.78E-09	1.48E-11	8.28E-09	2.03E-10	9.27E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.51E-10
974	420876.64	3733700.02	1.48E-09	6.76E-09	1.48E-11	8.26E-09	2.03E-10	9.25E-10	0.00E+00	1.13E-09	1.24E-10	4.25E-10	0.00E+00	5.50E-10
975	420886.21	3733698.31	1.48E-09	6.75E-09	1.47E-11	8.24E-09	2.02E-10	9.23E-10	0.00E+00	1.12E-09	1.24E-10	4.24E-10	0.00E+00	5.48E-10
976	420100.72	3734288.85	2.13E-09	9.73E-09	2.13E-11	1.19E-08	2.92E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.11E-10	0.00E+00	7.90E-10
977	420100.68	3734298.71	2.12E-09	9.67E-09	2.11E-11	1.18E-08	2.90E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.08E-10	0.00E+00	7.86E-10
978	420100.64	3734308.57	2.10E-09	9.62E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.04E-10	0.00E+00	7.81E-10
979	420100.6	3734318.43	2.09E-09	9.56E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	0.00E+00	1.59E-09	1.76E-10	6.01E-10	0.00E+00	7.77E-10
980	420100.56	3734328.29	2.08E-09	9.51E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.59E-09	1.75E-10	5.98E-10	0.00E+00	7.72E-10
981	420100.52	3734338.15	2.07E-09	9.46E-09	2.07E-11	1.15E-08	2.83E-10	1.29E-09	0.00E+00	1.58E-09	1.74E-10	5.94E-10	0.00E+00	7.68E-10
982	420100.48	3734348.01	2.06E-09	9.40E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.91E-10	0.00E+00	7.64E-10
983	420100.4	3734367.73	2.03E-09	9.30E-09	2.03E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.84E-10	0.00E+00	7.55E-10
984	420078.43	3734253.59	2.00E-09	9.13E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	0.00E+00	1.52E-09	1.68E-10	5.74E-10	0.00E+00	7.42E-10
985	420082.86	3734244.81	2.04E-09	9.33E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.55E-09	1.72E-10	5.86E-10	0.00E+00	7.58E-10
986	420087.29	3734236.03	2.08E-09	9.51E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.59E-09	1.75E-10	5.98E-10	0.00E+00	7.73E-10
987	420091.72	3734227.25	2.12E-09	9.71E-09	2.12E-11	1.19E-08	2.91E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.10E-10	0.00E+00	7.89E-10
988	420096.14	3734218.48	2.16E-09	9.90E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.22E-10	0.00E+00	8.04E-10
989	420100.57	3734209.7	2.21E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.86E-10	6.34E-10	0.00E+00	8.19E-10
990	420105	3734200.92	2.24E-09	1.03E-08	2.24E-11	1.25E-08	3.08E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.45E-10	0.00E+00	8.34E-10
991	420109.43	3734192.15	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.13E-10	1.43E-09	0.00E+00	1.74E-09	1.92E-10	6.56E-10	0.00E+00	8.48E-10
992	420113.86	3734183.37	2.32E-09	1.06E-08	2.32E-11	1.29E-08	3.18E-10	1.45E-09	0.00E+00	1.77E-09	1.95E-10	6.67E-10	0.00E+00	8.62E-10
993	420118.29	3734174.59	2.36E-09	1.08E-08	2.35E-11	1.31E-08	3.23E-10	1.47E-09	0.00E+00	1.80E-09	1.98E-10	6.77E-10	0.00E+00	8.75E-10
994	420144.86	3734121.93	2.52E-09	1.15E-08	2.52E-11	1.40E-08	3.45E-10	1.57E-09	0.00E+00	1.92E-09	2.12E-10	7.23E-10	0.00E+00	9.35E-10
995	420149.29	3734113.16	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	0.00E+00	1.93E-09	2.13E-10	7.27E-10	0.00E+00	9.40E-10
996	420153.72	3734104.38	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.30E-10	0.00E+00	9.44E-10
997	420158.15	3734095.6	2.55E-09	1.17E-08	2.55E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.32E-10	0.00E+00	9.47E-10
998	420162.57	3734086.83	2.55E-09	1.17E-08	2.55E-11	1.42E-08	3.50E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.33E-10	0.00E+00	9.48E-10
999	420167	3734078.05	2.55E-09	1.17E-08	2.55E-11	1.42E-08	3.50E-10	1.59E-09	0.00E+00	1.94E-09	2.15E-10	7.33E-10	0.00E+00	9.48E-10
1000	420171.43	3734069.27	2.55E-09	1.16E-08	2.55E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.32E-10	0.00E+00	9.46E-10
1001	420175.86	3734060.49	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	0.00E+00	1.93E-09	2.13E-10	7.29E-10	0.00E+00	9.43E-10
1002	420189.15	3734034.16	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	0.00E+00	1.90E-09	2.09E-10	7.15E-10	0.00E+00	9.24E-10
1003	420193.57	3734025.39	2.47E-09	1.13E-08	2.46E-11	1.38E-08	3.38E-10	1.54E-09	0.00E+00	1.88E-09	2.07E-10	7.08E-10	0.00E+00	9.16E-10
1004	420198	3734016.61	2.44E-09	1.12E-08	2.44E-11	1.36E-08	3.34E-10	1.53E-09	0.00E+00	1.86E-09	2.05E-10	7.01E-10	0.00E+00	9.06E-10
1005	420202.43	3734007.83	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.30E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.93E-10	0.00E+00	8.96E-10
1006	420206.86	3733999.06	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	0.00E+00	1.81E-09	2.00E-10	6.84E-10	0.00E+00	8.84E-10
1007	420211.29	3733990.28	2.34E-09	1.07E-08	2.34E-11	1.31E-08	3.21E-10	1.47E-09	0.00E+00	1.79E-09	1.97E-10	6.74E-10	0.00E+00	8.71E-10
1008	420215.72	3733981.5	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.63E-10	0.00E+00	8.57E-10
1009	420220.15	3733972.73	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.52E-10	0.00E+00	8.43E-10
1010	420224.57	3733963.95	2.23E-09	1.02E-08	2.23E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.40E-10	0.00E+00	8.28E-10
1011	420229	3733955.17	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.28E-10	0.00E+00	8.12E-10
1012	420260	3733893.73	1.87E-09	8.57E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.96E-10
1013	420264.43	3733884.96	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.26E-10	0.00E+00	6.80E-10
1014	420268.86	3733876.18	1.78E-09	8.16E-09	1.78E-11	9.96E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.13E-10	0.00E+00	6.63E-10
1015	420273.29	3733867.4	1.74E-09	7.95E-09	1.74E-11	9.71E-09	2.38E-10	1.09E-09	0.00E+00	1.33E-09	1.46E-10	5.00E-10	0.00E+00	6.46E-10
1016	420277.72	3733858.63	1.70E-09	7.76E-09	1.70E-11	9.47E-09	2.33E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.88E-10	0.00E+00	6.30E-10
1017	420282.15	3733849.85	1.65E-09	7.56E-09	1.65E-11	9.23E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
1018	420286.58	3733841.07	1.61E-09	7.37E-09	1.61E-11	9.00E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.36E-10	4.63E-10	0.00E+00	5.99E-10
1019	420299.86	3733814.74	1.49E-09	6.83E-09	1.49E-11	8.34E-09	2.05E-10	9.35E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.55E-10
1020	420304.29	3733805.97	1.46E-09	6.66E-09	1.46E-11	8.13E-09	2.00E-10	9.11E-10	0.00E+00	1.11E-09	1.23E-10	4.19E-10	0.00E+00	5.41E-10
1021	420308.72	3733797.19	1.42E-09	6.50E-09	1.42E-11	7.94E-09	1.95E-10	8.89E-10	0.00E+00	1.08E-09	1.20E-10	4.09E-10	0.00E+00	5.28E-10
1022	420313.15	3733788.41	1.39E-09	6.34E-09	1.39E-11	7.75E-09	1.90E-10	8.68E-10	0.00E+00	1.06E-09	1.17E-10	3.99E-10	0.00E+00	5.15E-10
1023	420317.58	3733779.64	1.35E-09	6.19E-09	1.35E-11	7.56E-09	1.86E-10	8.47E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
1024	420322	3733770.86	1.32E-09	6.05E-09	1.32E-11	7.38E-09	1.81E-10	8.27E-10	0.00E+00	1.01E-09	1.11E-10	3.80E-10	0.00E+00	4.91E-10
1025	420336.11	3733760.35	1.29E-09	5.89E-09	1.29E-11	7.19E-09	1.76E-10	8.05E-10	0.00E+00	9.81E-10	1.08E-10	3.70E-10	0.00E+00	4.78E-10
1026	420345.79	3733758.62	1.28E-09	5.86E-09	1.28E-11	7.16E-09	1.76E-10	8.02E-10	0.00E+00	9.78E-10	1.08E-10	3.69E-10	0.00E+00	4.77E-10
1027	420355.46	3733756.89	1.28E-09	5.85E-09	1.28E-11	7.14E-09	1.75E-10	8.00E-10	0.00E+00	9.75E-10	1.08E-10	3.67E-10	0.00E+00	4.75E-10
1028	420365.14	3733755.16	1.28E-09	5.83E-09	1.27E-11	7.12E-09	1.75E-10	7.97E-10	0.00E+00	9.72E-10	1.07E-10	3.66E-10	0.00E+00	4.74E-10
1029	420384.5	3733751.7	1.27E-09	5.80E-09	1.27E-11	7.08E-09	1.74E-10	7.93E-10	0.00E+00	9.67E-10	1.07E-10	3.64E-10	0.00E+00	4.71E-10
1030	420394.17	3733749.97	1.27E-09	5.78E-09	1.26E-11	7.06E-09	1.73E-10	7.91E-10	0.00E+00	9.64E-10	1.06E-10	3.64E-10	0.00E+00	4.70E-10
1031	420403.85	3733748.23	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.90E-10	0.00E+00	9.63E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1032	420413.53	3733746.5	1.26E-09	5.77E-09	1.26E-11	7.04E-09	1.73E-10	7.89E-10	0.00E+00	9.61E-10	1.06E-10	3.62E-10	0.00E+00	4.69E-10
1033	420423.21	3733744.77	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.88E-10	0.00E+00	9.60E-10	1.06E-10	3.62E-10	0.00E+00	4.68E-10
1034	420432.88	3733743.04	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.87E-10	0.00E+00	9.60E-10	1.06E-10	3.62E-10	0.00E+00	4.68E-10
1035	420442.56	3733741.31	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.87E-10	0.00E+00	9.59E-10	1.06E-10	3.62E-10	0.00E+00	4.67E-10
1036	420452.24	3733739.58	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.87E-10	0.00E+00	9.59E-10	1.06E-10	3.62E-10	0.00E+00	4.67E-10
1037	420461.91	3733737.85	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.87E-10	0.00E+00	9.60E-10	1.06E-10	3.62E-10	0.00E+00	4.68E-10
1038	420471.59	3733736.12	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.88E-10	0.00E+00	9.60E-10	1.06E-10	3.62E-10	0.00E+00	4.68E-10
1039	420481.27	3733734.39	1.26E-09	5.77E-09	1.26E-11	7.04E-09	1.73E-10	7.89E-10	0.00E+00	9.61E-10	1.06E-10	3.62E-10	0.00E+00	4.69E-10
1040	420490.95	3733732.66	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.90E-10	0.00E+00	9.63E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1041	420500.62	3733730.93	1.27E-09	5.79E-09	1.27E-11	7.07E-09	1.74E-10	7.91E-10	0.00E+00	9.65E-10	1.07E-10	3.64E-10	0.00E+00	4.70E-10
1042	420510.3	3733729.19	1.27E-09	5.80E-09	1.27E-11	7.08E-09	1.74E-10	7.93E-10	0.00E+00	9.67E-10	1.07E-10	3.64E-10	0.00E+00	4.71E-10
1043	420519.98	3733727.46	1.27E-09	5.81E-09	1.27E-11	7.10E-09	1.74E-10	7.95E-10	0.00E+00	9.69E-10	1.07E-10	3.65E-10	0.00E+00	4.72E-10
1044	420529.66	3733725.73	1.28E-09	5.83E-09	1.27E-11	7.12E-09	1.75E-10	7.97E-10	0.00E+00	9.72E-10	1.07E-10	3.66E-10	0.00E+00	4.74E-10
1045	420539.33	3733724	1.28E-09	5.85E-09	1.28E-11	7.14E-09	1.75E-10	8.00E-10	0.00E+00	9.75E-10	1.08E-10	3.67E-10	0.00E+00	4.75E-10
1046	420549.01	3733722.27	1.28E-09	5.87E-09	1.28E-11	7.16E-09	1.76E-10	8.02E-10	0.00E+00	9.78E-10	1.08E-10	3.69E-10	0.00E+00	4.77E-10

1047	420558.69	3733720.54	1.29E-09	5.89E-09	1.29E-11	7.19E-09	1.77E-10	8.05E-10	0.00E+00	9.82E-10	1.08E-10	3.70E-10	0.00E+00	4.79E-10
1048	420568.36	3733718.81	1.29E-09	5.91E-09	1.29E-11	7.22E-09	1.77E-10	8.08E-10	0.00E+00	9.85E-10	1.09E-10	3.71E-10	0.00E+00	4.80E-10
1049	420578.04	3733717.08	1.30E-09	5.93E-09	1.30E-11	7.25E-09	1.78E-10	8.12E-10	0.00E+00	9.89E-10	1.09E-10	3.73E-10	0.00E+00	4.82E-10
1050	420587.72	3733715.35	1.30E-09	5.96E-09	1.30E-11	7.27E-09	1.79E-10	8.14E-10	0.00E+00	9.93E-10	1.10E-10	3.74E-10	0.00E+00	4.84E-10
1051	420597.4	3733713.62	1.31E-09	5.98E-09	1.31E-11	7.30E-09	1.79E-10	8.18E-10	0.00E+00	9.97E-10	1.10E-10	3.76E-10	0.00E+00	4.86E-10
1052	420607.07	3733711.89	1.31E-09	6.00E-09	1.31E-11	7.33E-09	1.80E-10	8.21E-10	0.00E+00	1.00E-09	1.10E-10	3.77E-10	0.00E+00	4.88E-10
1053	420616.75	3733710.15	1.32E-09	6.03E-09	1.32E-11	7.36E-09	1.81E-10	8.24E-10	0.00E+00	1.01E-09	1.11E-10	3.79E-10	0.00E+00	4.90E-10
1054	420626.43	3733708.42	1.32E-09	6.05E-09	1.32E-11	7.39E-09	1.81E-10	8.27E-10	0.00E+00	1.01E-09	1.11E-10	3.80E-10	0.00E+00	4.92E-10
1055	420665.14	3733701.5	1.34E-09	6.13E-09	1.34E-11	7.49E-09	1.84E-10	8.39E-10	0.00E+00	1.02E-09	1.13E-10	3.86E-10	0.00E+00	4.98E-10
1056	420674.81	3733699.77	1.35E-09	6.16E-09	1.35E-11	7.52E-09	1.85E-10	8.42E-10	0.00E+00	1.03E-09	1.13E-10	3.87E-10	0.00E+00	5.00E-10
1057	420684.49	3733698.04	1.35E-09	6.17E-09	1.35E-11	7.54E-09	1.85E-10	8.44E-10	0.00E+00	1.03E-09	1.14E-10	3.88E-10	0.00E+00	5.02E-10
1058	420694.17	3733696.31	1.35E-09	6.19E-09	1.35E-11	7.56E-09	1.86E-10	8.46E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
1059	420703.85	3733694.58	1.36E-09	6.20E-09	1.36E-11	7.57E-09	1.86E-10	8.48E-10	0.00E+00	1.03E-09	1.14E-10	3.90E-10	0.00E+00	5.04E-10
1060	420713.52	3733692.85	1.36E-09	6.22E-09	1.36E-11	7.59E-09	1.86E-10	8.50E-10	0.00E+00	1.04E-09	1.14E-10	3.91E-10	0.00E+00	5.05E-10
1061	420723.2	3733691.11	1.36E-09	6.23E-09	1.36E-11	7.61E-09	1.87E-10	8.52E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.06E-10
1062	420732.88	3733689.38	1.37E-09	6.24E-09	1.36E-11	7.62E-09	1.87E-10	8.54E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.07E-10
1063	420742.56	3733687.65	1.37E-09	6.25E-09	1.37E-11	7.63E-09	1.87E-10	8.55E-10	0.00E+00	1.04E-09	1.15E-10	3.93E-10	0.00E+00	5.08E-10
1064	420752.23	3733685.92	1.37E-09	6.26E-09	1.37E-11	7.65E-09	1.88E-10	8.57E-10	0.00E+00	1.04E-09	1.15E-10	3.94E-10	0.00E+00	5.09E-10
1065	420761.91	3733684.19	1.37E-09	6.27E-09	1.37E-11	7.65E-09	1.88E-10	8.57E-10	0.00E+00	1.04E-09	1.15E-10	3.94E-10	0.00E+00	5.09E-10
1066	420771.59	3733682.46	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.58E-10	0.00E+00	1.05E-09	1.15E-10	3.94E-10	0.00E+00	5.10E-10
1067	420781.26	3733680.73	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.58E-10	0.00E+00	1.05E-09	1.15E-10	3.94E-10	0.00E+00	5.10E-10
1068	420790.94	3733679	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.58E-10	0.00E+00	1.05E-09	1.15E-10	3.94E-10	0.00E+00	5.10E-10
1069	420800.62	3733677.27	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.58E-10	0.00E+00	1.05E-09	1.15E-10	3.94E-10	0.00E+00	5.10E-10
1070	420810.3	3733675.54	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.57E-10	0.00E+00	1.05E-09	1.15E-10	3.94E-10	0.00E+00	5.10E-10
1071	420819.97	3733673.81	1.37E-09	6.27E-09	1.37E-11	7.65E-09	1.88E-10	8.57E-10	0.00E+00	1.04E-09	1.15E-10	3.94E-10	0.00E+00	5.09E-10
1072	420829.65	3733672.07	1.37E-09	6.26E-09	1.37E-11	7.65E-09	1.88E-10	8.57E-10	0.00E+00	1.04E-09	1.15E-10	3.94E-10	0.00E+00	5.09E-10
1073	420839.33	3733670.34	1.37E-09	6.25E-09	1.37E-11	7.63E-09	1.87E-10	8.55E-10	0.00E+00	1.04E-09	1.15E-10	3.93E-10	0.00E+00	5.08E-10
1074	420849.01	3733668.61	1.37E-09	6.24E-09	1.36E-11	7.62E-09	1.87E-10	8.54E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.07E-10
1075	420858.68	3733666.88	1.36E-09	6.23E-09	1.36E-11	7.61E-09	1.87E-10	8.52E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.06E-10
1076	420868.36	3733665.15	1.36E-09	6.22E-09	1.36E-11	7.59E-09	1.86E-10	8.50E-10	0.00E+00	1.04E-09	1.14E-10	3.91E-10	0.00E+00	5.05E-10
1077	420878.04	3733663.42	1.36E-09	6.20E-09	1.36E-11	7.57E-09	1.86E-10	8.48E-10	0.00E+00	1.03E-09	1.14E-10	3.90E-10	0.00E+00	5.04E-10
1078	420887.71	3733661.69	1.35E-09	6.19E-09	1.35E-11	7.56E-09	1.86E-10	8.46E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
1079	420897.39	3733659.96	1.35E-09	6.18E-09	1.35E-11	7.54E-09	1.85E-10	8.45E-10	0.00E+00	1.03E-09	1.14E-10	3.88E-10	0.00E+00	5.02E-10
1080	420060.72	3734288.69	1.84E-09	8.41E-09	1.84E-11	1.03E-08	2.52E-10	1.15E-09	0.00E+00	1.40E-09	1.55E-10	5.28E-10	0.00E+00	6.83E-10
1081	420060.68	3734298.55	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.79E-10
1082	420060.64	3734308.41	1.82E-09	8.31E-09	1.82E-11	1.02E-08	2.49E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.23E-10	0.00E+00	6.76E-10
1083	420060.6	3734318.27	1.81E-09	8.27E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.20E-10	0.00E+00	6.72E-10
1084	420060.56	3734328.13	1.80E-09	8.22E-09	1.80E-11	1.00E-08	2.47E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.17E-10	0.00E+00	6.68E-10
1085	420060.52	3734337.99	1.79E-09	8.18E-09	1.79E-11	9.98E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.14E-10	0.00E+00	6.64E-10
1086	420060.48	3734347.85	1.78E-09	8.13E-09	1.78E-11	9.93E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.11E-10	0.00E+00	6.61E-10
1087	420060.44	3734357.71	1.77E-09	8.09E-09	1.77E-11	9.88E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.08E-10	0.00E+00	6.57E-10
1088	420060.4	3734367.57	1.76E-09	8.05E-09	1.76E-11	9.83E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.06E-10	0.00E+00	6.54E-10
1089	420042.73	3734244.9	1.77E-09	8.10E-09	1.77E-11	9.89E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.09E-10	0.00E+00	6.58E-10
1090	420047.14	3734236.17	1.81E-09	8.26E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.19E-10	0.00E+00	6.71E-10
1091	420051.54	3734227.44	1.84E-09	8.42E-09	1.84E-11	1.03E-08	2.52E-10	1.15E-09	0.00E+00	1.40E-09	1.55E-10	5.29E-10	0.00E+00	6.84E-10
1092	420055.94	3734218.71	1.88E-09	8.58E-09	1.88E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.97E-10
1093	420060.35	3734209.99	1.91E-09	8.74E-09	1.91E-11	1.07E-08	2.62E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.49E-10	0.00E+00	7.10E-10
1094	420064.75	3734201.26	1.95E-09	8.90E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.23E-10
1095	420069.15	3734192.53	1.98E-09	9.06E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	0.00E+00	1.51E-09	1.67E-10	5.69E-10	0.00E+00	7.36E-10
1096	420073.56	3734183.81	2.02E-09	9.21E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.79E-10	0.00E+00	7.49E-10
1097	420077.96	3734175.08	2.05E-09	9.36E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
1098	420091.17	3734148.9	2.14E-09	9.79E-09	2.14E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.15E-10	0.00E+00	7.95E-10
1099	420095.57	3734140.17	2.17E-09	9.91E-09	2.17E-11	1.21E-08	2.97E-10	1.36E-09	0.00E+00	1.65E-09	1.82E-10	6.23E-10	0.00E+00	8.05E-10
1100	420099.98	3734131.44	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.01E-10	1.37E-09	0.00E+00	1.67E-09	1.85E-10	6.30E-10	0.00E+00	8.15E-10
1101	420104.38	3734122.72	2.22E-09	1.01E-08	2.22E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.86E-10	6.37E-10	0.00E+00	8.23E-10
1102	420108.79	3734113.99	2.24E-09	1.02E-08	2.24E-11	1.25E-08	3.07E-10	1.40E-09	0.00E+00	1.70E-09	1.88E-10	6.43E-10	0.00E+00	8.31E-10
1103	420113.19	3734105.26	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.48E-10	0.00E+00	8.37E-10
1104	420117.59	3734096.54	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.52E-10	0.00E+00	8.42E-10
1105	420122	3734087.81	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.43E-09	0.00E+00	1.74E-09	1.92E-10	6.55E-10	0.00E+00	8.47E-10
1106	420126.4	3734079.08	2.29E-09	1.05E-08	2.29E-11	1.28E-08	3.13E-10	1.43E-09	0.00E+00	1.74E-09	1.92E-10	6.57E-10	0.00E+00	8.50E-10
1107	420152.82	3734026.72	2.27E-09	1.04E-08	2.26E-11	1.26E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.51E-10	0.00E+00	8.42E-10
1108	420157.22	3734017.99	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.89E-10	6.47E-10	0.00E+00	8.36E-10
1109	420161.63	3734009.27	2.23E-09	1.02E-08	2.23E-11	1.25E-08	3.06E-10	1.40E-09	0.00E+00	1.70E-09	1.88E-10	6.42E-10	0.00E+00	8.30E-10
1110	420166.03	3734000.54	2.21E-09	1.01E-08	2.21E-11	1.24E-08	3.04E-10	1.38E-09	0.00E+00	1.69E-09	1.86E-10	6.36E-10	0.00E+00	8.23E-10
1111	420170.43	3733991.81	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.30E-10	0.00E+00	8.14E-10
1112	420174.84	3733983.09	2.17E-09	9.91E-09	2.17E-11	1.21E-08	2.97E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.23E-10	0.00E+00	8.05E-10
1113	420179.24	3733974.36	2.14E-09	9.78E-09	2.14E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.15E-10	0.00E+00	7.95E-10
1114	420183.64	3733965.63	2.11E-09	9.65E-09	2.11E-11	1.18E-08	2.89E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.07E-10	0.00E+00	7.84E-10
1115	420188.05	3733956.91	2.08E-09	9.51E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.59E-09	1.75E-10	5.98E-10	0.00E+00	7.73E-10
1116	420205.66	3733922	1.95E-09	8.90E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.23E-10
1117	420210.06	3733913.27	1.91E-09	8.73E-09	1.91E-11	1.07E-08	2.62E-10	1.19E-09	0.00E+00	1.46E-09	1.61E-10	5.49E-10	0.00E+00	7.09E-10
1118	420214.47	3733904.54	1.87E-09	8.56E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.38E-10	0.00E+00	6.95E-10
1119	420218.87	3733895.82	1.83E-09	8.39E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.82E-10
1120	420223.28	3733887.09	1.80E-09	8.21E-09	1.80E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.16E-10	0.00E+00	6.67E-10
1121	420227.68	3733878.36	1.76E-09	8.04E-09	1.76E-11	9.81E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.05E-10	0.00E+00	6.53E-10

1122	420232.08	3733869.64	1.72E-09	7.86E-09	1.72E-11	9.60E-09	2.36E-10	1.08E-09	0.00E+00	1.31E-09	1.45E-10	4.94E-10	0.00E+00	6.39E-10
1123	420236.49	3733860.91	1.68E-09	7.69E-09	1.68E-11	9.39E-09	2.31E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.83E-10	0.00E+00	6.25E-10
1124	420240.89	3733852.18	1.64E-09	7.51E-09	1.64E-11	9.17E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.10E-10
1125	420262.91	3733808.55	1.46E-09	6.68E-09	1.46E-11	8.15E-09	2.00E-10	9.13E-10	0.00E+00	1.11E-09	1.23E-10	4.20E-10	0.00E+00	5.42E-10
1126	420267.31	3733799.82	1.43E-09	6.52E-09	1.43E-11	7.96E-09	1.95E-10	8.91E-10	0.00E+00	1.09E-09	1.20E-10	4.10E-10	0.00E+00	5.30E-10
1127	420271.71	3733791.09	1.39E-09	6.37E-09	1.39E-11	7.78E-09	1.91E-10	8.71E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.17E-10
1128	420276.12	3733782.37	1.36E-09	6.22E-09	1.36E-11	7.59E-09	1.86E-10	8.50E-10	0.00E+00	1.04E-09	1.14E-10	3.91E-10	0.00E+00	5.05E-10
1129	420280.52	3733773.64	1.33E-09	6.07E-09	1.33E-11	7.42E-09	1.82E-10	8.31E-10	0.00E+00	1.01E-09	1.12E-10	3.82E-10	0.00E+00	4.94E-10
1130	420284.92	3733764.91	1.30E-09	5.94E-09	1.30E-11	7.25E-09	1.78E-10	8.12E-10	0.00E+00	9.90E-10	1.09E-10	3.73E-10	0.00E+00	4.82E-10
1131	420289.33	3733756.19	1.27E-09	5.80E-09	1.27E-11	7.08E-09	1.74E-10	7.93E-10	0.00E+00	9.67E-10	1.07E-10	3.65E-10	0.00E+00	4.71E-10
1132	420293.73	3733747.46	1.24E-09	5.67E-09	1.24E-11	6.93E-09	1.70E-10	7.76E-10	0.00E+00	9.46E-10	1.04E-10	3.57E-10	0.00E+00	4.61E-10
1133	420298.13	3733738.73	1.21E-09	5.55E-09	1.21E-11	6.77E-09	1.66E-10	7.58E-10	0.00E+00	9.25E-10	1.02E-10	3.49E-10	0.00E+00	4.51E-10
1134	420312.16	3733728.28	1.18E-09	5.41E-09	1.18E-11	6.60E-09	1.62E-10	7.39E-10	0.00E+00	9.01E-10	9.95E-11	3.40E-10	0.00E+00	4.39E-10
1135	420321.78	3733726.56	1.18E-09	5.39E-09	1.18E-11	6.58E-09	1.62E-10	7.37E-10	0.00E+00	8.98E-10	9.92E-11	3.39E-10	0.00E+00	4.38E-10
1136	420331.4	3733724.84	1.17E-09	5.37E-09	1.17E-11	6.55E-09	1.61E-10	7.34E-10	0.00E+00	8.95E-10	9.88E-11	3.37E-10	0.00E+00	4.36E-10
1137	420341.03	3733723.12	1.17E-09	5.35E-09	1.17E-11	6.53E-09	1.60E-10	7.32E-10	0.00E+00	8.92E-10	9.85E-11	3.36E-10	0.00E+00	4.35E-10
1138	420350.65	3733721.4	1.17E-09	5.34E-09	1.17E-11	6.52E-09	1.60E-10	7.30E-10	0.00E+00	8.90E-10	9.82E-11	3.35E-10	0.00E+00	4.34E-10
1139	420360.27	3733719.68	1.16E-09	5.32E-09	1.16E-11	6.50E-09	1.60E-10	7.28E-10	0.00E+00	8.87E-10	9.79E-11	3.35E-10	0.00E+00	4.32E-10
1140	420389.14	3733714.51	1.16E-09	5.29E-09	1.16E-11	6.46E-09	1.59E-10	7.24E-10	0.00E+00	8.82E-10	9.74E-11	3.33E-10	0.00E+00	4.30E-10
1141	420398.76	3733712.79	1.15E-09	5.28E-09	1.15E-11	6.45E-09	1.58E-10	7.22E-10	0.00E+00	8.80E-10	9.72E-11	3.32E-10	0.00E+00	4.29E-10
1142	420408.38	3733711.07	1.15E-09	5.28E-09	1.15E-11	6.44E-09	1.58E-10	7.22E-10	0.00E+00	8.80E-10	9.71E-11	3.32E-10	0.00E+00	4.29E-10
1143	420418	3733709.35	1.15E-09	5.27E-09	1.15E-11	6.44E-09	1.58E-10	7.21E-10	0.00E+00	8.79E-10	9.70E-11	3.31E-10	0.00E+00	4.28E-10
1144	420427.63	3733707.63	1.15E-09	5.27E-09	1.15E-11	6.43E-09	1.58E-10	7.21E-10	0.00E+00	8.79E-10	9.70E-11	3.31E-10	0.00E+00	4.28E-10
1145	420437.25	3733705.91	1.15E-09	5.27E-09	1.15E-11	6.43E-09	1.58E-10	7.21E-10	0.00E+00	8.79E-10	9.70E-11	3.31E-10	0.00E+00	4.28E-10
1146	420446.87	3733704.19	1.15E-09	5.27E-09	1.15E-11	6.44E-09	1.58E-10	7.21E-10	0.00E+00	8.79E-10	9.70E-11	3.31E-10	0.00E+00	4.28E-10
1147	420456.49	3733702.47	1.15E-09	5.28E-09	1.15E-11	6.44E-09	1.58E-10	7.22E-10	0.00E+00	8.80E-10	9.71E-11	3.32E-10	0.00E+00	4.29E-10
1148	420466.12	3733700.75	1.15E-09	5.28E-09	1.15E-11	6.45E-09	1.58E-10	7.22E-10	0.00E+00	8.80E-10	9.72E-11	3.32E-10	0.00E+00	4.29E-10
1149	420475.74	3733699.02	1.16E-09	5.29E-09	1.16E-11	6.46E-09	1.59E-10	7.24E-10	0.00E+00	8.82E-10	9.74E-11	3.33E-10	0.00E+00	4.30E-10
1150	420485.36	3733697.3	1.16E-09	5.30E-09	1.16E-11	6.47E-09	1.59E-10	7.24E-10	0.00E+00	8.83E-10	9.75E-11	3.33E-10	0.00E+00	4.30E-10
1151	420494.98	3733695.58	1.16E-09	5.31E-09	1.16E-11	6.49E-09	1.59E-10	7.26E-10	0.00E+00	8.86E-10	9.77E-11	3.34E-10	0.00E+00	4.32E-10
1152	420504.61	3733693.86	1.16E-09	5.32E-09	1.16E-11	6.50E-09	1.60E-10	7.28E-10	0.00E+00	8.87E-10	9.79E-11	3.35E-10	0.00E+00	4.32E-10
1153	420514.23	3733692.14	1.17E-09	5.34E-09	1.17E-11	6.52E-09	1.60E-10	7.30E-10	0.00E+00	8.90E-10	9.82E-11	3.35E-10	0.00E+00	4.34E-10
1154	420523.85	3733690.42	1.17E-09	5.35E-09	1.17E-11	6.53E-09	1.60E-10	7.32E-10	0.00E+00	8.92E-10	9.85E-11	3.36E-10	0.00E+00	4.35E-10
1155	420533.47	3733688.7	1.17E-09	5.37E-09	1.17E-11	6.55E-09	1.61E-10	7.34E-10	0.00E+00	8.95E-10	9.88E-11	3.37E-10	0.00E+00	4.36E-10
1156	420543.09	3733686.98	1.18E-09	5.39E-09	1.18E-11	6.58E-09	1.61E-10	7.36E-10	0.00E+00	8.98E-10	9.91E-11	3.38E-10	0.00E+00	4.38E-10
1157	420552.72	3733685.26	1.18E-09	5.41E-09	1.18E-11	6.60E-09	1.62E-10	7.39E-10	0.00E+00	9.01E-10	9.95E-11	3.40E-10	0.00E+00	4.39E-10
1158	420562.34	3733683.53	1.19E-09	5.43E-09	1.19E-11	6.63E-09	1.63E-10	7.42E-10	0.00E+00	9.05E-10	9.99E-11	3.41E-10	0.00E+00	4.41E-10
1159	420571.96	3733681.81	1.19E-09	5.44E-09	1.19E-11	6.65E-09	1.63E-10	7.45E-10	0.00E+00	9.08E-10	1.00E-10	3.42E-10	0.00E+00	4.42E-10
1160	420581.58	3733680.09	1.20E-09	5.47E-09	1.20E-11	6.68E-09	1.64E-10	7.48E-10	0.00E+00	9.12E-10	1.01E-10	3.44E-10	0.00E+00	4.44E-10
1161	420591.21	3733678.37	1.20E-09	5.49E-09	1.20E-11	6.70E-09	1.65E-10	7.51E-10	0.00E+00	9.15E-10	1.01E-10	3.45E-10	0.00E+00	4.46E-10
1162	420600.83	3733676.65	1.21E-09	5.51E-09	1.20E-11	6.73E-09	1.65E-10	7.54E-10	0.00E+00	9.19E-10	1.01E-10	3.46E-10	0.00E+00	4.48E-10
1163	420610.45	3733674.93	1.21E-09	5.53E-09	1.21E-11	6.75E-09	1.66E-10	7.57E-10	0.00E+00	9.22E-10	1.02E-10	3.48E-10	0.00E+00	4.50E-10
1164	420620.07	3733673.21	1.21E-09	5.55E-09	1.21E-11	6.78E-09	1.67E-10	7.59E-10	0.00E+00	9.26E-10	1.02E-10	3.49E-10	0.00E+00	4.51E-10
1165	420629.7	3733671.49	1.22E-09	5.57E-09	1.22E-11	6.81E-09	1.67E-10	7.62E-10	0.00E+00	9.29E-10	1.03E-10	3.50E-10	0.00E+00	4.53E-10
1166	420639.32	3733669.77	1.22E-09	5.59E-09	1.22E-11	6.83E-09	1.68E-10	7.65E-10	0.00E+00	9.32E-10	1.03E-10	3.51E-10	0.00E+00	4.54E-10
1167	420677.81	3733662.88	1.24E-09	5.67E-09	1.24E-11	6.92E-09	1.70E-10	7.75E-10	0.00E+00	9.45E-10	1.04E-10	3.56E-10	0.00E+00	4.61E-10
1168	420687.43	3733661.16	1.24E-09	5.68E-09	1.24E-11	6.94E-09	1.70E-10	7.77E-10	0.00E+00	9.47E-10	1.05E-10	3.57E-10	0.00E+00	4.62E-10
1169	420697.05	3733659.44	1.25E-09	5.70E-09	1.25E-11	6.96E-09	1.71E-10	7.79E-10	0.00E+00	9.50E-10	1.05E-10	3.58E-10	0.00E+00	4.63E-10
1170	420706.67	3733657.72	1.25E-09	5.71E-09	1.25E-11	6.97E-09	1.71E-10	7.81E-10	0.00E+00	9.52E-10	1.05E-10	3.59E-10	0.00E+00	4.64E-10
1171	420716.3	3733656	1.25E-09	5.72E-09	1.25E-11	6.99E-09	1.72E-10	7.83E-10	0.00E+00	9.54E-10	1.05E-10	3.60E-10	0.00E+00	4.65E-10
1172	420725.92	3733654.28	1.25E-09	5.74E-09	1.25E-11	7.00E-09	1.72E-10	7.84E-10	0.00E+00	9.56E-10	1.06E-10	3.60E-10	0.00E+00	4.66E-10
1173	420735.54	3733652.56	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.86E-10	0.00E+00	9.58E-10	1.06E-10	3.61E-10	0.00E+00	4.67E-10
1174	420745.16	3733650.83	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.87E-10	0.00E+00	9.59E-10	1.06E-10	3.62E-10	0.00E+00	4.67E-10
1175	420754.78	3733649.11	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.88E-10	0.00E+00	9.60E-10	1.06E-10	3.62E-10	0.00E+00	4.68E-10
1176	420764.41	3733647.39	1.26E-09	5.77E-09	1.26E-11	7.04E-09	1.73E-10	7.89E-10	0.00E+00	9.61E-10	1.06E-10	3.62E-10	0.00E+00	4.69E-10
1177	420774.03	3733645.67	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.89E-10	0.00E+00	9.62E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1178	420783.65	3733643.95	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.90E-10	0.00E+00	9.63E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1179	420793.27	3733642.23	1.26E-09	5.78E-09	1.26E-11	7.05E-09	1.73E-10	7.90E-10	0.00E+00	9.63E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1180	420802.9	3733640.51	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.90E-10	0.00E+00	9.63E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1181	420812.52	3733638.79	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.90E-10	0.00E+00	9.63E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1182	420822.14	3733637.07	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.89E-10	0.00E+00	9.62E-10	1.06E-10	3.63E-10	0.00E+00	4.69E-10
1183	420831.76	3733635.34	1.26E-09	5.77E-09	1.26E-11	7.04E-09	1.73E-10	7.89E-10	0.00E+00	9.61E-10	1.06E-10	3.62E-10	0.00E+00	4.69E-10
1184	420841.39	3733633.62	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.88E-10	0.00E+00	9.60E-10	1.06E-10	3.62E-10	0.00E+00	4.68E-10
1185	420851.01	3733631.9	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.87E-10	0.00E+00	9.59E-10	1.06E-10	3.62E-10	0.00E+00	4.67E-10
1186	420860.63	3733630.18	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.86E-10	0.00E+00	9.58E-10	1.06E-10	3.61E-10	0.00E+00	4.67E-10
1187	420870.25	3733628.46	1.25E-09	5.74E-09	1.25E-11	7.00E-09	1.72E-10	7.84E-10	0.00E+00	9.56E-10	1.06E-10	3.60E-10	0.00E+00	4.66E-10
1188	420879.87	3733626.74	1.25E-09	5.72E-09	1.25E-11	6.99E-09	1.72E-10	7.83E-10	0.00E+00	9.54E-10	1.05E-10	3.60E-10	0.00E+00	4.65E-10
1189	420889.5	3733625.02	1.25E-09	5.71E-09	1.25E-11	6.98E-09	1.71E-10	7.81E-10	0.00E+00	9.53E-10	1.05E-10	3.59E-10	0.00E+00	4.64E-10
1190	420899.12	3733623.3	1.25E-09	5.70E-09	1.25E-11	6.96E-09	1.71E-10	7.79E-10	0.00E+00	9.50E-10	1.05E-10	3.58E-10	0.00E+00	4.63E-10
1191	420908.74	3733621.58	1.24E-09	5.69E-09	1.24E-11	6.94E-09	1.70E-10	7.78E-10	0.00E+00	9.48E-10	1.05E-10	3.57E-10	0.00E+00	4.62E-10
1192	420020.72	3734288.53	1.61E-09	7.35E-09	1.61E-11	8.97E-09	2.20E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.62E-10	0.00E+00	5.97E-10
1193	420020.68	3734298.39	1.60E-09	7.30E-09	1.60E-11	8.92E-09	2.19E-10	9.99E-10	0.00E+00	1.22E-09	1.34E-10	4.59E-10	0.00E+00	5.93E-10
1194	420020.64	3734308.25	1.59E-09	7.26E-09	1.59E-11	8.87E-09	2.18E-10	9.93E-10	0.00E+00	1.21E-09	1.34E-10	4.56E-10	0.00E+00	5.90E-10
1195	420020.6	3734318.11	1.58E-09	7.22E-09	1.58E-11	8.82E-09	2.17E-10	9.88E-10	0.00E+00	1.20E-09	1.33E-10	4.54E-10	0.00E+00	5.87E-10
1196	420020.56	3734327.97	1.57E-09	7.19E-09	1.57E-11	8.78E-09	2.15E-10	9.83E-10	0.00E+00	1.20E-09	1.32E-10	4.52E-10	0.00E+00	5.84E-10

1197	420020.52	3734337.83	1.56E-09	7.15E-09	1.56E-11	8.73E-09	2.14E-10	9.78E-10	0.00E+00	1.19E-09	1.32E-10	4.49E-10	0.00E+00	5.81E-10
1198	420020.48	3734347.69	1.56E-09	7.11E-09	1.56E-11	8.69E-09	2.13E-10	9.73E-10	0.00E+00	1.19E-09	1.31E-10	4.47E-10	0.00E+00	5.78E-10
1199	420020.44	3734357.55	1.55E-09	7.08E-09	1.55E-11	8.64E-09	2.12E-10	9.68E-10	0.00E+00	1.18E-09	1.30E-10	4.45E-10	0.00E+00	5.75E-10
1200	420020.4	3734367.41	1.54E-09	7.04E-09	1.54E-11	8.60E-09	2.11E-10	9.63E-10	0.00E+00	1.17E-09	1.30E-10	4.43E-10	0.00E+00	5.72E-10
1201	420655.74	3734209.58	1.30E-08	5.92E-08	1.29E-10	7.23E-08	1.78E-09	8.10E-09	0.00E+00	9.88E-09	1.09E-09	3.72E-09	0.00E+00	4.81E-09
1202	420722.22	3734190.26	1.25E-08	5.70E-08	1.25E-10	6.96E-08	1.71E-09	7.80E-09	0.00E+00	9.51E-09	1.05E-09	3.58E-09	0.00E+00	4.63E-09
1203	420646.47	3734189.49	1.08E-08	4.95E-08	1.08E-10	6.04E-08	1.48E-09	6.77E-09	0.00E+00	8.25E-09	9.11E-10	3.11E-09	0.00E+00	4.02E-09
1204	420656.34	3734149.59	8.24E-09	3.77E-08	8.24E-11	4.60E-08	1.13E-09	5.15E-09	0.00E+00	6.28E-09	6.93E-10	2.37E-09	0.00E+00	3.06E-09
1205	420646.88	3734149.49	8.11E-09	3.71E-08	8.10E-11	4.53E-08	1.11E-09	5.07E-09	0.00E+00	6.18E-09	6.82E-10	2.33E-09	0.00E+00	3.01E-09
1206	420685.56	3734069.88	5.29E-09	2.42E-08	5.29E-11	2.96E-08	7.26E-10	3.31E-09	0.00E+00	4.04E-09	4.45E-10	1.52E-09	0.00E+00	1.97E-09
1207	420648.91	3733949.5	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.93E-10	1.79E-09	0.00E+00	2.19E-09	2.41E-10	8.24E-10	0.00E+00	1.07E-09
1208	420668.25	3733909.7	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.22E-10	0.00E+00	9.33E-10
1209	420658.78	3733909.6	2.49E-09	1.14E-08	2.48E-11	1.39E-08	3.41E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.14E-10	0.00E+00	9.23E-10
1210	420649.32	3733909.5	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.88E-09	2.07E-10	7.07E-10	0.00E+00	9.14E-10
1211	420687.6	3733869.89	2.22E-09	1.01E-08	2.22E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.87E-10	6.37E-10	0.00E+00	8.24E-10
1212	420678.13	3733869.79	2.20E-09	1.00E-08	2.20E-11	1.23E-08	3.01E-10	1.37E-09	0.00E+00	1.68E-09	1.85E-10	6.31E-10	0.00E+00	8.16E-10
1213	420668.66	3733869.7	2.18E-09	9.96E-09	2.18E-11	1.22E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.26E-10	0.00E+00	8.09E-10
1214	420659.19	3733869.6	2.16E-09	9.86E-09	2.15E-11	1.20E-08	2.96E-10	1.35E-09	0.00E+00	1.64E-09	1.81E-10	6.20E-10	0.00E+00	8.01E-10
1215	420649.72	3733869.51	2.14E-09	9.76E-09	2.13E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.14E-10	0.00E+00	7.93E-10
1216	420706.94	3733830.09	1.98E-09	9.03E-09	1.97E-11	1.10E-08	2.71E-10	1.24E-09	0.00E+00	1.51E-09	1.66E-10	5.68E-10	0.00E+00	7.34E-10
1217	420697.47	3733829.99	1.96E-09	8.96E-09	1.96E-11	1.09E-08	2.69E-10	1.23E-09	0.00E+00	1.49E-09	1.65E-10	5.63E-10	0.00E+00	7.28E-10
1218	420688	3733829.89	1.94E-09	8.89E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.22E-10
1219	420678.54	3733829.8	1.93E-09	8.81E-09	1.93E-11	1.08E-08	2.64E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.54E-10	0.00E+00	7.16E-10
1220	420669.07	3733829.7	1.91E-09	8.73E-09	1.91E-11	1.07E-08	2.62E-10	1.19E-09	0.00E+00	1.46E-09	1.61E-10	5.49E-10	0.00E+00	7.10E-10
1221	420659.6	3733829.6	1.89E-09	8.66E-09	1.89E-11	1.06E-08	2.60E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.44E-10	0.00E+00	7.03E-10
1222	420650.13	3733829.51	1.88E-09	8.58E-09	1.88E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.97E-10
1223	420726.29	3733790.28	1.78E-09	8.12E-09	1.77E-11	9.91E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.10E-10	0.00E+00	6.60E-10
1224	420716.82	3733790.18	1.76E-09	8.06E-09	1.76E-11	9.84E-09	2.42E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.06E-10	0.00E+00	6.55E-10
1225	420707.35	3733790.09	1.75E-09	8.00E-09	1.75E-11	9.77E-09	2.40E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.03E-10	0.00E+00	6.50E-10
1226	420697.88	3733789.99	1.74E-09	7.94E-09	1.74E-11	9.69E-09	2.38E-10	1.09E-09	0.00E+00	1.32E-09	1.46E-10	4.99E-10	0.00E+00	6.45E-10
1227	420688.41	3733789.89	1.72E-09	7.88E-09	1.72E-11	9.62E-09	2.36E-10	1.08E-09	0.00E+00	1.31E-09	1.45E-10	4.95E-10	0.00E+00	6.40E-10
1228	420678.94	3733789.8	1.71E-09	7.81E-09	1.71E-11	9.54E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.91E-10	0.00E+00	6.35E-10
1229	420669.47	3733789.7	1.70E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.87E-10	0.00E+00	6.30E-10
1230	420660	3733789.61	1.68E-09	7.68E-09	1.68E-11	9.38E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.83E-10	0.00E+00	6.24E-10
1231	420650.54	3733789.51	1.67E-09	7.62E-09	1.67E-11	9.30E-09	2.28E-10	1.04E-09	0.00E+00	1.27E-09	1.40E-10	4.79E-10	0.00E+00	6.19E-10
1232	420726.69	3733750.28	1.59E-09	7.25E-09	1.59E-11	8.86E-09	2.17E-10	9.92E-10	0.00E+00	1.21E-09	1.33E-10	4.56E-10	0.00E+00	5.89E-10
1233	420717.22	3733750.19	1.58E-09	7.21E-09	1.58E-11	8.80E-09	2.16E-10	9.85E-10	0.00E+00	1.20E-09	1.33E-10	4.53E-10	0.00E+00	5.85E-10
1234	420707.75	3733750.09	1.57E-09	7.16E-09	1.56E-11	8.74E-09	2.15E-10	9.79E-10	0.00E+00	1.19E-09	1.32E-10	4.50E-10	0.00E+00	5.81E-10
1235	420698.29	3733749.99	1.55E-09	7.11E-09	1.55E-11	8.68E-09	2.13E-10	9.72E-10	0.00E+00	1.18E-09	1.31E-10	4.47E-10	0.00E+00	5.77E-10
1236	420688.82	3733749.9	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.12E-10	9.65E-10	0.00E+00	1.18E-09	1.30E-10	4.43E-10	0.00E+00	5.73E-10
1237	420679.35	3733749.8	1.53E-09	7.00E-09	1.53E-11	8.55E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
1238	420669.88	3733749.7	1.52E-09	6.95E-09	1.52E-11	8.48E-09	2.08E-10	9.50E-10	0.00E+00	1.16E-09	1.28E-10	4.37E-10	0.00E+00	5.64E-10
1239	420660.41	3733749.61	1.51E-09	6.89E-09	1.51E-11	8.41E-09	2.07E-10	9.42E-10	0.00E+00	1.15E-09	1.27E-10	4.33E-10	0.00E+00	5.60E-10
1240	420650.94	3733749.51	1.50E-09	6.84E-09	1.49E-11	8.35E-09	2.05E-10	9.35E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
1241	420727.1	3733710.28	1.43E-09	6.55E-09	1.43E-11	7.99E-09	1.96E-10	8.95E-10	0.00E+00	1.09E-09	1.20E-10	4.11E-10	0.00E+00	5.32E-10
1242	420717.63	3733710.19	1.42E-09	6.51E-09	1.42E-11	7.94E-09	1.95E-10	8.90E-10	0.00E+00	1.08E-09	1.20E-10	4.09E-10	0.00E+00	5.29E-10
1243	420708.16	3733710.09	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	0.00E+00	1.08E-09	1.19E-10	4.06E-10	0.00E+00	5.25E-10
1244	420698.69	3733710	1.40E-09	6.42E-09	1.40E-11	7.84E-09	1.92E-10	8.78E-10	0.00E+00	1.07E-09	1.18E-10	4.03E-10	0.00E+00	5.21E-10
1245	420689.22	3733709.9	1.39E-09	6.37E-09	1.39E-11	7.78E-09	1.91E-10	8.71E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.18E-10
1246	420679.75	3733709.8	1.38E-09	6.33E-09	1.38E-11	7.73E-09	1.90E-10	8.66E-10	0.00E+00	1.06E-09	1.16E-10	3.98E-10	0.00E+00	5.14E-10
1247	420670.29	3733709.71	1.37E-09	6.28E-09	1.37E-11	7.67E-09	1.88E-10	8.59E-10	0.00E+00	1.05E-09	1.16E-10	3.95E-10	0.00E+00	5.11E-10
1248	420727.51	3733670.29	1.30E-09	5.95E-09	1.30E-11	7.27E-09	1.78E-10	8.14E-10	0.00E+00	9.92E-10	1.10E-10	3.74E-10	0.00E+00	4.84E-10
1249	420718.04	3733670.19	1.29E-09	5.92E-09	1.29E-11	7.22E-09	1.77E-10	8.09E-10	0.00E+00	9.87E-10	1.09E-10	3.72E-10	0.00E+00	4.81E-10
1250	420708.57	3733670.09	1.29E-09	5.88E-09	1.29E-11	7.18E-09	1.76E-10	8.04E-10	0.00E+00	9.80E-10	1.08E-10	3.69E-10	0.00E+00	4.78E-10
1251	420699.1	3733670	1.28E-09	5.84E-09	1.28E-11	7.13E-09	1.75E-10	7.99E-10	0.00E+00	9.74E-10	1.08E-10	3.67E-10	0.00E+00	4.75E-10
1252	420689.63	3733669.9	1.27E-09	5.80E-09	1.27E-11	7.08E-09	1.74E-10	7.93E-10	0.00E+00	9.67E-10	1.07E-10	3.65E-10	0.00E+00	4.71E-10
1253	420614.75	3734378.53	7.97E-08	3.64E-07	7.97E-10	4.45E-07	1.09E-08	4.98E-08	0.00E+00	6.08E-08	6.71E-09	2.29E-08	0.00E+00	2.96E-08
1254	420614.96	3734395.89	9.76E-08	4.46E-07	9.75E-10	5.45E-07	1.34E-08	6.10E-08	0.00E+00	7.44E-08	8.21E-09	2.80E-08	0.00E+00	3.62E-08
1255	420604.75	3734378.65	7.12E-08	3.25E-07	7.11E-10	3.97E-07	9.76E-09	4.45E-08	0.00E+00	5.43E-08	5.99E-09	2.05E-08	0.00E+00	2.64E-08
1256	420604.96	3734396.01	8.47E-08	3.87E-07	8.46E-10	4.73E-07	1.16E-08	5.29E-08	0.00E+00	6.45E-08	7.12E-09	2.43E-08	0.00E+00	3.15E-08
1257	420594.75	3734378.77	6.36E-08	2.91E-07	6.35E-10	3.55E-07	8.71E-09	3.97E-08	0.00E+00	4.84E-08	5.35E-09	1.83E-08	0.00E+00	2.36E-08
1258	420594.96	3734396.13	7.37E-08	3.37E-07	7.36E-10	4.11E-07	1.01E-08	4.61E-08	0.00E+00	5.62E-08	6.20E-09	2.12E-08	0.00E+00	2.74E-08
1259	420609.35	3734324.16	3.84E-08	1.76E-07	3.84E-10	2.15E-07	5.27E-09	2.40E-08	0.00E+00	2.93E-08	3.23E-09	1.10E-08	0.00E+00	1.43E-08
1260	420584.75	3734378.9	5.67E-08	2.59E-07	5.67E-10	3.17E-07	7.78E-09	3.55E-08	0.00E+00	4.33E-08	4.77E-09	1.63E-08	0.00E+00	2.11E-08
1261	420584.96	3734396.26	6.43E-08	2.94E-07	6.43E-10	3.59E-07	8.82E-09	4.02E-08	0.00E+00	4.90E-08	5.41E-09	1.85E-08	0.00E+00	2.39E-08
1262	420589.25	3734334.41	3.87E-08	1.77E-07	3.87E-10	2.16E-07	5.31E-09	2.42E-08	0.00E+00	2.95E-08	3.26E-09	1.11E-08	0.00E+00	1.44E-08
1263	420609.45	3734314.16	3.41E-08	1.56E-07	3.40E-10	1.90E-07	4.67E-09	2.13E-08	0.00E+00	2.60E-08	2.86E-09	9.78E-09	0.00E+00	1.26E-08
1264	420574.75	3734379.02	5.07E-08	2.32E-07	5.07E-10	2.83E-07	6.95E-09	3.17E-08	0.00E+00	3.86E-08	4.27E-09	1.46E-08	0.00E+00	1.88E-08
1265	420574.97	3734396.38	5.64E-08	2.58E-07	5.64E-10	3.15E-07	7.73E-09	3.53E-08	0.00E+00	4.30E-08	4.74E-09	1.62E-08	0.00E+00	2.10E-08
1266	420609.55	3734304.16	3.03E-08	1.38E-07	3.02E-10	1.69E-07	4.15E-09	1.89E-08	0.00E+00	2.31E-08	2.55E-09	8.70E-09	0.00E+00	1.12E-08
1267	420564.75	3734379.14	4.53E-08	2.07E-07	4.53E-10	2.53E-07	6.22E-09	2.83E-08	0.00E+00	3.46E-08	3.81E-09	1.30E-08	0.00E+00	1.68E-08
1268	420564.97	3734396.5	4.96E-08	2.27E-07	4.96E-10	2.77E-07	6.80E-09	3.10E-08	0.00E+00	3.78E-08	4.17E-09	1.43E-08	0.00E+00	1.84E-08
1269	420569.25	3734334.65	3.40E-08	1.55E-07	3.39E-10	1.90E-07	4.65E-09	2.12E-08	0.00E+00	2.59E-08	2.86E-09	9.76E-09	0.00E+00	1.26E-08
1270	420609.65	3734294.16	2.70E-08	1.23E-07	2.70E-10	1.51E-07	3.70E-09	1.69E-08	0.00E+00	2.06E-08	2.27E-09	7.75E-09	0.00E+00	1.00E-08
1271	420554.75	3734379.27	4.06E-08	1.86E-07	4.06E-10	2.27E-07	5.57E-09	2.54E-08	0.00E+00	3.10E-08	3.42E-09	1.17E-08	0.00E+00	1.51E-08

1272	420554.97	3734396.63	4.38E-08	2.00E-07	4.38E-10	2.45E-07	6.01E-09	2.74E-08	0.00E+00	3.34E-08	3.69E-09	1.26E-08	0.00E+00	1.63E-08
1273	420570.61	3734306.83	2.65E-08	1.21E-07	2.65E-10	1.48E-07	3.64E-09	1.66E-08	0.00E+00	2.02E-08	2.23E-09	7.62E-09	0.00E+00	9.86E-09
1274	420589.81	3734292.32	2.48E-08	1.14E-07	2.48E-10	1.39E-07	3.40E-09	1.55E-08	0.00E+00	1.89E-08	2.09E-09	7.13E-09	0.00E+00	9.22E-09
1275	420544.75	3734379.39	3.65E-08	1.67E-07	3.64E-10	2.03E-07	5.00E-09	2.28E-08	0.00E+00	2.78E-08	3.07E-09	1.05E-08	0.00E+00	1.35E-08
1276	420544.97	3734396.75	3.88E-08	1.78E-07	3.88E-10	2.17E-07	5.32E-09	2.43E-08	0.00E+00	2.96E-08	3.27E-09	1.12E-08	0.00E+00	1.44E-08
1277	420550.14	3734308.24	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.51E-08	0.00E+00	1.84E-08	2.04E-09	6.95E-09	0.00E+00	8.99E-09
1278	420524.76	3734379.63	2.95E-08	1.35E-07	2.95E-10	1.65E-07	4.05E-09	1.85E-08	0.00E+00	2.25E-08	2.49E-09	8.49E-09	0.00E+00	1.10E-08
1279	420524.97	3734396.99	3.08E-08	1.41E-07	3.08E-10	1.72E-07	4.23E-09	1.93E-08	0.00E+00	2.35E-08	2.59E-09	8.86E-09	0.00E+00	1.15E-08
1280	420529.81	3734309.29	2.17E-08	9.94E-08	2.17E-10	1.21E-07	2.98E-09	1.36E-08	0.00E+00	1.66E-08	1.83E-09	6.25E-09	0.00E+00	8.08E-09
1281	420504.76	3734379.88	2.42E-08	1.10E-07	2.41E-10	1.35E-07	3.31E-09	1.51E-08	0.00E+00	1.84E-08	2.03E-09	6.94E-09	0.00E+00	8.97E-09
1282	420504.97	3734397.24	2.48E-08	1.14E-07	2.48E-10	1.39E-07	3.40E-09	1.55E-08	0.00E+00	1.89E-08	2.09E-09	7.14E-09	0.00E+00	9.23E-09
1283	420577.34	3734237.67	1.42E-08	6.52E-08	1.42E-10	7.95E-08	1.95E-09	8.91E-09	0.00E+00	1.09E-08	1.20E-09	4.09E-09	0.00E+00	5.29E-09
1284	420484.76	3734380.13	1.99E-08	9.11E-08	1.99E-10	1.11E-07	2.73E-09	1.25E-08	0.00E+00	1.52E-08	1.68E-09	5.73E-09	0.00E+00	7.41E-09
1285	420484.97	3734397.49	2.03E-08	9.27E-08	2.03E-10	1.13E-07	2.78E-09	1.27E-08	0.00E+00	1.55E-08	1.71E-09	5.83E-09	0.00E+00	7.53E-09
1286	420540.03	3734233.01	1.27E-08	5.80E-08	1.27E-10	7.08E-08	1.74E-09	7.93E-09	0.00E+00	9.67E-09	1.07E-09	3.65E-09	0.00E+00	4.71E-09
1287	420464.76	3734380.37	1.66E-08	7.60E-08	1.66E-10	9.27E-08	2.28E-09	1.04E-08	0.00E+00	1.27E-08	1.40E-09	4.77E-09	0.00E+00	6.17E-09
1288	420464.97	3734397.73	1.68E-08	7.66E-08	1.67E-10	9.35E-08	2.30E-09	1.05E-08	0.00E+00	1.28E-08	1.41E-09	4.81E-09	0.00E+00	6.22E-09
1289	420470.62	3734308.06	1.49E-08	6.83E-08	1.49E-10	8.34E-08	2.05E-09	9.34E-09	0.00E+00	1.14E-08	1.26E-09	4.29E-09	0.00E+00	5.55E-09
1290	420527	3734218.42	1.12E-08	5.11E-08	1.12E-10	6.24E-08	1.53E-09	6.99E-09	0.00E+00	8.53E-09	9.41E-10	3.21E-09	0.00E+00	4.15E-09
1291	420444.76	3734380.62	1.40E-08	6.39E-08	1.40E-10	7.80E-08	1.92E-09	8.74E-09	0.00E+00	1.07E-08	1.18E-09	4.02E-09	0.00E+00	5.19E-09
1292	420444.98	3734397.98	1.40E-08	6.40E-08	1.40E-10	7.82E-08	1.92E-09	8.76E-09	0.00E+00	1.07E-08	1.18E-09	4.03E-09	0.00E+00	5.20E-09
1293	420450.36	3734308.94	1.31E-08	6.01E-08	1.31E-10	7.33E-08	1.80E-09	8.21E-09	0.00E+00	1.00E-08	1.11E-09	3.77E-09	0.00E+00	4.88E-09
1294	420485.7	3734221.99	1.04E-08	4.74E-08	1.04E-10	5.78E-08	1.42E-09	6.48E-09	0.00E+00	7.90E-09	8.72E-10	2.98E-09	0.00E+00	3.85E-09
1295	420468.38	3734215.63	9.49E-09	4.34E-08	9.49E-11	5.30E-08	1.30E-09	5.94E-09	0.00E+00	7.24E-09	7.99E-10	2.73E-09	0.00E+00	3.53E-09
1296	420607.91	3734145.51	7.45E-09	3.40E-08	7.44E-11	4.16E-08	1.02E-09	4.65E-09	0.00E+00	5.68E-09	6.26E-10	2.14E-09	0.00E+00	2.77E-09
1297	420404.76	3734381.11	1.02E-08	4.65E-08	1.02E-10	5.67E-08	1.39E-09	6.35E-09	0.00E+00	7.75E-09	8.55E-10	2.92E-09	0.00E+00	3.77E-09
1298	420404.98	3734398.47	1.01E-08	4.62E-08	1.01E-10	5.64E-08	1.39E-09	6.32E-09	0.00E+00	7.71E-09	8.50E-10	2.90E-09	0.00E+00	3.76E-09
1299	420397.32	3734341.53	9.60E-09	4.39E-08	9.60E-11	5.36E-08	1.32E-09	6.00E-09	0.00E+00	7.32E-09	8.08E-10	2.76E-09	0.00E+00	3.57E-09
1300	420403.64	3734325.96	9.92E-09	4.54E-08	9.92E-11	5.54E-08	1.36E-09	6.20E-09	0.00E+00	7.56E-09	8.35E-10	2.85E-09	0.00E+00	3.69E-09
1301	420409.97	3734310.39	1.01E-08	4.64E-08	1.01E-10	5.66E-08	1.39E-09	6.34E-09	0.00E+00	7.73E-09	8.54E-10	2.92E-09	0.00E+00	3.77E-09
1302	420451.1	3734209.18	8.71E-09	3.98E-08	8.70E-11	4.86E-08	1.19E-09	5.44E-09	0.00E+00	6.64E-09	7.32E-10	2.50E-09	0.00E+00	3.23E-09
1303	420457.43	3734193.61	8.16E-09	3.73E-08	8.16E-11	4.56E-08	1.12E-09	5.10E-09	0.00E+00	6.22E-09	6.87E-10	2.35E-09	0.00E+00	3.03E-09
1304	420600.61	3734128.58	6.61E-09	3.02E-08	6.61E-11	3.69E-08	9.06E-10	4.13E-09	0.00E+00	5.04E-09	5.56E-10	1.90E-09	0.00E+00	2.46E-09
1305	420384.77	3734381.35	8.78E-09	4.01E-08	8.77E-11	4.90E-08	1.20E-09	5.49E-09	0.00E+00	6.69E-09	7.38E-10	2.52E-09	0.00E+00	3.26E-09
1306	420384.98	3734398.71	8.71E-09	3.98E-08	8.71E-11	4.86E-08	1.19E-09	5.45E-09	0.00E+00	6.64E-09	7.33E-10	2.50E-09	0.00E+00	3.24E-09
1307	420389.82	3734311.01	8.94E-09	4.09E-08	8.93E-11	4.99E-08	1.22E-09	5.59E-09	0.00E+00	6.81E-09	7.52E-10	2.57E-09	0.00E+00	3.32E-09
1308	420396.11	3734295.53	9.10E-09	4.16E-08	9.09E-11	5.08E-08	1.25E-09	5.69E-09	0.00E+00	6.93E-09	7.65E-10	2.61E-09	0.00E+00	3.38E-09
1309	420414.99	3734249.09	8.97E-09	4.10E-08	8.96E-11	5.01E-08	1.23E-09	5.61E-09	0.00E+00	6.84E-09	7.54E-10	2.58E-09	0.00E+00	3.33E-09
1310	420421.28	3734233.61	8.72E-09	3.99E-08	8.72E-11	4.87E-08	1.20E-09	5.45E-09	0.00E+00	6.65E-09	7.34E-10	2.51E-09	0.00E+00	3.24E-09
1311	420427.57	3734218.14	8.39E-09	3.84E-08	8.39E-11	4.69E-08	1.15E-09	5.25E-09	0.00E+00	6.40E-09	7.06E-10	2.41E-09	0.00E+00	3.12E-09
1312	420454.17	3734168.54	7.07E-09	3.23E-08	7.06E-11	3.94E-08	9.69E-10	4.42E-09	0.00E+00	5.39E-09	5.94E-10	2.03E-09	0.00E+00	2.62E-09
1313	420577.89	3734117.95	6.04E-09	2.76E-08	6.03E-11	3.37E-08	8.27E-10	3.77E-09	0.00E+00	4.60E-09	5.08E-10	1.73E-09	0.00E+00	2.24E-09
1314	420364.77	3734381.6	7.64E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.77E-09	0.00E+00	5.82E-09	6.43E-10	2.19E-09	0.00E+00	2.84E-09
1315	420364.98	3734398.96	7.57E-09	3.46E-08	7.57E-11	4.23E-08	1.04E-09	4.73E-09	0.00E+00	5.77E-09	6.37E-10	2.18E-09	0.00E+00	2.81E-09
1316	420357.64	3734341.23	7.38E-09	3.37E-08	7.37E-11	4.12E-08	1.01E-09	4.61E-09	0.00E+00	5.62E-09	6.21E-10	2.12E-09	0.00E+00	2.74E-09
1317	420364.13	3734325.26	7.67E-09	3.51E-08	7.67E-11	4.28E-08	1.05E-09	4.80E-09	0.00E+00	5.85E-09	6.45E-10	2.20E-09	0.00E+00	2.85E-09
1318	420370.62	3734309.29	7.92E-09	3.62E-08	7.91E-11	4.42E-08	1.09E-09	4.95E-09	0.00E+00	6.04E-09	6.66E-10	2.28E-09	0.00E+00	2.94E-09
1319	420409.57	3734213.47	7.71E-09	3.52E-08	7.70E-11	4.30E-08	1.06E-09	4.82E-09	0.00E+00	5.87E-09	6.48E-10	2.21E-09	0.00E+00	2.86E-09
1320	420416.06	3734197.5	7.38E-09	3.38E-08	7.38E-11	4.12E-08	1.01E-09	4.62E-09	0.00E+00	5.63E-09	6.21E-10	2.12E-09	0.00E+00	2.74E-09
1321	420422.55	3734181.53	7.01E-09	3.20E-08	7.00E-11	3.91E-08	9.61E-10	4.38E-09	0.00E+00	5.34E-09	5.90E-10	2.01E-09	0.00E+00	2.60E-09
1322	420464.19	3734144.52	6.29E-09	2.88E-08	6.29E-11	3.51E-08	8.63E-10	3.94E-09	0.00E+00	4.80E-09	5.30E-10	1.81E-09	0.00E+00	2.34E-09
1323	420480.15	3734138	6.20E-09	2.83E-08	6.19E-11	3.46E-08	8.49E-10	3.87E-09	0.00E+00	4.72E-09	5.21E-10	1.78E-09	0.00E+00	2.30E-09
1324	420575.89	3734098.85	5.38E-09	2.46E-08	5.38E-11	3.00E-08	7.38E-10	3.36E-09	0.00E+00	4.10E-09	4.53E-10	1.55E-09	0.00E+00	2.00E-09
1325	420344.77	3734381.85	6.69E-09	3.06E-08	6.69E-11	3.74E-08	9.17E-10	4.18E-09	0.00E+00	5.10E-09	5.63E-10	1.92E-09	0.00E+00	2.49E-09
1326	420344.98	3734399.21	6.63E-09	3.03E-08	6.63E-11	3.70E-08	9.09E-10	4.14E-09	0.00E+00	5.05E-09	5.58E-10	1.90E-09	0.00E+00	2.46E-09
1327	420317.48	3734342.13	5.76E-09	2.63E-08	5.76E-11	3.22E-08	7.90E-10	3.60E-09	0.00E+00	4.39E-09	4.85E-10	1.66E-09	0.00E+00	2.14E-09
1328	420323.89	3734326.37	6.00E-09	2.75E-08	6.00E-11	3.35E-08	8.23E-10	3.75E-09	0.00E+00	4.58E-09	5.05E-10	1.73E-09	0.00E+00	2.23E-09
1329	420330.29	3734310.6	6.23E-09	2.85E-08	6.23E-11	3.48E-08	8.54E-10	3.89E-09	0.00E+00	4.75E-09	5.24E-10	1.79E-09	0.00E+00	2.31E-09
1330	420387.95	3734168.73	6.02E-09	2.75E-08	6.02E-11	3.36E-08	8.25E-10	3.76E-09	0.00E+00	4.59E-09	5.07E-10	1.73E-09	0.00E+00	2.24E-09
1331	420400.77	3734137.2	5.43E-09	2.48E-08	5.43E-11	3.03E-08	7.44E-10	3.39E-09	0.00E+00	4.14E-09	4.57E-10	1.56E-09	0.00E+00	2.02E-09
1332	420411.84	3734126.1	5.27E-09	2.41E-08	5.26E-11	2.94E-08	7.22E-10	3.29E-09	0.00E+00	4.01E-09	4.43E-10	1.51E-09	0.00E+00	1.96E-09
1333	420443.34	3734113.22	5.17E-09	2.37E-08	5.17E-11	2.89E-08	7.09E-10	3.24E-09	0.00E+00	3.94E-09	4.35E-10	1.49E-09	0.00E+00	1.92E-09
1334	420459.09	3734106.78	5.09E-09	2.33E-08	5.09E-11	2.84E-08	6.98E-10	3.18E-09	0.00E+00	3.88E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
1335	420490.59	3734093.9	4.88E-09	2.23E-08	4.88E-11	2.73E-08	6.69E-10	3.05E-09	0.00E+00	3.72E-09	4.11E-10	1.40E-09	0.00E+00	1.81E-09
1336	420304.77	3734382.34	5.24E-09	2.39E-08	5.23E-11	2.92E-08	7.18E-10	3.27E-09	0.00E+00	3.99E-09	4.41E-10	1.50E-09	0.00E+00	1.95E-09
1337	420304.99	3734399.7	5.18E-09	2.37E-08	5.18E-11	2.89E-08	7.10E-10	3.24E-09	0.00E+00	3.95E-09	4.36E-10	1.49E-09	0.00E+00	1.93E-09
1338	420277.73	3734342.02	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
1339	420284.25	3734325.96	4.80E-09	2.20E-08	4.80E-11	2.68E-08	6.58E-10	3.00E-09	0.00E+00	3.66E-09	4.04E-10	1.38E-09	0.00E+00	1.78E-09
1340	420329.95	3734213.51	5.60E-09	2.56E-08	5.59E-11	3.12E-08	7.67E-10	3.50E-09	0.00E+00	4.27E-09	4.71E-10	1.61E-09	0.00E+00	2.08E-09
1341	420336.48	3734197.45	5.54E-09	2.53E-08	5.54E-11	3.09E-08	7.60E-10	3.46E-09	0.00E+00	4.22E-09	4.66E-10	1.59E-09	0.00E+00	2.06E-09
1342	420343.01	3734181.38	5.44E-09	2.49E-08	5.44E-11	3.04E-08	7.46E-10	3.40E-09	0.00E+00	4.15E-09	4.58E-10	1.56E-09	0.00E+00	2.02E-09
1343	420362.6	3734133.19	4.90E-09	2.24E-08	4.90E-11	2.74E-08	6.72E-10	3.07E-09	0.00E+00	3.74E-09	4.13E-10	1.41E-09	0.00E+00	1.82E-09
1344	420369.13	3734117.13	4.67E-09	2.14E-08	4.67E-11	2.61E-08	6.40E-10	2.92E-09	0.00E+00	3.56E-09	3.93E-10	1.34E-09	0.00E+00	1.74E-09
1345	420415.78	3734084.66	4.36E-09	1.99E-08	4.35E-11	2.43E-08	5.97E-10	2.72E-09	0.00E+00	3.32E-09	3.66E-10	1.25E-09	0.00E+00	1.62E-09
1346	420431.83	3734078.1	4.29E-09	1.96E-08	4.29E-11	2.39E-08	5.88E-10	2.68E-09	0.00E+00	3.27E-09	3.61E-10	1.23E-09	0.00E+00	1.59E-09

1347	420463.93	3734064.97	4.12E-09	1.88E-08	4.12E-11	2.30E-08	5.65E-10	2.58E-09	0.00E+00	3.14E-09	3.47E-10	1.18E-09	0.00E+00	1.53E-09
1348	420520.1	3734042	3.80E-09	1.74E-08	3.80E-11	2.12E-08	5.21E-10	2.38E-09	0.00E+00	2.90E-09	3.20E-10	1.09E-09	0.00E+00	1.41E-09
1349	420536.15	3734035.44	3.72E-09	1.70E-08	3.72E-11	2.08E-08	5.10E-10	2.33E-09	0.00E+00	2.83E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
1350	420552.2	3734028.88	3.65E-09	1.67E-08	3.65E-11	2.04E-08	5.01E-10	2.28E-09	0.00E+00	2.78E-09	3.07E-10	1.05E-09	0.00E+00	1.36E-09
1351	420568.25	3734022.31	3.59E-09	1.64E-08	3.59E-11	2.01E-08	4.92E-10	2.25E-09	0.00E+00	2.74E-09	3.02E-10	1.03E-09	0.00E+00	1.33E-09
1352	420584.3	3734015.75	3.54E-09	1.62E-08	3.54E-11	1.98E-08	4.86E-10	2.22E-09	0.00E+00	2.70E-09	2.98E-10	1.02E-09	0.00E+00	1.32E-09
1353	420264.78	3734382.83	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	0.00E+00	3.20E-09	3.53E-10	1.20E-09	0.00E+00	1.56E-09
1354	420264.99	3734400.19	4.15E-09	1.90E-08	4.15E-11	2.32E-08	5.69E-10	2.59E-09	0.00E+00	3.16E-09	3.49E-10	1.19E-09	0.00E+00	1.54E-09
1355	420237.58	3734342.87	3.73E-09	1.71E-08	3.73E-11	2.08E-08	5.12E-10	2.33E-09	0.00E+00	2.85E-09	3.14E-10	1.07E-09	0.00E+00	1.39E-09
1356	420244.04	3734326.98	3.89E-09	1.78E-08	3.89E-11	2.17E-08	5.33E-10	2.43E-09	0.00E+00	2.97E-09	3.27E-10	1.12E-09	0.00E+00	1.45E-09
1357	420250.5	3734311.1	4.05E-09	1.85E-08	4.05E-11	2.26E-08	5.55E-10	2.53E-09	0.00E+00	3.09E-09	3.41E-10	1.16E-09	0.00E+00	1.50E-09
1358	420295.69	3734199.9	4.74E-09	2.17E-08	4.73E-11	2.64E-08	6.49E-10	2.96E-09	0.00E+00	3.61E-09	3.98E-10	1.36E-09	0.00E+00	1.76E-09
1359	420302.15	3734184.01	4.71E-09	2.16E-08	4.71E-11	2.63E-08	6.46E-10	2.95E-09	0.00E+00	3.59E-09	3.97E-10	1.35E-09	0.00E+00	1.75E-09
1360	420308.6	3734168.13	4.66E-09	2.13E-08	4.65E-11	2.60E-08	6.38E-10	2.91E-09	0.00E+00	3.55E-09	3.92E-10	1.34E-09	0.00E+00	1.73E-09
1361	420321.52	3734136.35	4.45E-09	2.03E-08	4.45E-11	2.48E-08	6.10E-10	2.78E-09	0.00E+00	3.39E-09	3.74E-10	1.28E-09	0.00E+00	1.65E-09
1362	420327.97	3734120.47	4.30E-09	1.97E-08	4.30E-11	2.40E-08	5.90E-10	2.69E-09	0.00E+00	3.28E-09	3.62E-10	1.24E-09	0.00E+00	1.60E-09
1363	420334.43	3734104.58	4.14E-09	1.89E-08	4.14E-11	2.31E-08	5.68E-10	2.59E-09	0.00E+00	3.16E-09	3.48E-10	1.19E-09	0.00E+00	1.54E-09
1364	420340.88	3734088.7	3.97E-09	1.81E-08	3.96E-11	2.21E-08	5.44E-10	2.48E-09	0.00E+00	3.02E-09	3.34E-10	1.14E-09	0.00E+00	1.47E-09
1365	420355.28	3734069.57	3.78E-09	1.73E-08	3.78E-11	2.11E-08	5.18E-10	2.36E-09	0.00E+00	2.88E-09	3.18E-10	1.09E-09	0.00E+00	1.40E-09
1366	420442.57	3734033.87	3.50E-09	1.60E-08	3.50E-11	1.95E-08	4.80E-10	2.19E-09	0.00E+00	2.67E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
1367	420458.44	3734027.38	3.43E-09	1.57E-08	3.42E-11	1.91E-08	4.70E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.85E-10	0.00E+00	1.27E-09
1368	420490.19	3734014.4	3.28E-09	1.50E-08	3.28E-11	1.83E-08	4.49E-10	2.05E-09	0.00E+00	2.50E-09	2.76E-10	9.42E-10	0.00E+00	1.22E-09
1369	420521.93	3734001.42	3.15E-09	1.44E-08	3.15E-11	1.76E-08	4.32E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.05E-10	0.00E+00	1.17E-09
1370	420537.8	3733994.93	3.09E-09	1.41E-08	3.09E-11	1.73E-08	4.24E-10	1.93E-09	0.00E+00	2.36E-09	2.60E-10	8.89E-10	0.00E+00	1.15E-09
1371	420553.68	3733988.44	3.05E-09	1.39E-08	3.05E-11	1.70E-08	4.18E-10	1.90E-09	0.00E+00	2.32E-09	2.56E-10	8.76E-10	0.00E+00	1.13E-09
1372	420569.55	3733981.95	3.01E-09	1.38E-08	3.01E-11	1.68E-08	4.12E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.64E-10	0.00E+00	1.12E-09
1373	420224.78	3734383.32	3.42E-09	1.56E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.83E-10	0.00E+00	1.27E-09
1374	420224.99	3734400.68	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.74E-10	0.00E+00	1.26E-09
1375	420197.47	3734343.65	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.23E-10	1.93E-09	0.00E+00	2.35E-09	2.59E-10	8.86E-10	0.00E+00	1.15E-09
1376	420203.87	3734327.91	3.20E-09	1.46E-08	3.20E-11	1.79E-08	4.39E-10	2.00E-09	0.00E+00	2.44E-09	2.70E-10	9.21E-10	0.00E+00	1.19E-09
1377	420210.27	3734312.17	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.56E-10	2.08E-09	0.00E+00	2.54E-09	2.80E-10	9.56E-10	0.00E+00	1.24E-09
1378	420267.84	3734170.49	4.05E-09	1.85E-08	4.05E-11	2.26E-08	5.55E-10	2.53E-09	0.00E+00	3.09E-09	3.41E-10	1.16E-09	0.00E+00	1.51E-09
1379	420280.64	3734139.01	3.97E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.48E-09	0.00E+00	3.03E-09	3.34E-10	1.14E-09	0.00E+00	1.48E-09
1380	420287.04	3734123.26	3.89E-09	1.78E-08	3.89E-11	2.17E-08	5.34E-10	2.44E-09	0.00E+00	2.97E-09	3.28E-10	1.12E-09	0.00E+00	1.45E-09
1381	420293.44	3734107.52	3.80E-09	1.74E-08	3.80E-11	2.12E-08	5.21E-10	2.37E-09	0.00E+00	2.89E-09	3.19E-10	1.09E-09	0.00E+00	1.41E-09
1382	420299.83	3734091.78	3.68E-09	1.68E-08	3.68E-11	2.06E-08	5.05E-10	2.30E-09	0.00E+00	2.81E-09	3.10E-10	1.06E-09	0.00E+00	1.37E-09
1383	420306.23	3734076.04	3.55E-09	1.63E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
1384	420312.63	3734060.3	3.41E-09	1.56E-08	3.41E-11	1.91E-08	4.68E-10	2.13E-09	0.00E+00	2.60E-09	2.87E-10	9.81E-10	0.00E+00	1.27E-09
1385	420366.21	3734025.26	3.20E-09	1.46E-08	3.20E-11	1.79E-08	4.39E-10	2.00E-09	0.00E+00	2.44E-09	2.69E-10	9.20E-10	0.00E+00	1.19E-09
1386	420421.26	3734002.75	3.01E-09	1.38E-08	3.01E-11	1.68E-08	4.13E-10	1.88E-09	0.00E+00	2.30E-09	2.53E-10	8.66E-10	0.00E+00	1.12E-09
1387	420436.99	3733996.32	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.05E-10	1.85E-09	0.00E+00	2.25E-09	2.48E-10	8.48E-10	0.00E+00	1.10E-09
1388	420468.44	3733983.46	2.83E-09	1.29E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	0.00E+00	2.16E-09	2.38E-10	8.13E-10	0.00E+00	1.05E-09
1389	420484.17	3733977.03	2.77E-09	1.27E-08	2.77E-11	1.55E-08	3.80E-10	1.73E-09	0.00E+00	2.11E-09	2.33E-10	7.97E-10	0.00E+00	1.03E-09
1390	420515.63	3733964.17	2.68E-09	1.22E-08	2.68E-11	1.49E-08	3.67E-10	1.67E-09	0.00E+00	2.04E-09	2.25E-10	7.69E-10	0.00E+00	9.94E-10
1391	420531.35	3733957.74	2.64E-09	1.21E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.57E-10	0.00E+00	9.79E-10
1392	420547.08	3733951.31	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.47E-10	0.00E+00	9.66E-10
1393	420633.59	3733915.93	2.48E-09	1.13E-08	2.48E-11	1.38E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.08E-10	7.12E-10	0.00E+00	9.20E-10
1394	420184.78	3734383.81	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.90E-10	1.78E-09	0.00E+00	2.17E-09	2.39E-10	8.17E-10	0.00E+00	1.06E-09
1395	420184.99	3734401.17	2.82E-09	1.29E-08	2.81E-11	1.57E-08	3.86E-10	1.76E-09	0.00E+00	2.15E-09	2.37E-10	8.09E-10	0.00E+00	1.05E-09
1396	420157.66	3734343.68	2.59E-09	1.18E-08	2.59E-11	1.45E-08	3.55E-10	1.62E-09	0.00E+00	1.97E-09	2.18E-10	7.44E-10	0.00E+00	9.62E-10
1397	420164.15	3734327.71	2.69E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.72E-10	0.00E+00	9.98E-10
1398	420170.64	3734311.74	2.79E-09	1.27E-08	2.79E-11	1.56E-08	3.82E-10	1.74E-09	0.00E+00	2.12E-09	2.34E-10	8.01E-10	0.00E+00	1.04E-09
1399	420216.07	3734199.96	3.43E-09	1.57E-08	3.43E-11	1.92E-08	4.70E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.86E-10	0.00E+00	1.27E-09
1400	420222.56	3734183.99	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.17E-09	0.00E+00	2.65E-09	2.93E-10	9.99E-10	0.00E+00	1.29E-09
1401	420242.03	3734136.08	3.50E-09	1.60E-08	3.50E-11	1.95E-08	4.79E-10	2.19E-09	0.00E+00	2.67E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
1402	420261.5	3734088.17	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.57E-10	2.08E-09	0.00E+00	2.54E-09	2.80E-10	9.57E-10	0.00E+00	1.24E-09
1403	420268	3734072.2	3.24E-09	1.48E-08	3.24E-11	1.81E-08	4.45E-10	2.03E-09	0.00E+00	2.47E-09	2.73E-10	9.32E-10	0.00E+00	1.20E-09
1404	420274.49	3734056.23	3.14E-09	1.44E-08	3.14E-11	1.75E-08	4.31E-10	1.96E-09	0.00E+00	2.40E-09	2.64E-10	9.03E-10	0.00E+00	1.17E-09
1405	420287.47	3734024.29	2.91E-09	1.33E-08	2.91E-11	1.62E-08	3.99E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.36E-10	0.00E+00	1.08E-09
1406	420298.69	3734013.04	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.90E-10	1.78E-09	0.00E+00	2.17E-09	2.40E-10	8.18E-10	0.00E+00	1.06E-09
1407	420338.58	3733996.73	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.83E-10	1.75E-09	0.00E+00	2.13E-09	2.35E-10	8.04E-10	0.00E+00	1.04E-09
1408	420354.54	3733990.21	2.76E-09	1.26E-08	2.76E-11	1.54E-08	3.78E-10	1.73E-09	0.00E+00	2.10E-09	2.32E-10	7.93E-10	0.00E+00	1.03E-09
1409	420394.43	3733973.89	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
1410	420410.38	3733967.37	2.59E-09	1.18E-08	2.59E-11	1.44E-08	3.55E-10	1.62E-09	0.00E+00	1.97E-09	2.18E-10	7.44E-10	0.00E+00	9.61E-10
1411	420442.29	3733954.32	2.48E-09	1.14E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.13E-10	0.00E+00	9.22E-10
1412	420522.07	3733921.7	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.92E-10	6.54E-10	0.00E+00	8.46E-10
1413	420538.03	3733915.18	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.08E-10	1.41E-09	0.00E+00	1.71E-09	1.89E-10	6.46E-10	0.00E+00	8.36E-10
1414	420633.77	3733876.03	2.15E-09	9.82E-09	2.15E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.64E-09	1.81E-10	6.17E-10	0.00E+00	7.98E-10
1415	420144.78	3734384.3	2.40E-09	1.10E-08	2.40E-11	1.34E-08	3.29E-10	1.50E-09	0.00E+00	1.83E-09	2.02E-10	6.89E-10	0.00E+00	8.90E-10
1416	420145	3734401.66	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	0.00E+00	1.81E-09	2.00E-10	6.83E-10	0.00E+00	8.83E-10
1417	420117.56	3734344.44	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.85E-10	6.32E-10	0.00E+00	8.17E-10
1418	420123.99	3734328.6	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.91E-10	6.54E-10	0.00E+00	8.46E-10
1419	420130.43	3734312.76	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.23E-10	1.47E-09	0.00E+00	1.80E-09	1.98E-10	6.77E-10	0.00E+00	8.75E-10
1420	420175.49	3734201.88	2.93E-09	1.34E-08	2.92E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.41E-10	0.00E+00	1.09E-09
1421	420181.93	3734186.04	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.09E-10	1.86E-09	0.00E+00	2.27E-09	2.51E-10	8.57E-10	0.00E+00	1.11E-09

1422	420188.37	3734170.2	3.03E-09	1.38E-08	3.03E-11	1.69E-08	4.15E-10	1.89E-09	0.00E+00	2.31E-09	2.55E-10	8.70E-10	0.00E+00	1.12E-09
1423	420201.24	3734138.52	3.07E-09	1.40E-08	3.07E-11	1.71E-08	4.21E-10	1.92E-09	0.00E+00	2.34E-09	2.58E-10	8.83E-10	0.00E+00	1.14E-09
1424	420207.68	3734122.68	3.07E-09	1.40E-08	3.07E-11	1.71E-08	4.21E-10	1.92E-09	0.00E+00	2.34E-09	2.58E-10	8.82E-10	0.00E+00	1.14E-09
1425	420214.12	3734106.84	3.05E-09	1.39E-08	3.05E-11	1.70E-08	4.18E-10	1.91E-09	0.00E+00	2.33E-09	2.57E-10	8.77E-10	0.00E+00	1.13E-09
1426	420220.55	3734091	3.02E-09	1.38E-08	3.01E-11	1.68E-08	4.13E-10	1.89E-09	0.00E+00	2.30E-09	2.54E-10	8.67E-10	0.00E+00	1.12E-09
1427	420226.99	3734075.17	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.85E-09	0.00E+00	2.26E-09	2.50E-10	8.52E-10	0.00E+00	1.10E-09
1428	420233.43	3734059.33	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.98E-10	1.82E-09	0.00E+00	2.21E-09	2.44E-10	8.34E-10	0.00E+00	1.08E-09
1429	420270.31	3733984.81	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.21E-10	0.00E+00	9.32E-10
1430	420286.14	3733978.34	2.50E-09	1.14E-08	2.50E-11	1.39E-08	3.43E-10	1.56E-09	0.00E+00	1.90E-09	2.10E-10	7.18E-10	0.00E+00	9.28E-10
1431	420317.79	3733965.4	2.45E-09	1.12E-08	2.45E-11	1.37E-08	3.36E-10	1.53E-09	0.00E+00	1.87E-09	2.07E-10	7.05E-10	0.00E+00	9.12E-10
1432	420333.61	3733958.93	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	0.00E+00	1.85E-09	2.04E-10	6.96E-10	0.00E+00	9.00E-10
1433	420420.65	3733923.34	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.29E-10	0.00E+00	8.13E-10
1434	420436.48	3733916.87	2.15E-09	9.81E-09	2.14E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.64E-09	1.80E-10	6.16E-10	0.00E+00	7.97E-10
1435	420452.31	3733910.4	2.11E-09	9.63E-09	2.11E-11	1.18E-08	2.89E-10	1.32E-09	0.00E+00	1.61E-09	1.77E-10	6.05E-10	0.00E+00	7.82E-10
1436	420468.13	3733903.92	2.07E-09	9.47E-09	2.07E-11	1.16E-08	2.84E-10	1.29E-09	0.00E+00	1.58E-09	1.74E-10	5.95E-10	0.00E+00	7.69E-10
1437	420483.96	3733897.45	2.04E-09	9.32E-09	2.04E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.72E-10	5.86E-10	0.00E+00	7.57E-10
1438	420499.78	3733890.98	2.01E-09	9.20E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	0.00E+00	1.53E-09	1.69E-10	5.78E-10	0.00E+00	7.47E-10
1439	420515.61	3733884.51	1.99E-09	9.09E-09	1.99E-11	1.11E-08	2.72E-10	1.24E-09	0.00E+00	1.52E-09	1.67E-10	5.71E-10	0.00E+00	7.38E-10
1440	420602.65	3733848.92	1.90E-09	8.71E-09	1.90E-11	1.06E-08	2.61E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.47E-10	0.00E+00	7.08E-10
1441	420104.68	3734376.12	2.06E-09	9.41E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.91E-10	0.00E+00	7.64E-10
1442	420104.89	3734393.48	2.04E-09	9.33E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.55E-09	1.72E-10	5.86E-10	0.00E+00	7.58E-10
1443	420077.71	3734344.54	1.89E-09	8.66E-09	1.89E-11	1.06E-08	2.60E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.44E-10	0.00E+00	7.04E-10
1444	420084.23	3734328.51	1.96E-09	8.95E-09	1.96E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.65E-10	5.62E-10	0.00E+00	7.27E-10
1445	420090.75	3734312.48	2.02E-09	9.25E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.81E-10	0.00E+00	7.51E-10
1446	420146.13	3734176.22	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.48E-10	0.00E+00	9.67E-10
1447	420159.16	3734144.15	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.04E-09	2.26E-10	7.71E-10	0.00E+00	9.97E-10
1448	420165.67	3734128.12	2.70E-09	1.24E-08	2.70E-11	1.51E-08	3.71E-10	1.69E-09	0.00E+00	2.06E-09	2.27E-10	7.77E-10	0.00E+00	1.00E-09
1449	420172.19	3734112.09	2.71E-09	1.24E-08	2.71E-11	1.51E-08	3.72E-10	1.70E-09	0.00E+00	2.07E-09	2.28E-10	7.79E-10	0.00E+00	1.01E-09
1450	420178.7	3734096.06	2.71E-09	1.24E-08	2.70E-11	1.51E-08	3.71E-10	1.69E-09	0.00E+00	2.06E-09	2.28E-10	7.77E-10	0.00E+00	1.01E-09
1451	420185.22	3734080.03	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.72E-10	0.00E+00	9.98E-10
1452	420191.73	3734064	2.66E-09	1.21E-08	2.66E-11	1.48E-08	3.64E-10	1.66E-09	0.00E+00	2.03E-09	2.24E-10	7.63E-10	0.00E+00	9.87E-10
1453	420204.76	3734031.93	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.36E-10	0.00E+00	9.51E-10
1454	420211.28	3734015.9	2.50E-09	1.14E-08	2.50E-11	1.39E-08	3.42E-10	1.56E-09	0.00E+00	1.90E-09	2.10E-10	7.18E-10	0.00E+00	9.28E-10
1455	420217.79	3733999.87	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.33E-10	1.52E-09	0.00E+00	1.85E-09	2.04E-10	6.98E-10	0.00E+00	9.02E-10
1456	420242.09	3733956.52	2.23E-09	1.02E-08	2.23E-11	1.24E-08	3.06E-10	1.39E-09	0.00E+00	1.70E-09	1.88E-10	6.40E-10	0.00E+00	8.28E-10
1457	420346.2	3733913.95	2.07E-09	9.47E-09	2.07E-11	1.16E-08	2.84E-10	1.30E-09	0.00E+00	1.58E-09	1.74E-10	5.95E-10	0.00E+00	7.70E-10
1458	420362.22	3733907.4	2.03E-09	9.30E-09	2.03E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.84E-10	0.00E+00	7.55E-10
1459	420394.26	3733894.3	1.96E-09	8.94E-09	1.96E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.65E-10	5.62E-10	0.00E+00	7.27E-10
1460	420410.27	3733887.75	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.52E-10	0.00E+00	7.13E-10
1461	420426.29	3733881.2	1.88E-09	8.62E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.41E-10	0.00E+00	7.00E-10
1462	420442.31	3733874.65	1.85E-09	8.47E-09	1.85E-11	1.03E-08	2.54E-10	1.16E-09	0.00E+00	1.41E-09	1.56E-10	5.32E-10	0.00E+00	6.88E-10
1463	420458.33	3733868.1	1.82E-09	8.34E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.24E-10	0.00E+00	6.77E-10
1464	420474.34	3733861.55	1.80E-09	8.22E-09	1.80E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.17E-10	0.00E+00	6.68E-10
1465	420490.36	3733855	1.78E-09	8.12E-09	1.77E-11	9.91E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.10E-10	0.00E+00	6.60E-10
1466	420506.38	3733848.45	1.76E-09	8.03E-09	1.76E-11	9.80E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.05E-10	0.00E+00	6.53E-10
1467	420586.47	3733815.71	1.70E-09	7.75E-09	1.70E-11	9.47E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.87E-10	0.00E+00	6.30E-10
1468	420602.48	3733809.16	1.69E-09	7.72E-09	1.69E-11	9.42E-09	2.31E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.85E-10	0.00E+00	6.27E-10
1469	420634.52	3733796.06	1.67E-09	7.65E-09	1.67E-11	9.34E-09	2.29E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.81E-10	0.00E+00	6.22E-10
1470	420064.68	3734376.61	1.78E-09	8.13E-09	1.78E-11	9.93E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.11E-10	0.00E+00	6.61E-10
1471	420064.9	3734393.97	1.76E-09	8.07E-09	1.76E-11	9.85E-09	2.42E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.07E-10	0.00E+00	6.55E-10
1472	420031.15	3734361.19	1.60E-09	7.31E-09	1.60E-11	8.93E-09	2.19E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.60E-10	0.00E+00	5.94E-10
1473	420037.62	3734345.27	1.65E-09	7.53E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.12E-10
1474	420044.09	3734329.36	1.70E-09	7.77E-09	1.70E-11	9.48E-09	2.33E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.88E-10	0.00E+00	6.31E-10
1475	420050.56	3734313.45	1.75E-09	8.01E-09	1.75E-11	9.78E-09	2.40E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.03E-10	0.00E+00	6.51E-10
1476	420095.83	3734202.06	2.17E-09	9.93E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.24E-10	0.00E+00	8.07E-10
1477	420102.29	3734186.14	2.23E-09	1.02E-08	2.23E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.40E-10	0.00E+00	8.27E-10
1478	420108.76	3734170.23	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.92E-10	6.54E-10	0.00E+00	8.46E-10
1479	420121.69	3734138.41	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.23E-10	1.48E-09	0.00E+00	1.80E-09	1.99E-10	6.78E-10	0.00E+00	8.77E-10
1480	420128.16	3734122.49	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.27E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.86E-10	0.00E+00	8.87E-10
1481	420147.56	3734074.75	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.30E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.93E-10	0.00E+00	8.95E-10
1482	420154.03	3734058.84	2.40E-09	1.10E-08	2.39E-11	1.34E-08	3.28E-10	1.50E-09	0.00E+00	1.83E-09	2.02E-10	6.88E-10	0.00E+00	8.90E-10
1483	420166.97	3734027.02	2.34E-09	1.07E-08	2.34E-11	1.31E-08	3.21E-10	1.46E-09	0.00E+00	1.78E-09	1.97E-10	6.72E-10	0.00E+00	8.69E-10
1484	420173.43	3734011.1	2.30E-09	1.05E-08	2.29E-11	1.28E-08	3.15E-10	1.44E-09	0.00E+00	1.75E-09	1.93E-10	6.60E-10	0.00E+00	8.53E-10
1485	420179.9	3733995.19	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.45E-10	0.00E+00	8.34E-10
1486	420213.72	3733928.29	2.00E-09	9.12E-09	1.99E-11	1.11E-08	2.74E-10	1.25E-09	0.00E+00	1.52E-09	1.68E-10	5.73E-10	0.00E+00	7.41E-10
1487	420229.62	3733921.79	1.99E-09	9.10E-09	1.99E-11	1.11E-08	2.73E-10	1.24E-09	0.00E+00	1.52E-09	1.67E-10	5.72E-10	0.00E+00	7.40E-10
1488	420269.36	3733905.54	1.95E-09	8.93E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.61E-10	0.00E+00	7.26E-10
1489	420285.26	3733899.03	1.93E-09	8.82E-09	1.93E-11	1.08E-08	2.64E-10	1.21E-09	0.00E+00	1.47E-09	1.62E-10	5.54E-10	0.00E+00	7.17E-10
1490	420317.06	3733886.03	1.87E-09	8.55E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	0.00E+00	1.43E-09	1.57E-10	5.38E-10	0.00E+00	6.95E-10
1491	420332.96	3733879.53	1.84E-09	8.40E-09	1.84E-11	1.03E-08	2.52E-10	1.15E-09	0.00E+00	1.40E-09	1.55E-10	5.28E-10	0.00E+00	6.83E-10
1492	420364.76	3733866.53	1.77E-09	8.10E-09	1.77E-11	9.89E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.09E-10	0.00E+00	6.58E-10
1493	420396.56	3733853.53	1.71E-09	7.81E-09	1.71E-11	9.53E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.91E-10	0.00E+00	6.34E-10
1494	420412.46	3733847.03	1.68E-09	7.67E-09	1.68E-11	9.37E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.82E-10	0.00E+00	6.24E-10
1495	420428.36	3733840.53	1.65E-09	7.56E-09	1.65E-11	9.22E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
1496	420444.25	3733834.02	1.63E-09	7.44E-09	1.63E-11	9.09E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.68E-10	0.00E+00	6.05E-10

1497	420460.15	3733827.52	1.61E-09	7.35E-09	1.61E-11	8.97E-09	2.20E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.62E-10	0.00E+00	5.97E-10
1498	420476.05	3733821.02	1.59E-09	7.26E-09	1.59E-11	8.86E-09	2.18E-10	9.92E-10	0.00E+00	1.21E-09	1.34E-10	4.56E-10	0.00E+00	5.90E-10
1499	420491.95	3733814.52	1.57E-09	7.18E-09	1.57E-11	8.77E-09	2.15E-10	9.82E-10	0.00E+00	1.20E-09	1.32E-10	4.52E-10	0.00E+00	5.84E-10
1500	420571.45	3733782.02	1.52E-09	6.96E-09	1.52E-11	8.50E-09	2.09E-10	9.52E-10	0.00E+00	1.16E-09	1.28E-10	4.37E-10	0.00E+00	5.66E-10
1501	420587.35	3733775.52	1.52E-09	6.93E-09	1.52E-11	8.46E-09	2.08E-10	9.48E-10	0.00E+00	1.16E-09	1.28E-10	4.36E-10	0.00E+00	5.63E-10
1502	420603.24	3733769.01	1.51E-09	6.91E-09	1.51E-11	8.43E-09	2.07E-10	9.45E-10	0.00E+00	1.15E-09	1.27E-10	4.34E-10	0.00E+00	5.61E-10
1503	420024.69	3734377.1	1.55E-09	7.11E-09	1.55E-11	8.68E-09	2.13E-10	9.72E-10	0.00E+00	1.18E-09	1.31E-10	4.47E-10	0.00E+00	5.77E-10
1504	420024.9	3734394.46	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.11E-10	9.64E-10	0.00E+00	1.18E-09	1.30E-10	4.43E-10	0.00E+00	5.73E-10
1505	419987.96	3734369.55	1.39E-09	6.36E-09	1.39E-11	7.77E-09	1.91E-10	8.70E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.17E-10
1506	419994.49	3734353.47	1.43E-09	6.54E-09	1.43E-11	7.98E-09	1.96E-10	8.94E-10	0.00E+00	1.09E-09	1.20E-10	4.11E-10	0.00E+00	5.31E-10
1507	420001.03	3734337.39	1.47E-09	6.72E-09	1.47E-11	8.21E-09	2.02E-10	9.19E-10	0.00E+00	1.12E-09	1.24E-10	4.22E-10	0.00E+00	5.46E-10
1508	420007.56	3734321.32	1.51E-09	6.92E-09	1.51E-11	8.45E-09	2.07E-10	9.46E-10	0.00E+00	1.15E-09	1.27E-10	4.35E-10	0.00E+00	5.62E-10
1509	420059.84	3734192.69	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.52E-10	0.00E+00	7.13E-10
1510	420066.37	3734176.61	1.97E-09	9.01E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.66E-10	5.66E-10	0.00E+00	7.32E-10
1511	420079.44	3734144.46	2.06E-09	9.41E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.92E-10	0.00E+00	7.65E-10
1512	420085.97	3734128.38	2.10E-09	9.58E-09	2.10E-11	1.17E-08	2.87E-10	1.31E-09	0.00E+00	1.60E-09	1.76E-10	6.02E-10	0.00E+00	7.79E-10
1513	420092.51	3734112.3	2.13E-09	9.72E-09	2.13E-11	1.19E-08	2.91E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.11E-10	0.00E+00	7.90E-10
1514	420099.04	3734096.22	2.15E-09	9.82E-09	2.15E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.64E-09	1.81E-10	6.17E-10	0.00E+00	7.98E-10
1515	420105.58	3734080.14	2.16E-09	9.88E-09	2.16E-11	1.21E-08	2.96E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.21E-10	0.00E+00	8.02E-10
1516	420112.11	3734064.07	2.16E-09	9.89E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.22E-10	0.00E+00	8.04E-10
1517	420125.18	3734031.91	2.15E-09	9.81E-09	2.14E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.64E-09	1.80E-10	6.16E-10	0.00E+00	7.97E-10
1518	420131.71	3734015.83	2.12E-09	9.71E-09	2.12E-11	1.19E-08	2.91E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.10E-10	0.00E+00	7.89E-10
1519	420138.25	3733999.75	2.09E-09	9.57E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	0.00E+00	1.60E-09	1.76E-10	6.02E-10	0.00E+00	7.78E-10
1520	420144.78	3733983.68	2.06E-09	9.41E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.91E-10	0.00E+00	7.64E-10
1521	420151.32	3733967.6	2.01E-09	9.21E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	0.00E+00	1.54E-09	1.69E-10	5.79E-10	0.00E+00	7.48E-10
1522	420157.85	3733951.52	1.97E-09	8.99E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.65E-10	5.65E-10	0.00E+00	7.31E-10
1523	420170.92	3733919.36	1.86E-09	8.50E-09	1.86E-11	1.04E-08	2.55E-10	1.16E-09	0.00E+00	1.42E-09	1.56E-10	5.34E-10	0.00E+00	6.91E-10
1524	420185.49	3733900	1.80E-09	8.24E-09	1.80E-11	1.01E-08	2.47E-10	1.13E-09	0.00E+00	1.37E-09	1.52E-10	5.18E-10	0.00E+00	6.69E-10
1525	420201.55	3733893.43	1.80E-09	8.22E-09	1.80E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.16E-10	0.00E+00	6.68E-10
1526	420241.71	3733877.01	1.77E-09	8.07E-09	1.76E-11	9.86E-09	2.42E-10	1.10E-09	0.00E+00	1.35E-09	1.49E-10	5.07E-10	0.00E+00	6.56E-10
1527	420289.9	3733857.31	1.70E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.87E-10	0.00E+00	6.30E-10
1528	420305.97	3733850.74	1.67E-09	7.62E-09	1.67E-11	9.31E-09	2.29E-10	1.04E-09	0.00E+00	1.27E-09	1.40E-10	4.79E-10	0.00E+00	6.19E-10
1529	420338.1	3733837.6	1.61E-09	7.36E-09	1.61E-11	8.98E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.35E-10	4.62E-10	0.00E+00	5.98E-10
1530	420402.35	3733811.33	1.50E-09	6.87E-09	1.50E-11	8.38E-09	2.06E-10	9.39E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.58E-10
1531	420418.42	3733804.76	1.48E-09	6.76E-09	1.48E-11	8.26E-09	2.03E-10	9.25E-10	0.00E+00	1.13E-09	1.24E-10	4.25E-10	0.00E+00	5.50E-10
1532	420434.48	3733798.19	1.46E-09	6.67E-09	1.46E-11	8.15E-09	2.00E-10	9.13E-10	0.00E+00	1.11E-09	1.23E-10	4.19E-10	0.00E+00	5.42E-10
1533	420450.55	3733791.62	1.44E-09	6.59E-09	1.44E-11	8.05E-09	1.98E-10	9.02E-10	0.00E+00	1.10E-09	1.21E-10	4.14E-10	0.00E+00	5.36E-10
1534	420466.61	3733785.05	1.43E-09	6.52E-09	1.43E-11	7.96E-09	1.96E-10	8.92E-10	0.00E+00	1.09E-09	1.20E-10	4.10E-10	0.00E+00	5.30E-10
1535	420554.96	3733748.93	1.38E-09	6.30E-09	1.38E-11	7.69E-09	1.89E-10	8.61E-10	0.00E+00	1.05E-09	1.16E-10	3.96E-10	0.00E+00	5.11E-10
1536	420571.03	3733742.36	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.58E-10	0.00E+00	1.05E-09	1.15E-10	3.94E-10	0.00E+00	5.10E-10
1537	420587.09	3733735.79	1.37E-09	6.26E-09	1.37E-11	7.64E-09	1.88E-10	8.56E-10	0.00E+00	1.04E-09	1.15E-10	3.93E-10	0.00E+00	5.08E-10
1538	420603.16	3733729.22	1.36E-09	6.24E-09	1.36E-11	7.62E-09	1.87E-10	8.53E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.07E-10
1539	420619.22	3733722.65	1.36E-09	6.23E-09	1.36E-11	7.60E-09	1.87E-10	8.51E-10	0.00E+00	1.04E-09	1.15E-10	3.91E-10	0.00E+00	5.06E-10
1540	419984.8	3734386.27	1.37E-09	6.25E-09	1.37E-11	7.63E-09	1.87E-10	8.55E-10	0.00E+00	1.04E-09	1.15E-10	3.93E-10	0.00E+00	5.08E-10
1541	419985.01	3734403.63	1.36E-09	6.20E-09	1.36E-11	7.57E-09	1.86E-10	8.48E-10	0.00E+00	1.03E-09	1.14E-10	3.90E-10	0.00E+00	5.04E-10
1542	419947.94	3734370.1	1.24E-09	5.66E-09	1.24E-11	6.91E-09	1.70E-10	7.74E-10	0.00E+00	9.44E-10	1.04E-10	3.56E-10	0.00E+00	4.60E-10
1543	419954.43	3734354.13	1.27E-09	5.81E-09	1.27E-11	7.09E-09	1.74E-10	7.94E-10	0.00E+00	9.68E-10	1.07E-10	3.65E-10	0.00E+00	4.72E-10
1544	419960.92	3734338.16	1.30E-09	5.96E-09	1.30E-11	7.28E-09	1.79E-10	8.15E-10	0.00E+00	9.94E-10	1.10E-10	3.75E-10	0.00E+00	4.84E-10
1545	419967.41	3734322.19	1.34E-09	6.12E-09	1.34E-11	7.47E-09	1.83E-10	8.36E-10	0.00E+00	1.02E-09	1.13E-10	3.84E-10	0.00E+00	4.97E-10
1546	419973.9	3734306.22	1.37E-09	6.28E-09	1.37E-11	7.67E-09	1.88E-10	8.59E-10	0.00E+00	1.05E-09	1.16E-10	3.95E-10	0.00E+00	5.11E-10
1547	419980.39	3734290.25	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	0.00E+00	1.08E-09	1.19E-10	4.06E-10	0.00E+00	5.25E-10
1548	419993.37	3734258.31	1.50E-09	6.84E-09	1.50E-11	8.36E-09	2.05E-10	9.36E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
1549	419999.86	3734242.34	1.54E-09	7.05E-09	1.54E-11	8.60E-09	2.11E-10	9.64E-10	0.00E+00	1.18E-09	1.30E-10	4.43E-10	0.00E+00	5.73E-10
1550	420006.35	3734226.37	1.59E-09	7.26E-09	1.59E-11	8.86E-09	2.18E-10	9.92E-10	0.00E+00	1.21E-09	1.34E-10	4.56E-10	0.00E+00	5.90E-10
1551	420012.84	3734210.4	1.63E-09	7.47E-09	1.63E-11	9.12E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.37E-10	4.69E-10	0.00E+00	6.07E-10
1552	420019.33	3734194.43	1.68E-09	7.68E-09	1.68E-11	9.37E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.83E-10	0.00E+00	6.24E-10
1553	420038.8	3734146.52	1.81E-09	8.27E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.20E-10	0.00E+00	6.72E-10
1554	420045.29	3734130.55	1.85E-09	8.44E-09	1.85E-11	1.03E-08	2.53E-10	1.15E-09	0.00E+00	1.41E-09	1.55E-10	5.30E-10	0.00E+00	6.86E-10
1555	420051.78	3734114.58	1.88E-09	8.59E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.43E-09	1.58E-10	5.40E-10	0.00E+00	6.98E-10
1556	420058.27	3734098.61	1.91E-09	8.72E-09	1.91E-11	1.06E-08	2.61E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.48E-10	0.00E+00	7.09E-10
1557	420064.76	3734082.64	1.93E-09	8.82E-09	1.93E-11	1.08E-08	2.64E-10	1.21E-09	0.00E+00	1.47E-09	1.62E-10	5.54E-10	0.00E+00	7.16E-10
1558	420071.26	3734066.67	1.94E-09	8.88E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.22E-10
1559	420090.73	3734018.76	1.94E-09	8.89E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.22E-10
1560	420097.22	3734002.79	1.93E-09	8.83E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.62E-10	5.55E-10	0.00E+00	7.17E-10
1561	420103.71	3733986.82	1.91E-09	8.74E-09	1.91E-11	1.07E-08	2.62E-10	1.19E-09	0.00E+00	1.46E-09	1.61E-10	5.49E-10	0.00E+00	7.10E-10
1562	420110.2	3733970.85	1.89E-09	8.62E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.42E-10	0.00E+00	7.00E-10
1563	420116.69	3733954.88	1.85E-09	8.47E-09	1.85E-11	1.03E-08	2.54E-10	1.16E-09	0.00E+00	1.41E-09	1.56E-10	5.32E-10	0.00E+00	6.88E-10
1564	420142.65	3733891	1.69E-09	7.71E-09	1.68E-11	9.41E-09	2.31E-10	1.05E-09	0.00E+00	1.28E-09	1.42E-10	4.84E-10	0.00E+00	6.26E-10
1565	420157.12	3733871.77	1.64E-09	7.48E-09	1.64E-11	9.13E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.70E-10	0.00E+00	6.08E-10
1566	420173.07	3733865.24	1.63E-09	7.46E-09	1.63E-11	9.11E-09	2.24E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.69E-10	0.00E+00	6.06E-10
1567	420189.03	3733858.72	1.63E-09	7.43E-09	1.62E-11	9.07E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.67E-10	0.00E+00	6.04E-10
1568	420204.99	3733852.2	1.61E-09	7.38E-09	1.61E-11	9.01E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.36E-10	4.64E-10	0.00E+00	6.00E-10
1569	420220.94	3733845.67	1.60E-09	7.31E-09	1.60E-11	8.93E-09	2.19E-10	1.00E-09	0.00E+00	1.22E-09	1.35E-10	4.60E-10	0.00E+00	5.94E-10
1570	420236.9	3733839.15	1.58E-09	7.23E-09	1.58E-11	8.83E-09	2.17E-10	9.89E-10	0.00E+00	1.21E-09	1.33E-10	4.54E-10	0.00E+00	5.87E-10
1571	420316.68	3733806.53	1.46E-09	6.68E-09	1.46E-11	8.16E-09	2.00E-10	9.14E-10	0.00E+00	1.11E-09	1.23E-10	4.20E-10	0.00E+00	5.43E-10

1572	420332.63	3733800	1.44E-09	6.57E-09	1.44E-11	8.02E-09	1.97E-10	8.98E-10	0.00E+00	1.10E-09	1.21E-10	4.13E-10	0.00E+00	5.34E-10
1573	420348.59	3733793.48	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.83E-10	0.00E+00	1.08E-09	1.19E-10	4.06E-10	0.00E+00	5.25E-10
1574	420388.48	3733777.17	1.36E-09	6.21E-09	1.36E-11	7.58E-09	1.86E-10	8.49E-10	0.00E+00	1.04E-09	1.14E-10	3.90E-10	0.00E+00	5.05E-10
1575	420404.44	3733770.64	1.34E-09	6.13E-09	1.34E-11	7.48E-09	1.84E-10	8.38E-10	0.00E+00	1.02E-09	1.13E-10	3.85E-10	0.00E+00	4.98E-10
1576	420420.39	3733764.12	1.32E-09	6.05E-09	1.32E-11	7.39E-09	1.81E-10	8.27E-10	0.00E+00	1.01E-09	1.11E-10	3.80E-10	0.00E+00	4.92E-10
1577	420436.35	3733757.59	1.31E-09	5.98E-09	1.31E-11	7.30E-09	1.79E-10	8.18E-10	0.00E+00	9.97E-10	1.10E-10	3.76E-10	0.00E+00	4.86E-10
1578	420452.3	3733751.07	1.30E-09	5.92E-09	1.29E-11	7.23E-09	1.78E-10	8.10E-10	0.00E+00	9.87E-10	1.09E-10	3.72E-10	0.00E+00	4.81E-10
1579	420468.26	3733744.55	1.28E-09	5.87E-09	1.28E-11	7.17E-09	1.76E-10	8.03E-10	0.00E+00	9.79E-10	1.08E-10	3.69E-10	0.00E+00	4.77E-10
1580	420548.04	3733711.92	1.25E-09	5.72E-09	1.25E-11	6.99E-09	1.72E-10	7.82E-10	0.00E+00	9.54E-10	1.05E-10	3.60E-10	0.00E+00	4.65E-10
1581	420564	3733705.4	1.25E-09	5.71E-09	1.25E-11	6.97E-09	1.71E-10	7.80E-10	0.00E+00	9.52E-10	1.05E-10	3.59E-10	0.00E+00	4.64E-10
1582	420579.95	3733698.88	1.25E-09	5.70E-09	1.25E-11	6.96E-09	1.71E-10	7.79E-10	0.00E+00	9.50E-10	1.05E-10	3.58E-10	0.00E+00	4.63E-10
1583	420595.91	3733692.35	1.24E-09	5.69E-09	1.24E-11	6.94E-09	1.70E-10	7.78E-10	0.00E+00	9.48E-10	1.05E-10	3.57E-10	0.00E+00	4.62E-10
1584	420611.87	3733685.83	1.24E-09	5.68E-09	1.24E-11	6.93E-09	1.70E-10	7.76E-10	0.00E+00	9.46E-10	1.04E-10	3.57E-10	0.00E+00	4.61E-10
1585	419944.8	3734386.76	1.22E-09	5.57E-09	1.22E-11	6.80E-09	1.67E-10	7.62E-10	0.00E+00	9.29E-10	1.03E-10	3.50E-10	0.00E+00	4.53E-10
1586	419945.01	3734404.12	1.21E-09	5.53E-09	1.21E-11	6.75E-09	1.66E-10	7.56E-10	0.00E+00	9.22E-10	1.02E-10	3.47E-10	0.00E+00	4.49E-10
1587	420639.94	3734404.17	1.62E-07	7.41E-07	1.62E-09	9.05E-07	2.22E-08	1.01E-07	0.00E+00	1.24E-07	1.36E-08	4.66E-08	0.00E+00	6.02E-08
1588	420648.28	3734409.01	2.07E-07	9.47E-07	2.07E-09	1.16E-06	2.84E-08	1.29E-07	0.00E+00	1.58E-07	1.74E-08	5.95E-08	0.00E+00	7.69E-08
1589	420656.63	3734413.85	2.75E-07	1.26E-06	2.75E-09	1.53E-06	3.77E-08	1.72E-07	0.00E+00	2.09E-07	2.31E-08	7.90E-08	0.00E+00	1.02E-07
1590	420664.97	3734418.69	3.83E-07	1.75E-06	3.83E-09	2.14E-06	5.25E-08	2.40E-07	0.00E+00	2.92E-07	3.22E-08	1.10E-07	0.00E+00	1.42E-07
1591	420673.31	3734423.53	5.66E-07	2.59E-06	5.65E-09	3.16E-06	7.76E-08	3.54E-07	0.00E+00	4.31E-07	4.76E-08	1.63E-07	0.00E+00	2.10E-07
1592	420643.27	3734417.66	2.12E-07	9.70E-07	2.12E-09	1.18E-06	2.91E-08	1.33E-07	0.00E+00	1.62E-07	1.79E-08	6.10E-08	0.00E+00	7.88E-08
1593	420651.61	3734422.5	2.81E-07	1.29E-06	2.81E-09	1.57E-06	3.85E-08	1.76E-07	0.00E+00	2.14E-07	2.37E-08	8.08E-08	0.00E+00	1.04E-07
1594	420659.95	3734427.34	3.90E-07	1.78E-06	3.90E-09	2.18E-06	5.35E-08	2.44E-07	0.00E+00	2.97E-07	3.28E-08	1.12E-07	0.00E+00	1.45E-07
1595	420668.29	3734432.18	5.71E-07	2.61E-06	5.71E-09	3.19E-06	7.83E-08	3.57E-07	0.00E+00	4.35E-07	4.80E-08	1.64E-07	0.00E+00	2.12E-07
1596	420638.25	3734426.31	2.09E-07	9.55E-07	2.09E-09	1.17E-06	2.86E-08	1.31E-07	0.00E+00	1.59E-07	1.76E-08	6.00E-08	0.00E+00	7.76E-08
1597	420646.59	3734431.15	2.74E-07	1.25E-06	2.74E-09	1.53E-06	3.76E-08	1.71E-07	0.00E+00	2.09E-07	2.31E-08	7.88E-08	0.00E+00	1.02E-07
1598	420654.93	3734435.99	3.75E-07	1.71E-06	3.74E-09	2.09E-06	5.13E-08	2.34E-07	0.00E+00	2.86E-07	3.15E-08	1.08E-07	0.00E+00	1.39E-07
1599	420663.28	3734440.83	5.37E-07	2.45E-06	5.37E-09	3.00E-06	7.36E-08	3.36E-07	0.00E+00	4.09E-07	4.52E-08	1.54E-07	0.00E+00	1.99E-07
1600	420608.6	3734409.13	9.99E-08	4.57E-07	9.98E-10	5.57E-07	1.37E-08	6.24E-08	0.00E+00	7.61E-08	8.40E-09	2.87E-08	0.00E+00	3.71E-08
1601	420641.57	3734439.8	2.59E-07	1.18E-06	2.59E-09	1.45E-06	3.55E-08	1.62E-07	0.00E+00	1.97E-07	2.18E-08	7.44E-08	0.00E+00	9.62E-08
1602	420649.91	3734444.64	3.47E-07	1.59E-06	3.47E-09	1.94E-06	4.76E-08	2.17E-07	0.00E+00	2.65E-07	2.92E-08	9.98E-08	0.00E+00	1.29E-07
1603	420658.26	3734449.48	4.85E-07	2.22E-06	4.85E-09	2.71E-06	6.65E-08	3.03E-07	0.00E+00	3.70E-07	4.08E-08	1.39E-07	0.00E+00	1.80E-07
1604	420613.84	3734432.76	1.28E-07	5.86E-07	1.28E-09	7.15E-07	1.76E-08	8.01E-08	0.00E+00	9.77E-08	1.08E-08	3.68E-08	0.00E+00	4.76E-08
1605	420599.51	3734412.54	8.82E-08	4.03E-07	8.82E-10	4.92E-07	1.21E-08	5.51E-08	0.00E+00	6.72E-08	7.42E-09	2.53E-08	0.00E+00	3.28E-08
1606	420644.9	3734453.29	3.15E-07	1.44E-06	3.15E-09	1.76E-06	4.32E-08	1.97E-07	0.00E+00	2.40E-07	2.65E-08	9.05E-08	0.00E+00	1.17E-07
1607	420653.24	3734458.13	4.29E-07	1.96E-06	4.29E-09	2.39E-06	5.88E-08	2.68E-07	0.00E+00	3.27E-07	3.61E-08	1.23E-07	0.00E+00	1.59E-07
1608	420609.43	3734442.01	1.22E-07	5.58E-07	1.22E-09	6.82E-07	1.67E-08	7.64E-08	0.00E+00	9.31E-08	1.03E-08	3.51E-08	0.00E+00	4.54E-08
1609	420598.58	3734431.19	9.51E-08	4.35E-07	9.50E-10	5.31E-07	1.30E-08	5.94E-08	0.00E+00	7.25E-08	8.00E-09	2.73E-08	0.00E+00	3.53E-08
1610	420591.11	3734418.4	7.94E-08	3.63E-07	7.93E-10	4.43E-07	1.09E-08	4.96E-08	0.00E+00	6.05E-08	6.68E-09	2.28E-08	0.00E+00	2.95E-08
1611	420639.88	3734461.94	2.81E-07	1.28E-06	2.81E-09	1.57E-06	3.85E-08	1.76E-07	0.00E+00	2.14E-07	2.36E-08	8.07E-08	0.00E+00	1.04E-07
1612	420648.22	3734466.78	3.76E-07	1.72E-06	3.76E-09	2.10E-06	5.15E-08	2.35E-07	0.00E+00	2.87E-07	3.16E-08	1.08E-07	0.00E+00	1.40E-07
1613	420590.85	3734437.14	8.44E-08	3.86E-07	8.44E-10	4.71E-07	1.16E-08	5.28E-08	0.00E+00	6.43E-08	7.10E-09	2.43E-08	0.00E+00	3.14E-08
1614	420582.13	3734422.22	6.98E-08	3.19E-07	6.98E-10	3.90E-07	9.57E-09	4.36E-08	0.00E+00	5.32E-08	5.87E-09	2.01E-08	0.00E+00	2.59E-08
1615	420579.74	3734413.6	6.52E-08	2.98E-07	6.52E-10	3.64E-07	8.94E-09	4.08E-08	0.00E+00	4.97E-08	5.49E-09	1.87E-08	0.00E+00	2.42E-08
1616	420643.2	3734475.43	3.25E-07	1.49E-06	3.25E-09	1.81E-06	4.45E-08	2.03E-07	0.00E+00	2.48E-07	2.73E-08	9.33E-08	0.00E+00	1.21E-07
1617	420573.7	3734428	6.22E-08	2.84E-07	6.21E-10	3.47E-07	8.52E-09	3.89E-08	0.00E+00	4.74E-08	5.23E-09	1.79E-08	0.00E+00	2.31E-08
1618	420569.33	3734412.25	5.58E-08	2.55E-07	5.58E-10	3.12E-07	7.65E-09	3.49E-08	0.00E+00	4.26E-08	4.70E-09	1.60E-08	0.00E+00	2.07E-08
1619	420613.16	3734469.56	1.41E-07	6.43E-07	1.41E-09	7.85E-07	1.93E-08	8.79E-08	0.00E+00	1.07E-07	1.18E-08	4.04E-08	0.00E+00	5.23E-08
1620	420638.18	3734484.08	2.77E-07	1.27E-06	2.77E-09	1.55E-06	3.80E-08	1.73E-07	0.00E+00	2.11E-07	2.33E-08	7.96E-08	0.00E+00	1.03E-07
1621	420593.29	3734466.88	9.18E-08	4.20E-07	9.17E-10	5.12E-07	1.26E-08	5.74E-08	0.00E+00	7.00E-08	7.72E-09	2.64E-08	0.00E+00	3.41E-08
1622	420564.79	3734432.06	5.47E-08	2.50E-07	5.47E-10	3.05E-07	7.50E-09	3.42E-08	0.00E+00	4.17E-08	4.60E-09	1.57E-08	0.00E+00	2.03E-08
1623	420562.34	3734423.2	5.20E-08	2.38E-07	5.20E-10	2.90E-07	7.13E-09	3.25E-08	0.00E+00	3.96E-08	4.38E-09	1.49E-08	0.00E+00	1.93E-08
1624	420559.88	3734414.34	4.93E-08	2.25E-07	4.92E-10	2.75E-07	6.75E-09	3.08E-08	0.00E+00	3.76E-08	4.15E-09	1.42E-08	0.00E+00	1.83E-08
1625	420557.42	3734405.48	4.65E-08	2.13E-07	4.65E-10	2.60E-07	6.38E-09	2.91E-08	0.00E+00	3.55E-08	3.91E-09	1.34E-08	0.00E+00	1.73E-08
1626	420599.8	3734473.37	1.05E-07	4.78E-07	1.05E-09	5.84E-07	1.43E-08	6.54E-08	0.00E+00	7.98E-08	8.80E-09	3.01E-08	0.00E+00	3.89E-08
1627	420608.14	3734478.21	1.25E-07	5.72E-07	1.25E-09	6.98E-07	1.72E-08	7.82E-08	0.00E+00	9.54E-08	1.05E-08	3.60E-08	0.00E+00	4.65E-08
1628	420616.48	3734483.05	1.52E-07	6.93E-07	1.52E-09	8.46E-07	2.08E-08	9.48E-08	0.00E+00	1.16E-07	1.28E-08	4.36E-08	0.00E+00	5.63E-08
1629	420588.75	3734476.01	8.36E-08	3.82E-07	8.36E-10	4.67E-07	1.15E-08	5.23E-08	0.00E+00	6.37E-08	7.03E-09	2.40E-08	0.00E+00	3.11E-08
1630	420576.7	3734463.99	6.76E-08	3.09E-07	6.75E-10	3.77E-07	9.26E-09	4.22E-08	0.00E+00	5.15E-08	5.68E-09	1.94E-08	0.00E+00	2.51E-08
1631	420556.34	3734437.76	4.86E-08	2.22E-07	4.86E-10	2.71E-07	6.66E-09	3.04E-08	0.00E+00	3.71E-08	4.09E-09	1.40E-08	0.00E+00	1.81E-08
1632	420551.79	3734421.35	4.48E-08	2.05E-07	4.47E-10	2.50E-07	6.14E-09	2.80E-08	0.00E+00	3.41E-08	3.77E-09	1.29E-08	0.00E+00	1.66E-08
1633	420603.12	3734486.86	1.10E-07	5.05E-07	1.10E-09	6.17E-07	1.51E-08	6.91E-08	0.00E+00	8.42E-08	9.29E-09	3.17E-08	0.00E+00	4.10E-08
1634	420611.46	3734491.7	1.32E-07	6.03E-07	1.32E-09	7.37E-07	1.81E-08	8.25E-08	0.00E+00	1.01E-07	1.11E-08	3.79E-08	0.00E+00	4.90E-08
1635	420578.54	3734493.14	6.71E-08	3.07E-07	6.71E-10	3.75E-07	9.20E-09	4.20E-08	0.00E+00	5.12E-08	5.65E-09	1.93E-08	0.00E+00	2.49E-08
1636	420566.14	3734480.77	5.56E-08	2.54E-07	5.56E-10	3.11E-07	7.63E-09	3.48E-08	0.00E+00	4.24E-08	4.68E-09	1.60E-08	0.00E+00	2.07E-08
1637	420553.74	3734468.41	4.65E-08	2.13E-07	4.65E-10	2.60E-07	6.38E-09	2.91E-08	0.00E+00	3.55E-08	3.91E-09	1.34E-08	0.00E+00	1.73E-08
1638	420534.33	3734430.74	3.58E-08	1.64E-07	3.58E-10	2.00E-07	4.91E-09	2.24E-08	0.00E+00	2.73E-08	3.01E-09	1.03E-08	0.00E+00	1.33E-08
1639	420529.65	3734413.87	3.34E-08	1.53E-07	3.34E-10	1.86E-07	4.58E-09	2.09E-08	0.00E+00	2.54E-08	2.81E-09	9.59E-09	0.00E+00	1.24E-08
1640	420593.08	3734504.16	8.54E-08	3.90E-07	8.53E-10	4.76E-07	1.17E-08	5.34E-08	0.00E+00	6.51E-08	7.18E-09	2.45E-08	0.00E+00	3.17E-08
1641	420601.43	3734509	9.93E-08	4.54E-07	9.93E-10	5.54E-07	1.36E-08	6.21E-08	0.00E+00	7.57E-08	8.35E-09	2.85E-08	0.00E+00	3.69E-08
1642	420609.77	3734513.84	1.16E-07	5.32E-07	1.16E-09	6.49E-07	1.59E-08	7.27E-08	0.00E+00	8.87E-08	9.79E-09	3.34E-08	0.00E+00	4.32E-08
1643	420568.38	3734510.31	5.39E-08	2.46E-07	5.39E-10	3.01E-07	7.39E-09	3.37E-08	0.00E+00	4.11E-08	4.54E-09	1.55E-08	0.00E+00	2.00E-08
1644	420555.72	3734497.69	4.57E-08	2.09E-07	4.57E-10	2.55E-07	6.27E-09	2.86E-08	0.00E+00	3.49E-08	3.85E-09	1.31E-08	0.00E+00	1.70E-08
1645	420543.06	3734485.07	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.34E-09	2.43E-08	0.00E+00	2.97E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
1646	420530.4	3734472.45	3.33E-08	1.52E-07	3.33E-10	1.86E-07	4.57E-09	2.09E-08	0.00E+00	2.54E-08	2.81E-09	9.58E-09	0.00E+00	1.24E-08

1647	420516.91	3734440.3	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	0.00E+00	2.20E-08	2.43E-09	8.28E-09	0.00E+00	1.07E-08
1648	420512.13	3734423.08	2.73E-08	1.25E-07	2.73E-10	1.52E-07	3.74E-09	1.71E-08	0.00E+00	2.08E-08	2.30E-09	7.84E-09	0.00E+00	1.01E-08
1649	420583.05	3734521.46	6.63E-08	3.03E-07	6.63E-10	3.70E-07	9.09E-09	4.15E-08	0.00E+00	5.05E-08	5.58E-09	1.91E-08	0.00E+00	2.46E-08
1650	420591.39	3734526.3	7.53E-08	3.44E-07	7.53E-10	4.21E-07	1.03E-08	4.71E-08	0.00E+00	5.74E-08	6.34E-09	2.16E-08	0.00E+00	2.80E-08
1651	420599.73	3734531.14	8.59E-08	3.93E-07	8.59E-10	4.80E-07	1.18E-08	5.37E-08	0.00E+00	6.55E-08	7.23E-09	2.47E-08	0.00E+00	3.19E-08
1652	420608.07	3734535.98	9.83E-08	4.49E-07	9.82E-10	5.48E-07	1.35E-08	6.14E-08	0.00E+00	7.49E-08	8.27E-09	2.82E-08	0.00E+00	3.65E-08
1653	420558.24	3734527.51	4.37E-08	2.00E-07	4.37E-10	2.44E-07	5.99E-09	2.73E-08	0.00E+00	3.33E-08	3.68E-09	1.26E-08	0.00E+00	1.62E-08
1654	420551.81	3734521.1	4.07E-08	1.86E-07	4.06E-10	2.27E-07	5.57E-09	2.54E-08	0.00E+00	3.10E-08	3.42E-09	1.17E-08	0.00E+00	1.51E-08
1655	420538.95	3734508.27	3.52E-08	1.61E-07	3.52E-10	1.96E-07	4.82E-09	2.20E-08	0.00E+00	2.68E-08	2.96E-09	1.01E-08	0.00E+00	1.31E-08
1656	420532.52	3734501.86	3.27E-08	1.50E-07	3.27E-10	1.83E-07	4.49E-09	2.05E-08	0.00E+00	2.50E-08	2.75E-09	9.41E-09	0.00E+00	1.22E-08
1657	420519.66	3734489.04	2.84E-08	1.30E-07	2.84E-10	1.59E-07	3.90E-09	1.78E-08	0.00E+00	2.17E-08	2.39E-09	8.17E-09	0.00E+00	1.06E-08
1658	420504.38	3734467.48	2.44E-08	1.11E-07	2.43E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	7.00E-09	0.00E+00	9.05E-09
1659	420497.1	3734441.23	2.29E-08	1.05E-07	2.29E-10	1.28E-07	3.14E-09	1.43E-08	0.00E+00	1.75E-08	1.93E-09	6.59E-09	0.00E+00	8.52E-09
1660	420494.68	3734432.48	2.24E-08	1.03E-07	2.24E-10	1.25E-07	3.07E-09	1.40E-08	0.00E+00	1.71E-08	1.89E-09	6.45E-09	0.00E+00	8.33E-09
1661	420492.25	3734423.73	2.19E-08	1.00E-07	2.19E-10	1.22E-07	3.00E-09	1.37E-08	0.00E+00	1.67E-08	1.84E-09	6.30E-09	0.00E+00	8.14E-09
1662	420489.82	3734414.98	2.14E-08	9.78E-08	2.14E-10	1.19E-07	2.93E-09	1.34E-08	0.00E+00	1.63E-08	1.80E-09	6.14E-09	0.00E+00	7.94E-09
1663	420487.4	3734406.23	2.08E-08	9.53E-08	2.08E-10	1.16E-07	2.86E-09	1.30E-08	0.00E+00	1.59E-08	1.75E-09	5.99E-09	0.00E+00	7.74E-09
1664	420564.67	3734533.92	4.70E-08	2.15E-07	4.69E-10	2.62E-07	6.44E-09	2.94E-08	0.00E+00	3.58E-08	3.95E-09	1.35E-08	0.00E+00	1.74E-08
1665	420535.1	3734531.74	3.16E-08	1.44E-07	3.15E-10	1.76E-07	4.33E-09	1.97E-08	0.00E+00	2.41E-08	2.65E-09	9.07E-09	0.00E+00	1.17E-08
1666	420528.59	3734525.25	2.96E-08	1.35E-07	2.96E-10	1.65E-07	4.06E-09	1.85E-08	0.00E+00	2.26E-08	2.49E-09	8.50E-09	0.00E+00	1.10E-08
1667	420522.08	3734518.76	2.77E-08	1.27E-07	2.77E-10	1.55E-07	3.80E-09	1.73E-08	0.00E+00	2.11E-08	2.33E-09	7.97E-09	0.00E+00	1.03E-08
1668	420515.57	3734512.27	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.56E-09	1.63E-08	0.00E+00	1.98E-08	2.19E-09	7.47E-09	0.00E+00	9.66E-09
1669	420509.06	3734505.78	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	7.01E-09	0.00E+00	9.06E-09
1670	420502.55	3734499.29	2.29E-08	1.05E-07	2.29E-10	1.28E-07	3.14E-09	1.43E-08	0.00E+00	1.74E-08	1.93E-09	6.58E-09	0.00E+00	8.50E-09
1671	420496.05	3734492.8	2.15E-08	9.83E-08	2.15E-10	1.20E-07	2.95E-09	1.34E-08	0.00E+00	1.64E-08	1.81E-09	6.18E-09	0.00E+00	7.99E-09
1672	420487.08	3734477.45	1.99E-08	9.10E-08	1.99E-10	1.11E-07	2.73E-09	1.24E-08	0.00E+00	1.52E-08	1.67E-09	5.72E-09	0.00E+00	7.39E-09
1673	420484.62	3734468.6	1.96E-08	8.95E-08	1.96E-10	1.09E-07	2.68E-09	1.22E-08	0.00E+00	1.49E-08	1.65E-09	5.63E-09	0.00E+00	7.28E-09
1674	420482.17	3734459.74	1.93E-08	8.81E-08	1.93E-10	1.08E-07	2.64E-09	1.20E-08	0.00E+00	1.47E-08	1.62E-09	5.53E-09	0.00E+00	7.15E-09
1675	420477.25	3734442.02	1.86E-08	8.50E-08	1.86E-10	1.04E-07	2.55E-09	1.16E-08	0.00E+00	1.42E-08	1.56E-09	5.34E-09	0.00E+00	6.91E-09
1676	420474.8	3734433.16	1.82E-08	8.34E-08	1.82E-10	1.02E-07	2.50E-09	1.14E-08	0.00E+00	1.39E-08	1.53E-09	5.24E-09	0.00E+00	6.78E-09
1677	420472.34	3734424.31	1.79E-08	8.18E-08	1.79E-10	9.98E-08	2.45E-09	1.12E-08	0.00E+00	1.36E-08	1.50E-09	5.14E-09	0.00E+00	6.64E-09
1678	420469.89	3734415.45	1.75E-08	8.01E-08	1.75E-10	9.78E-08	2.40E-09	1.10E-08	0.00E+00	1.34E-08	1.47E-09	5.03E-09	0.00E+00	6.51E-09
1679	420467.43	3734406.59	1.71E-08	7.84E-08	1.71E-10	9.57E-08	2.35E-09	1.07E-08	0.00E+00	1.31E-08	1.44E-09	4.93E-09	0.00E+00	6.37E-09
1680	420579.66	3734565.73	5.02E-08	2.29E-07	5.02E-10	2.80E-07	6.88E-09	3.14E-08	0.00E+00	3.83E-08	4.22E-09	1.44E-08	0.00E+00	1.86E-08
1681	420588	3734570.57	5.50E-08	2.51E-07	5.49E-10	3.07E-07	7.54E-09	3.44E-08	0.00E+00	4.19E-08	4.62E-09	1.58E-08	0.00E+00	2.04E-08
1682	420538.02	3734561.96	2.96E-08	1.35E-07	2.96E-10	1.65E-07	4.06E-09	1.85E-08	0.00E+00	2.26E-08	2.49E-09	8.51E-09	0.00E+00	1.10E-08
1683	420511.72	3734535.74	2.37E-08	1.08E-07	2.36E-10	1.32E-07	3.24E-09	1.48E-08	0.00E+00	1.80E-08	1.99E-09	6.80E-09	0.00E+00	8.79E-09
1684	420505.14	3734529.18	2.23E-08	1.02E-07	2.23E-10	1.25E-07	3.06E-09	1.40E-08	0.00E+00	1.70E-08	1.88E-09	6.41E-09	0.00E+00	8.29E-09
1685	420498.57	3734522.62	2.11E-08	9.63E-08	2.10E-10	1.18E-07	2.89E-09	1.32E-08	0.00E+00	1.61E-08	1.77E-09	6.05E-09	0.00E+00	7.82E-09
1686	420491.99	3734516.07	1.99E-08	9.08E-08	1.99E-10	1.11E-07	2.72E-09	1.24E-08	0.00E+00	1.51E-08	1.67E-09	5.71E-09	0.00E+00	7.38E-09
1687	420485.42	3734509.51	1.87E-08	8.57E-08	1.87E-10	1.05E-07	2.57E-09	1.17E-08	0.00E+00	1.43E-08	1.58E-09	5.39E-09	0.00E+00	6.96E-09
1688	420478.84	3734502.96	1.77E-08	8.09E-08	1.77E-10	9.88E-08	2.43E-09	1.11E-08	0.00E+00	1.35E-08	1.49E-09	5.09E-09	0.00E+00	6.57E-09
1689	420469.79	3734487.45	1.65E-08	7.55E-08	1.65E-10	9.21E-08	2.26E-09	1.03E-08	0.00E+00	1.26E-08	1.39E-09	4.74E-09	0.00E+00	6.13E-09
1690	420467.3	3734478.51	1.63E-08	7.44E-08	1.63E-10	9.09E-08	2.23E-09	1.02E-08	0.00E+00	1.24E-08	1.37E-09	4.68E-09	0.00E+00	6.05E-09
1691	420464.82	3734469.56	1.60E-08	7.34E-08	1.60E-10	8.96E-08	2.20E-09	1.00E-08	0.00E+00	1.22E-08	1.35E-09	4.61E-09	0.00E+00	5.96E-09
1692	420462.34	3734460.61	1.58E-08	7.23E-08	1.58E-10	8.82E-08	2.17E-09	9.88E-09	0.00E+00	1.20E-08	1.33E-09	4.54E-09	0.00E+00	5.87E-09
1693	420457.38	3734442.72	1.53E-08	7.00E-08	1.53E-10	8.55E-08	2.10E-09	9.57E-09	0.00E+00	1.17E-08	1.29E-09	4.40E-09	0.00E+00	5.69E-09
1694	420454.9	3734433.77	1.51E-08	6.89E-08	1.51E-10	8.41E-08	2.06E-09	9.42E-09	0.00E+00	1.15E-08	1.27E-09	4.33E-09	0.00E+00	5.59E-09
1695	420452.42	3734424.82	1.48E-08	6.77E-08	1.48E-10	8.26E-08	2.03E-09	9.26E-09	0.00E+00	1.13E-08	1.25E-09	4.25E-09	0.00E+00	5.50E-09
1696	420449.94	3734415.87	1.45E-08	6.65E-08	1.45E-10	8.12E-08	1.99E-09	9.09E-09	0.00E+00	1.11E-08	1.22E-09	4.18E-09	0.00E+00	5.40E-09
1697	420447.46	3734406.93	1.43E-08	6.53E-08	1.43E-10	7.97E-08	1.96E-09	8.93E-09	0.00E+00	1.09E-08	1.20E-09	4.10E-09	0.00E+00	5.31E-09
1698	420544.6	3734568.51	3.12E-08	1.43E-07	3.12E-10	1.74E-07	4.28E-09	1.95E-08	0.00E+00	2.38E-08	2.63E-09	8.97E-09	0.00E+00	1.16E-08
1699	420569.62	3734583.03	3.95E-08	1.81E-07	3.95E-10	2.21E-07	5.42E-09	2.47E-08	0.00E+00	3.01E-08	3.33E-09	1.14E-08	0.00E+00	1.47E-08
1700	420577.97	3734587.87	4.27E-08	1.95E-07	4.27E-10	2.38E-07	5.85E-09	2.67E-08	0.00E+00	3.26E-08	3.59E-09	1.23E-08	0.00E+00	1.59E-08
1701	420527.93	3734579.2	2.47E-08	1.13E-07	2.47E-10	1.38E-07	3.39E-09	1.54E-08	0.00E+00	1.88E-08	2.08E-09	7.10E-09	0.00E+00	9.18E-09
1702	420521.3	3734572.59	2.36E-08	1.08E-07	2.36E-10	1.32E-07	3.23E-09	1.47E-08	0.00E+00	1.80E-08	1.98E-09	6.77E-09	0.00E+00	8.75E-09
1703	420514.67	3734565.98	2.24E-08	1.03E-07	2.24E-10	1.25E-07	3.08E-09	1.40E-08	0.00E+00	1.71E-08	1.89E-09	6.45E-09	0.00E+00	8.34E-09
1704	420481.52	3734532.93	1.73E-08	7.93E-08	1.73E-10	9.68E-08	2.38E-09	1.08E-08	0.00E+00	1.32E-08	1.46E-09	4.98E-09	0.00E+00	6.44E-09
1705	420474.89	3734526.32	1.64E-08	7.52E-08	1.64E-10	9.18E-08	2.25E-09	1.03E-08	0.00E+00	1.25E-08	1.38E-09	4.72E-09	0.00E+00	6.11E-09
1706	420468.26	3734519.71	1.56E-08	7.13E-08	1.56E-10	8.70E-08	2.14E-09	9.75E-09	0.00E+00	1.19E-08	1.31E-09	4.48E-09	0.00E+00	5.79E-09
1707	420461.63	3734513.1	1.48E-08	6.76E-08	1.48E-10	8.26E-08	2.03E-09	9.25E-09	0.00E+00	1.13E-08	1.24E-09	4.25E-09	0.00E+00	5.49E-09
1708	420452.5	3734497.47	1.39E-08	6.34E-08	1.39E-10	7.74E-08	1.90E-09	8.67E-09	0.00E+00	1.06E-08	1.17E-09	3.98E-09	0.00E+00	5.15E-09
1709	420449.99	3734488.44	1.37E-08	6.26E-08	1.37E-10	7.64E-08	1.88E-09	8.56E-09	0.00E+00	1.04E-08	1.15E-09	3.93E-09	0.00E+00	5.09E-09
1710	420447.49	3734479.42	1.35E-08	6.18E-08	1.35E-10	7.55E-08	1.85E-09	8.45E-09	0.00E+00	1.03E-08	1.14E-09	3.89E-09	0.00E+00	5.02E-09
1711	420444.99	3734470.4	1.33E-08	6.10E-08	1.33E-10	7.45E-08	1.83E-09	8.34E-09	0.00E+00	1.02E-08	1.12E-09	3.84E-09	0.00E+00	4.96E-09
1712	420534.56	3734585.81	2.58E-08	1.18E-07	2.58E-10	1.44E-07	3.54E-09	1.62E-08	0.00E+00	1.97E-08	2.17E-09	7.42E-09	0.00E+00	9.60E-09
1713	420542.9	3734590.65	2.77E-08	1.27E-07	2.77E-10	1.55E-07	3.80E-09	1.73E-08	0.00E+00	2.11E-08	2.33E-09	7.96E-09	0.00E+00	1.03E-08
1714	420551.24	3734595.49	2.97E-08	1.36E-07	2.96E-10	1.66E-07	4.07E-09	1.85E-08	0.00E+00	2.26E-08	2.50E-09	8.52E-09	0.00E+00	1.10E-08
1715	420517.85	3734596.46	2.08E-08	9.50E-08	2.08E-10	1.16E-07	2.85E-09	1.30E-08	0.00E+00	1.58E-08	1.75E-09	5.97E-09	0.00E+00	7.72E-09
1716	420511.17	3734589.8	1.99E-08	9.12E-08	1.99E-10	1.11E-07	2.73E-09	1.25E-08	0.00E+00	1.52E-08	1.68E-09	5.73E-09	0.00E+00	7.41E-09
1717	420504.49	3734583.14	1.91E-08	8.74E-08	1.91E-10	1.07E-07	2.62E-09	1.20E-08	0.00E+00	1.46E-08	1.61E-09	5.49E-09	0.00E+00	7.10E-09
1718	420497.82	3734576.49	1.83E-08	8.37E-08	1.83E-10	1.02E-07	2.51E-09	1.14E-08	0.00E+00	1.40E-08	1.54E-09	5.26E-09	0.00E+00	6.80E-09
1719	420491.14	3734569.83	1.75E-08	8.00E-08	1.75E-10	9.77E-08	2.40E-09	1.09E-08	0.00E+00	1.33E-08	1.47E-09	5.03E-09	0.00E+00	6.50E-09
1720	420484.46	3734563.17	1.67E-08	7.64E-08	1.67E-10	9.33E-08	2.29E-09	1.04E-08	0.00E+00	1.27E-08	1.41E-09	4.80E-09	0.00E+00	6.21E-09
1721	420457.76	3734536.55	1.38E-08	6.31E-08	1.38E-10	7.70E-08	1.89E-09	8.62E-09	0.00E+00	1.05E-08	1.16E-09	3.96E-09	0.00E+00	5.12E-09

1722	420451.08	3734529.89	1.31E-08	6.00E-08	1.31E-10	7.33E-08	1.80E-09	8.21E-09	0.00E+00	1.00E-08	1.10E-09	3.77E-09	0.00E+00	4.88E-09
1723	420444.4	3734523.23	1.25E-08	5.72E-08	1.25E-10	6.98E-08	1.71E-09	7.82E-09	0.00E+00	9.54E-09	1.05E-09	3.59E-09	0.00E+00	4.65E-09
1724	420425.13	3734471.15	1.12E-08	5.14E-08	1.12E-10	6.28E-08	1.54E-09	7.03E-09	0.00E+00	8.58E-09	9.46E-10	3.23E-09	0.00E+00	4.18E-09
1725	420422.61	3734462.07	1.11E-08	5.08E-08	1.11E-10	6.20E-08	1.52E-09	6.95E-09	0.00E+00	8.47E-09	9.35E-10	3.19E-09	0.00E+00	4.13E-09
1726	420415.05	3734434.81	1.07E-08	4.89E-08	1.07E-10	5.96E-08	1.46E-09	6.68E-09	0.00E+00	8.14E-09	8.99E-10	3.07E-09	0.00E+00	3.97E-09
1727	420412.54	3734425.72	1.05E-08	4.82E-08	1.05E-10	5.89E-08	1.45E-09	6.59E-09	0.00E+00	8.04E-09	8.87E-10	3.03E-09	0.00E+00	3.92E-09
1728	420410.02	3734416.64	1.04E-08	4.76E-08	1.04E-10	5.81E-08	1.43E-09	6.50E-09	0.00E+00	7.93E-09	8.75E-10	2.99E-09	0.00E+00	3.86E-09
1729	420407.5	3734407.55	1.03E-08	4.69E-08	1.03E-10	5.73E-08	1.41E-09	6.41E-09	0.00E+00	7.82E-09	8.63E-10	2.95E-09	0.00E+00	3.81E-09
1730	420524.52	3734603.11	2.16E-08	9.87E-08	2.16E-10	1.21E-07	2.96E-09	1.35E-08	0.00E+00	1.65E-08	1.82E-09	6.20E-09	0.00E+00	8.02E-09
1731	420532.87	3734607.95	2.30E-08	1.05E-07	2.30E-10	1.28E-07	3.15E-09	1.44E-08	0.00E+00	1.75E-08	1.93E-09	6.60E-09	0.00E+00	8.53E-09
1732	420541.21	3734612.79	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.35E-09	1.53E-08	0.00E+00	1.86E-08	2.05E-09	7.01E-09	0.00E+00	9.07E-09
1733	420549.55	3734617.63	2.59E-08	1.18E-07	2.59E-10	1.44E-07	3.55E-09	1.62E-08	0.00E+00	1.97E-08	2.18E-09	7.44E-09	0.00E+00	9.62E-09
1734	420507.77	3734613.72	1.76E-08	8.06E-08	1.76E-10	9.84E-08	2.42E-09	1.10E-08	0.00E+00	1.34E-08	1.48E-09	5.06E-09	0.00E+00	6.55E-09
1735	420501.05	3734607.02	1.70E-08	7.78E-08	1.70E-10	9.50E-08	2.33E-09	1.06E-08	0.00E+00	1.30E-08	1.43E-09	4.89E-09	0.00E+00	6.32E-09
1736	420494.34	3734600.32	1.64E-08	7.50E-08	1.64E-10	9.16E-08	2.25E-09	1.03E-08	0.00E+00	1.25E-08	1.38E-09	4.71E-09	0.00E+00	6.09E-09
1737	420487.62	3734593.63	1.58E-08	7.22E-08	1.58E-10	8.81E-08	2.16E-09	9.87E-09	0.00E+00	1.20E-08	1.33E-09	4.54E-09	0.00E+00	5.87E-09
1738	420480.9	3734586.93	1.52E-08	6.94E-08	1.52E-10	8.47E-08	2.08E-09	9.49E-09	0.00E+00	1.16E-08	1.28E-09	4.36E-09	0.00E+00	5.64E-09
1739	420474.19	3734580.23	1.46E-08	6.66E-08	1.46E-10	8.13E-08	2.00E-09	9.11E-09	0.00E+00	1.11E-08	1.23E-09	4.19E-09	0.00E+00	5.41E-09
1740	420467.47	3734573.54	1.40E-08	6.38E-08	1.40E-10	7.79E-08	1.91E-09	8.73E-09	0.00E+00	1.06E-08	1.17E-09	4.01E-09	0.00E+00	5.19E-09
1741	420460.76	3734566.84	1.34E-08	6.11E-08	1.34E-10	7.46E-08	1.83E-09	8.36E-09	0.00E+00	1.02E-08	1.13E-09	3.84E-09	0.00E+00	4.97E-09
1742	420454.04	3734560.15	1.28E-08	5.85E-08	1.28E-10	7.14E-08	1.75E-09	8.00E-09	0.00E+00	9.75E-09	1.08E-09	3.68E-09	0.00E+00	4.75E-09
1743	420427.17	3734533.36	1.07E-08	4.89E-08	1.07E-10	5.97E-08	1.47E-09	6.68E-09	0.00E+00	8.15E-09	8.99E-10	3.07E-09	0.00E+00	3.97E-09
1744	420417.92	3734517.53	1.01E-08	4.63E-08	1.01E-10	5.65E-08	1.39E-09	6.33E-09	0.00E+00	7.72E-09	8.52E-10	2.91E-09	0.00E+00	3.76E-09
1745	420415.39	3734508.39	1.00E-08	4.58E-08	1.00E-10	5.60E-08	1.37E-09	6.27E-09	0.00E+00	7.64E-09	8.43E-10	2.88E-09	0.00E+00	3.72E-09
1746	420412.86	3734499.25	9.92E-09	4.54E-08	9.92E-11	5.54E-08	1.36E-09	6.20E-09	0.00E+00	7.56E-09	8.35E-10	2.85E-09	0.00E+00	3.69E-09
1747	420410.32	3734490.11	9.81E-09	4.49E-08	9.81E-11	5.48E-08	1.35E-09	6.14E-09	0.00E+00	7.48E-09	8.26E-10	2.82E-09	0.00E+00	3.65E-09
1748	420407.79	3734480.97	9.70E-09	4.44E-08	9.70E-11	5.42E-08	1.33E-09	6.07E-09	0.00E+00	7.40E-09	8.16E-10	2.79E-09	0.00E+00	3.60E-09
1749	420405.25	3734471.83	9.59E-09	4.39E-08	9.59E-11	5.35E-08	1.31E-09	6.00E-09	0.00E+00	7.31E-09	8.07E-10	2.76E-09	0.00E+00	3.56E-09
1750	420402.72	3734462.69	9.48E-09	4.34E-08	9.48E-11	5.29E-08	1.30E-09	5.93E-09	0.00E+00	7.23E-09	7.98E-10	2.72E-09	0.00E+00	3.52E-09
1751	420395.12	3734435.27	9.15E-09	4.18E-08	9.15E-11	5.11E-08	1.25E-09	5.72E-09	0.00E+00	6.98E-09	7.70E-10	2.63E-09	0.00E+00	3.40E-09
1752	420392.58	3734426.13	9.04E-09	4.13E-08	9.04E-11	5.05E-08	1.24E-09	5.65E-09	0.00E+00	6.89E-09	7.61E-10	2.60E-09	0.00E+00	3.36E-09
1753	420390.05	3734416.99	8.93E-09	4.08E-08	8.93E-11	4.99E-08	1.22E-09	5.59E-09	0.00E+00	6.81E-09	7.52E-10	2.57E-09	0.00E+00	3.32E-09
1754	420387.51	3734407.85	8.82E-09	4.03E-08	8.82E-11	4.93E-08	1.21E-09	5.52E-09	0.00E+00	6.73E-09	7.42E-10	2.54E-09	0.00E+00	3.28E-09
1755	420514.49	3734620.41	1.82E-08	8.34E-08	1.82E-10	1.02E-07	2.50E-09	1.14E-08	0.00E+00	1.39E-08	1.53E-09	5.24E-09	0.00E+00	6.77E-09
1756	420522.83	3734625.25	1.93E-08	8.81E-08	1.93E-10	1.08E-07	2.64E-09	1.20E-08	0.00E+00	1.47E-08	1.62E-09	5.54E-09	0.00E+00	7.16E-09
1757	420531.17	3734630.09	2.03E-08	9.30E-08	2.03E-10	1.14E-07	2.79E-09	1.27E-08	0.00E+00	1.55E-08	1.71E-09	5.85E-09	0.00E+00	7.56E-09
1758	420539.51	3734634.93	2.14E-08	9.80E-08	2.14E-10	1.20E-07	2.94E-09	1.34E-08	0.00E+00	1.63E-08	1.80E-09	6.16E-09	0.00E+00	7.97E-09
1759	420497.7	3734630.98	1.51E-08	6.91E-08	1.51E-10	8.44E-08	2.07E-09	9.45E-09	0.00E+00	1.15E-08	1.27E-09	4.34E-09	0.00E+00	5.61E-09
1760	420490.95	3734624.25	1.46E-08	6.70E-08	1.46E-10	8.18E-08	2.01E-09	9.16E-09	0.00E+00	1.12E-08	1.23E-09	4.21E-09	0.00E+00	5.44E-09
1761	420484.2	3734617.52	1.42E-08	6.48E-08	1.42E-10	7.91E-08	1.94E-09	8.86E-09	0.00E+00	1.08E-08	1.19E-09	4.07E-09	0.00E+00	5.27E-09
1762	420477.45	3734610.79	1.37E-08	6.27E-08	1.37E-10	7.65E-08	1.88E-09	8.57E-09	0.00E+00	1.04E-08	1.15E-09	3.94E-09	0.00E+00	5.09E-09
1763	420470.7	3734604.06	1.32E-08	6.05E-08	1.32E-10	7.39E-08	1.81E-09	8.27E-09	0.00E+00	1.01E-08	1.11E-09	3.80E-09	0.00E+00	4.91E-09
1764	420463.95	3734597.33	1.28E-08	5.83E-08	1.27E-10	7.12E-08	1.75E-09	7.97E-09	0.00E+00	9.72E-09	1.07E-09	3.66E-09	0.00E+00	4.74E-09
1765	420457.19	3734590.6	1.23E-08	5.61E-08	1.23E-10	6.85E-08	1.68E-09	7.68E-09	0.00E+00	9.36E-09	1.03E-09	3.53E-09	0.00E+00	4.56E-09
1766	420450.44	3734583.87	1.18E-08	5.40E-08	1.18E-10	6.59E-08	1.62E-09	7.38E-09	0.00E+00	9.00E-09	9.94E-10	3.39E-09	0.00E+00	4.39E-09
1767	420443.69	3734577.14	1.13E-08	5.19E-08	1.13E-10	6.33E-08	1.56E-09	7.09E-09	0.00E+00	8.65E-09	9.55E-10	3.26E-09	0.00E+00	4.22E-09
1768	420436.94	3734570.41	1.09E-08	4.98E-08	1.09E-10	6.08E-08	1.49E-09	6.81E-09	0.00E+00	8.31E-09	9.17E-10	3.13E-09	0.00E+00	4.05E-09
1769	420400.64	3734527.57	8.77E-09	4.01E-08	8.76E-11	4.89E-08	1.20E-09	5.48E-09	0.00E+00	6.68E-09	7.37E-10	2.52E-09	0.00E+00	3.26E-09
1770	420398.09	3734518.38	8.69E-09	3.97E-08	8.68E-11	4.85E-08	1.19E-09	5.43E-09	0.00E+00	6.62E-09	7.31E-10	2.50E-09	0.00E+00	3.23E-09
1771	420395.55	3734509.19	8.61E-09	3.94E-08	8.61E-11	4.81E-08	1.18E-09	5.38E-09	0.00E+00	6.56E-09	7.24E-10	2.47E-09	0.00E+00	3.20E-09
1772	420393	3734500.01	8.53E-09	3.90E-08	8.52E-11	4.76E-08	1.17E-09	5.33E-09	0.00E+00	6.50E-09	7.17E-10	2.45E-09	0.00E+00	3.17E-09
1773	420390.45	3734490.82	8.44E-09	3.86E-08	8.44E-11	4.71E-08	1.16E-09	5.28E-09	0.00E+00	6.43E-09	7.10E-10	2.43E-09	0.00E+00	3.14E-09
1774	420387.91	3734481.64	8.35E-09	3.82E-08	8.35E-11	4.66E-08	1.15E-09	5.22E-09	0.00E+00	6.37E-09	7.03E-10	2.40E-09	0.00E+00	3.10E-09
1775	420385.36	3734472.45	8.27E-09	3.78E-08	8.26E-11	4.61E-08	1.13E-09	5.17E-09	0.00E+00	6.30E-09	6.95E-10	2.37E-09	0.00E+00	3.07E-09
1776	420382.81	3734463.26	8.18E-09	3.74E-08	8.17E-11	4.56E-08	1.12E-09	5.11E-09	0.00E+00	6.23E-09	6.88E-10	2.35E-09	0.00E+00	3.04E-09
1777	420375.17	3734435.71	7.91E-09	3.62E-08	7.91E-11	4.42E-08	1.08E-09	4.95E-09	0.00E+00	6.03E-09	6.66E-10	2.27E-09	0.00E+00	2.94E-09
1778	420372.62	3734426.52	7.83E-09	3.58E-08	7.82E-11	4.37E-08	1.07E-09	4.89E-09	0.00E+00	5.97E-09	6.59E-10	2.25E-09	0.00E+00	2.91E-09
1779	420370.08	3734417.33	7.74E-09	3.54E-08	7.74E-11	4.32E-08	1.06E-09	4.84E-09	0.00E+00	5.90E-09	6.52E-10	2.23E-09	0.00E+00	2.88E-09
1780	420367.53	3734408.15	7.66E-09	3.50E-08	7.65E-11	4.27E-08	1.05E-09	4.79E-09	0.00E+00	5.84E-09	6.44E-10	2.20E-09	0.00E+00	2.84E-09
1781	420537.82	3734657.07	1.88E-08	8.61E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	0.00E+00	1.44E-08	1.58E-09	5.41E-09	0.00E+00	6.99E-09
1782	420474.07	3734634.73	1.23E-08	5.64E-08	1.23E-10	6.88E-08	1.69E-09	7.71E-09	0.00E+00	9.40E-09	1.04E-09	3.54E-09	0.00E+00	4.58E-09
1783	420467.29	3734627.97	1.20E-08	5.47E-08	1.20E-10	6.68E-08	1.64E-09	7.48E-09	0.00E+00	9.12E-09	1.01E-09	3.44E-09	0.00E+00	4.44E-09
1784	420460.51	3734621.21	1.16E-08	5.30E-08	1.16E-10	6.47E-08	1.59E-09	7.25E-09	0.00E+00	8.84E-09	9.75E-10	3.33E-09	0.00E+00	4.31E-09
1785	420453.73	3734614.45	1.12E-08	5.13E-08	1.12E-10	6.26E-08	1.54E-09	7.01E-09	0.00E+00	8.55E-09	9.44E-10	3.22E-09	0.00E+00	4.17E-09
1786	420446.95	3734607.69	1.08E-08	4.96E-08	1.08E-10	6.05E-08	1.49E-09	6.78E-09	0.00E+00	8.27E-09	9.12E-10	3.12E-09	0.00E+00	4.03E-09
1787	420440.17	3734600.93	1.05E-08	4.79E-08	1.05E-10	5.84E-08	1.43E-09	6.54E-09	0.00E+00	7.98E-09	8.81E-10	3.01E-09	0.00E+00	3.89E-09
1788	420413.04	3734573.88	9.01E-09	4.12E-08	9.01E-11	5.03E-08	1.24E-09	5.63E-09	0.00E+00	6.87E-09	7.58E-10	2.59E-09	0.00E+00	3.35E-09
1789	420406.26	3734567.12	8.67E-09	3.96E-08	8.66E-11	4.84E-08	1.19E-09	5.42E-09	0.00E+00	6.61E-09	7.29E-10	2.49E-09	0.00E+00	3.22E-09
1790	420399.48	3734560.36	8.33E-09	3.81E-08	8.33E-11	4.65E-08	1.14E-09	5.21E-09	0.00E+00	6.35E-09	7.01E-10	2.39E-09	0.00E+00	3.10E-09
1791	420383.36	3734537.61	7.65E-09	3.50E-08	7.65E-11	4.27E-08	1.05E-09	4.78E-09	0.00E+00	5.83E-09	6.44E-10	2.20E-09	0.00E+00	2.84E-09
1792	420380.8	3734528.39	7.59E-09	3.47E-08	7.59E-11	4.24E-08	1.04E-09	4.75E-09	0.00E+00	5.79E-09	6.39E-10	2.18E-09	0.00E+00	2.82E-09
1793	420378.24	3734519.16	7.53E-09	3.44E-08	7.53E-11	4.20E-08	1.03E-09	4.71E-09	0.00E+00	5.74E-09	6.33E-10	2.16E-09	0.00E+00	2.80E-09
1794	420375.69	3734509.93	7.46E-09	3.41E-08	7.46E-11	4.17E-08	1.02E-09	4.67E-09	0.00E+00	5.69E-09	6.28E-10	2.14E-09	0.00E+00	2.77E-09
1795	420373.13	3734500.7	7.40E-09	3.38E-08	7.39E-11	4.13E-08	1.01E-09	4.62E-09	0.00E+00	5.64E-09	6.22E-10	2.13E-09	0.00E+00	2.75E-09
1796	420370.57	3734491.48	7.33E-09	3.35E-08	7.32E-11	4.09E-08	1.00E-09	4.58E-09	0.00E+00	5.58E-09	6.16E-10	2.10E-09	0.00E+00	2.72E-09

1797	420368.01	3734482.25	7.25E-09	3.32E-08	7.25E-11	4.05E-08	9.95E-10	4.54E-09	0.00E+00	5.53E-09	6.10E-10	2.08E-09	0.00E+00	2.70E-09
1798	420365.45	3734473.02	7.18E-09	3.28E-08	7.18E-11	4.01E-08	9.85E-10	4.49E-09	0.00E+00	5.48E-09	6.04E-10	2.06E-09	0.00E+00	2.67E-09
1799	420362.89	3734463.8	7.11E-09	3.25E-08	7.11E-11	3.97E-08	9.75E-10	4.45E-09	0.00E+00	5.42E-09	5.98E-10	2.04E-09	0.00E+00	2.64E-09
1800	420355.22	3734436.11	6.90E-09	3.16E-08	6.90E-11	3.85E-08	9.46E-10	4.32E-09	0.00E+00	5.26E-09	5.81E-10	1.98E-09	0.00E+00	2.56E-09
1801	420352.66	3734426.89	6.83E-09	3.12E-08	6.83E-11	3.81E-08	9.37E-10	4.27E-09	0.00E+00	5.21E-09	5.75E-10	1.96E-09	0.00E+00	2.54E-09
1802	420350.1	3734417.66	6.77E-09	3.09E-08	6.76E-11	3.78E-08	9.27E-10	4.23E-09	0.00E+00	5.16E-09	5.69E-10	1.94E-09	0.00E+00	2.51E-09
1803	420347.54	3734408.43	6.70E-09	3.06E-08	6.69E-11	3.74E-08	9.18E-10	4.19E-09	0.00E+00	5.11E-09	5.63E-10	1.92E-09	0.00E+00	2.49E-09
1804	420502.76	3734659.85	1.40E-08	6.42E-08	1.40E-10	7.83E-08	1.92E-09	8.77E-09	0.00E+00	1.07E-08	1.18E-09	4.03E-09	0.00E+00	5.21E-09
1805	420511.1	3734664.69	1.47E-08	6.70E-08	1.47E-10	8.18E-08	2.01E-09	9.17E-09	0.00E+00	1.12E-08	1.23E-09	4.21E-09	0.00E+00	5.45E-09
1806	420519.44	3734669.53	1.53E-08	6.99E-08	1.53E-10	8.54E-08	2.10E-09	9.56E-09	0.00E+00	1.17E-08	1.29E-09	4.39E-09	0.00E+00	5.68E-09
1807	420527.78	3734674.37	1.59E-08	7.28E-08	1.59E-10	8.89E-08	2.18E-09	9.95E-09	0.00E+00	1.21E-08	1.34E-09	4.57E-09	0.00E+00	5.91E-09
1808	420467.87	3734683.16	9.99E-09	4.57E-08	9.99E-11	5.58E-08	1.37E-09	6.25E-09	0.00E+00	7.62E-09	8.41E-10	2.87E-09	0.00E+00	3.71E-09
1809	420461.4	3734676.71	9.78E-09	4.47E-08	9.77E-11	5.46E-08	1.34E-09	6.11E-09	0.00E+00	7.45E-09	8.23E-10	2.81E-09	0.00E+00	3.63E-09
1810	420454.93	3734670.25	9.52E-09	4.35E-08	9.52E-11	5.31E-08	1.31E-09	5.95E-09	0.00E+00	7.26E-09	8.01E-10	2.74E-09	0.00E+00	3.54E-09
1811	420448.45	3734663.8	9.30E-09	4.25E-08	9.30E-11	5.19E-08	1.28E-09	5.82E-09	0.00E+00	7.09E-09	7.83E-10	2.67E-09	0.00E+00	3.46E-09
1812	420416.1	3734631.54	8.18E-09	3.74E-08	8.18E-11	4.57E-08	1.12E-09	5.12E-09	0.00E+00	6.24E-09	6.88E-10	2.35E-09	0.00E+00	3.04E-09
1813	420409.62	3734625.09	7.95E-09	3.63E-08	7.94E-11	4.44E-08	1.09E-09	4.97E-09	0.00E+00	6.06E-09	6.69E-10	2.28E-09	0.00E+00	2.95E-09
1814	420396.68	3734612.18	7.49E-09	3.42E-08	7.48E-11	4.18E-08	1.03E-09	4.68E-09	0.00E+00	5.71E-09	6.30E-10	2.15E-09	0.00E+00	2.78E-09
1815	420390.21	3734605.73	7.26E-09	3.32E-08	7.25E-11	4.05E-08	9.95E-10	4.54E-09	0.00E+00	5.53E-09	6.11E-10	2.09E-09	0.00E+00	2.70E-09
1816	420383.74	3734599.28	7.03E-09	3.22E-08	7.03E-11	3.93E-08	9.64E-10	4.40E-09	0.00E+00	5.36E-09	5.92E-10	2.02E-09	0.00E+00	2.61E-09
1817	420377.27	3734592.83	6.81E-09	3.12E-08	6.81E-11	3.80E-08	9.34E-10	4.26E-09	0.00E+00	5.19E-09	5.73E-10	1.96E-09	0.00E+00	2.53E-09
1818	420370.8	3734586.37	6.60E-09	3.02E-08	6.60E-11	3.68E-08	9.05E-10	4.13E-09	0.00E+00	5.03E-09	5.55E-10	1.90E-09	0.00E+00	2.45E-09
1819	420357.85	3734573.47	6.19E-09	2.83E-08	6.18E-11	3.45E-08	8.48E-10	3.87E-09	0.00E+00	4.72E-09	5.20E-10	1.78E-09	0.00E+00	2.30E-09
1820	420341.61	3734531.79	5.85E-09	2.67E-08	5.84E-11	3.26E-08	8.01E-10	3.65E-09	0.00E+00	4.46E-09	4.92E-10	1.68E-09	0.00E+00	2.17E-09
1821	420339.17	3734522.99	5.80E-09	2.65E-08	5.80E-11	3.24E-08	7.96E-10	3.63E-09	0.00E+00	4.42E-09	4.88E-10	1.67E-09	0.00E+00	2.16E-09
1822	420336.73	3734514.18	5.76E-09	2.63E-08	5.76E-11	3.22E-08	7.90E-10	3.60E-09	0.00E+00	4.39E-09	4.85E-10	1.66E-09	0.00E+00	2.14E-09
1823	420334.29	3734505.37	5.72E-09	2.61E-08	5.71E-11	3.19E-08	7.84E-10	3.57E-09	0.00E+00	4.36E-09	4.81E-10	1.64E-09	0.00E+00	2.12E-09
1824	420331.85	3734496.57	5.67E-09	2.59E-08	5.67E-11	3.17E-08	7.78E-10	3.55E-09	0.00E+00	4.32E-09	4.77E-10	1.63E-09	0.00E+00	2.11E-09
1825	420329.4	3734487.76	5.63E-09	2.57E-08	5.63E-11	3.14E-08	7.72E-10	3.52E-09	0.00E+00	4.29E-09	4.74E-10	1.62E-09	0.00E+00	2.09E-09
1826	420326.96	3734478.95	5.58E-09	2.55E-08	5.58E-11	3.12E-08	7.65E-10	3.49E-09	0.00E+00	4.26E-09	4.70E-10	1.60E-09	0.00E+00	2.07E-09
1827	420324.52	3734470.15	5.54E-09	2.53E-08	5.54E-11	3.09E-08	7.59E-10	3.46E-09	0.00E+00	4.22E-09	4.66E-10	1.59E-09	0.00E+00	2.06E-09
1828	420322.08	3734461.34	5.49E-09	2.51E-08	5.49E-11	3.07E-08	7.53E-10	3.43E-09	0.00E+00	4.19E-09	4.62E-10	1.58E-09	0.00E+00	2.04E-09
1829	420317.19	3734443.73	5.40E-09	2.47E-08	5.40E-11	3.02E-08	7.41E-10	3.38E-09	0.00E+00	4.12E-09	4.55E-10	1.55E-09	0.00E+00	2.01E-09
1830	420314.75	3734434.92	5.36E-09	2.45E-08	5.36E-11	2.99E-08	7.35E-10	3.35E-09	0.00E+00	4.09E-09	4.51E-10	1.54E-09	0.00E+00	1.99E-09
1831	420312.31	3734426.12	5.32E-09	2.43E-08	5.31E-11	2.97E-08	7.29E-10	3.32E-09	0.00E+00	4.05E-09	4.47E-10	1.53E-09	0.00E+00	1.97E-09
1832	420309.87	3734417.31	5.27E-09	2.41E-08	5.27E-11	2.94E-08	7.23E-10	3.30E-09	0.00E+00	4.02E-09	4.43E-10	1.51E-09	0.00E+00	1.96E-09
1833	420307.43	3734408.5	5.23E-09	2.39E-08	5.22E-11	2.92E-08	7.16E-10	3.27E-09	0.00E+00	3.98E-09	4.40E-10	1.50E-09	0.00E+00	1.94E-09
1834	420482.68	3734694.45	1.06E-08	4.84E-08	1.06E-10	5.91E-08	1.45E-09	6.62E-09	0.00E+00	8.07E-09	8.91E-10	3.04E-09	0.00E+00	3.93E-09
1835	420491.03	3734699.29	1.10E-08	5.02E-08	1.10E-10	6.13E-08	1.51E-09	6.86E-09	0.00E+00	8.37E-09	9.24E-10	3.15E-09	0.00E+00	4.08E-09
1836	420499.37	3734704.13	1.14E-08	5.19E-08	1.14E-10	6.34E-08	1.56E-09	7.10E-09	0.00E+00	8.66E-09	9.56E-10	3.26E-09	0.00E+00	4.22E-09
1837	420507.71	3734708.97	1.17E-08	5.37E-08	1.17E-10	6.55E-08	1.61E-09	7.34E-09	0.00E+00	8.95E-09	9.88E-10	3.37E-09	0.00E+00	4.36E-09
1838	420447.72	3734717.68	7.84E-09	3.58E-08	7.83E-11	4.38E-08	1.07E-09	4.90E-09	0.00E+00	5.98E-09	6.59E-10	2.25E-09	0.00E+00	2.91E-09
1839	420441.18	3734711.16	7.70E-09	3.52E-08	7.70E-11	4.30E-08	1.06E-09	4.81E-09	0.00E+00	5.87E-09	6.48E-10	2.21E-09	0.00E+00	2.86E-09
1840	420434.64	3734704.64	7.56E-09	3.45E-08	7.55E-11	4.22E-08	1.04E-09	4.72E-09	0.00E+00	5.76E-09	6.36E-10	2.17E-09	0.00E+00	2.81E-09
1841	420415	3734685.06	7.10E-09	3.24E-08	7.09E-11	3.96E-08	9.73E-10	4.44E-09	0.00E+00	5.41E-09	5.97E-10	2.04E-09	0.00E+00	2.64E-09
1842	420408.46	3734678.54	6.94E-09	3.17E-08	6.93E-11	3.87E-08	9.51E-10	4.34E-09	0.00E+00	5.29E-09	5.83E-10	1.99E-09	0.00E+00	2.58E-09
1843	420401.91	3734672.01	6.78E-09	3.10E-08	6.77E-11	3.78E-08	9.29E-10	4.24E-09	0.00E+00	5.16E-09	5.70E-10	1.95E-09	0.00E+00	2.52E-09
1844	420395.37	3734665.49	6.62E-09	3.02E-08	6.61E-11	3.69E-08	9.07E-10	4.14E-09	0.00E+00	5.04E-09	5.57E-10	1.90E-09	0.00E+00	2.46E-09
1845	420388.83	3734658.96	6.46E-09	2.95E-08	6.45E-11	3.60E-08	8.85E-10	4.04E-09	0.00E+00	4.92E-09	5.43E-10	1.85E-09	0.00E+00	2.40E-09
1846	420382.28	3734652.44	6.29E-09	2.88E-08	6.29E-11	3.51E-08	8.62E-10	3.93E-09	0.00E+00	4.80E-09	5.29E-10	1.81E-09	0.00E+00	2.34E-09
1847	420375.74	3734645.91	6.13E-09	2.80E-08	6.13E-11	3.42E-08	8.40E-10	3.83E-09	0.00E+00	4.67E-09	5.16E-10	1.76E-09	0.00E+00	2.28E-09
1848	420369.19	3734639.39	5.97E-09	2.73E-08	5.96E-11	3.33E-08	8.18E-10	3.73E-09	0.00E+00	4.55E-09	5.02E-10	1.71E-09	0.00E+00	2.22E-09
1849	420362.65	3734632.86	5.81E-09	2.66E-08	5.80E-11	3.24E-08	7.96E-10	3.63E-09	0.00E+00	4.43E-09	4.89E-10	1.67E-09	0.00E+00	2.16E-09
1850	420356.11	3734626.34	5.65E-09	2.58E-08	5.65E-11	3.15E-08	7.75E-10	3.53E-09	0.00E+00	4.31E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
1851	420349.56	3734619.82	5.50E-09	2.51E-08	5.49E-11	3.07E-08	7.54E-10	3.44E-09	0.00E+00	4.19E-09	4.62E-10	1.58E-09	0.00E+00	2.04E-09
1852	420343.02	3734613.29	5.34E-09	2.44E-08	5.34E-11	2.98E-08	7.33E-10	3.34E-09	0.00E+00	4.07E-09	4.50E-10	1.54E-09	0.00E+00	1.99E-09
1853	420336.47	3734606.77	5.19E-09	2.37E-08	5.19E-11	2.90E-08	7.12E-10	3.25E-09	0.00E+00	3.96E-09	4.37E-10	1.49E-09	0.00E+00	1.93E-09
1854	420329.93	3734600.24	5.05E-09	2.31E-08	5.04E-11	2.82E-08	6.92E-10	3.15E-09	0.00E+00	3.85E-09	4.25E-10	1.45E-09	0.00E+00	1.87E-09
1855	420323.39	3734593.72	4.90E-09	2.24E-08	4.90E-11	2.74E-08	6.72E-10	3.06E-09	0.00E+00	3.74E-09	4.12E-10	1.41E-09	0.00E+00	1.82E-09
1856	420314.37	3734578.29	4.74E-09	2.17E-08	4.74E-11	2.65E-08	6.50E-10	2.96E-09	0.00E+00	3.61E-09	3.99E-10	1.36E-09	0.00E+00	1.76E-09
1857	420311.9	3734569.38	4.72E-09	2.16E-08	4.72E-11	2.64E-08	6.47E-10	2.95E-09	0.00E+00	3.60E-09	3.97E-10	1.36E-09	0.00E+00	1.75E-09
1858	420302.03	3734533.76	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.33E-10	2.89E-09	0.00E+00	3.52E-09	3.89E-10	1.33E-09	0.00E+00	1.72E-09
1859	420299.56	3734524.86	4.59E-09	2.10E-08	4.59E-11	2.56E-08	6.29E-10	2.87E-09	0.00E+00	3.50E-09	3.86E-10	1.32E-09	0.00E+00	1.71E-09
1860	420274.87	3734435.81	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.86E-10	2.67E-09	0.00E+00	3.26E-09	3.59E-10	1.23E-09	0.00E+00	1.59E-09
1861	420272.4	3734426.9	4.24E-09	1.94E-08	4.24E-11	2.37E-08	5.81E-10	2.65E-09	0.00E+00	3.23E-09	3.57E-10	1.22E-09	0.00E+00	1.57E-09
1862	420269.93	3734418	4.21E-09	1.92E-08	4.21E-11	2.35E-08	5.77E-10	2.63E-09	0.00E+00	3.21E-09	3.54E-10	1.21E-09	0.00E+00	1.56E-09
1863	420267.46	3734409.09	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
1864	420454.27	3734724.21	7.97E-09	3.64E-08	7.97E-11	4.45E-08	1.09E-09	4.98E-09	0.00E+00	6.08E-09	6.71E-10	2.29E-09	0.00E+00	2.96E-09
1865	420462.61	3734729.05	8.23E-09	3.76E-08	8.22E-11	4.59E-08	1.13E-09	5.14E-09	0.00E+00	6.27E-09	6.92E-10	2.36E-09	0.00E+00	3.06E-09
1866	420470.95	3734733.89	8.48E-09	3.88E-08	8.47E-11	4.73E-08	1.16E-09	5.30E-09	0.00E+00	6.46E-09	7.13E-10	2.44E-09	0.00E+00	3.15E-09
1867	420427.59	3734752.22	6.29E-09	2.88E-08	6.29E-11	3.51E-08	8.63E-10	3.93E-09	0.00E+00	4.80E-09	5.29E-10	1.81E-09	0.00E+00	2.34E-09
1868	420407.78	3734732.47	6.01E-09	2.75E-08	6.01E-11	3.35E-08	8.24E-10	3.76E-09	0.00E+00	4.58E-09	5.06E-10	1.73E-09	0.00E+00	2.23E-09
1869	420401.17	3734725.89	5.90E-09	2.70E-08	5.90E-11	3.30E-08	8.09E-10	3.69E-09	0.00E+00	4.50E-09	4.97E-10	1.70E-09	0.00E+00	2.19E-09
1870	420394.57	3734719.3	5.79E-09	2.65E-08	5.79E-11	3.23E-08	7.94E-10	3.62E-09	0.00E+00	4.42E-09	4.87E-10	1.66E-09	0.00E+00	2.15E-09
1871	420387.97	3734712.72	5.68E-09	2.60E-08	5.68E-11	3.17E-08	7.79E-10	3.55E-09	0.00E+00	4.33E-09	4.78E-10	1.63E-09	0.00E+00	2.11E-09

1872	420381.36	3734706.13	5.56E-09	2.54E-08	5.56E-11	3.10E-08	7.62E-10	3.48E-09	0.00E+00	4.24E-09	4.68E-10	1.60E-09	0.00E+00	2.07E-09
1873	420374.76	3734699.55	5.44E-09	2.49E-08	5.44E-11	3.04E-08	7.46E-10	3.40E-09	0.00E+00	4.15E-09	4.58E-10	1.56E-09	0.00E+00	2.02E-09
1874	420368.15	3734692.96	5.32E-09	2.43E-08	5.32E-11	2.97E-08	7.30E-10	3.33E-09	0.00E+00	4.06E-09	4.48E-10	1.53E-09	0.00E+00	1.98E-09
1875	420361.55	3734686.38	5.20E-09	2.38E-08	5.20E-11	2.90E-08	7.13E-10	3.25E-09	0.00E+00	3.97E-09	4.38E-10	1.50E-09	0.00E+00	1.93E-09
1876	420354.95	3734679.8	5.09E-09	2.32E-08	5.08E-11	2.84E-08	6.97E-10	3.18E-09	0.00E+00	3.88E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
1877	420348.34	3734673.21	4.97E-09	2.27E-08	4.96E-11	2.77E-08	6.81E-10	3.11E-09	0.00E+00	3.79E-09	4.18E-10	1.43E-09	0.00E+00	1.85E-09
1878	420341.74	3734666.63	4.85E-09	2.22E-08	4.85E-11	2.71E-08	6.65E-10	3.03E-09	0.00E+00	3.70E-09	4.08E-10	1.39E-09	0.00E+00	1.80E-09
1879	420335.13	3734660.04	4.74E-09	2.17E-08	4.73E-11	2.64E-08	6.49E-10	2.96E-09	0.00E+00	3.61E-09	3.99E-10	1.36E-09	0.00E+00	1.76E-09
1880	420328.53	3734653.46	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.34E-10	2.89E-09	0.00E+00	3.52E-09	3.89E-10	1.33E-09	0.00E+00	1.72E-09
1881	420321.93	3734646.87	4.51E-09	2.06E-08	4.51E-11	2.52E-08	6.18E-10	2.82E-09	0.00E+00	3.44E-09	3.80E-10	1.30E-09	0.00E+00	1.68E-09
1882	420315.32	3734640.29	4.40E-09	2.01E-08	4.40E-11	2.46E-08	6.03E-10	2.75E-09	0.00E+00	3.35E-09	3.70E-10	1.26E-09	0.00E+00	1.63E-09
1883	420288.91	3734613.95	3.96E-09	1.81E-08	3.96E-11	2.21E-08	5.43E-10	2.48E-09	0.00E+00	3.02E-09	3.34E-10	1.14E-09	0.00E+00	1.47E-09
1884	420279.81	3734598.38	3.85E-09	1.76E-08	3.85E-11	2.15E-08	5.28E-10	2.41E-09	0.00E+00	2.93E-09	3.24E-10	1.11E-09	0.00E+00	1.43E-09
1885	420277.32	3734589.4	3.83E-09	1.75E-08	3.83E-11	2.14E-08	5.26E-10	2.40E-09	0.00E+00	2.92E-09	3.23E-10	1.10E-09	0.00E+00	1.42E-09
1886	420274.83	3734580.41	3.82E-09	1.75E-08	3.82E-11	2.13E-08	5.24E-10	2.39E-09	0.00E+00	2.91E-09	3.21E-10	1.10E-09	0.00E+00	1.42E-09
1887	420272.34	3734571.42	3.80E-09	1.74E-08	3.80E-11	2.12E-08	5.21E-10	2.38E-09	0.00E+00	2.90E-09	3.20E-10	1.09E-09	0.00E+00	1.41E-09
1888	420269.84	3734562.44	3.79E-09	1.73E-08	3.78E-11	2.11E-08	5.19E-10	2.37E-09	0.00E+00	2.89E-09	3.18E-10	1.09E-09	0.00E+00	1.41E-09
1889	420262.37	3734535.48	3.72E-09	1.70E-08	3.72E-11	2.08E-08	5.11E-10	2.33E-09	0.00E+00	2.84E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
1890	420259.88	3734526.49	3.70E-09	1.69E-08	3.70E-11	2.07E-08	5.08E-10	2.32E-09	0.00E+00	2.82E-09	3.12E-10	1.06E-09	0.00E+00	1.38E-09
1891	420257.39	3734517.5	3.68E-09	1.68E-08	3.68E-11	2.05E-08	5.05E-10	2.30E-09	0.00E+00	2.81E-09	3.10E-10	1.06E-09	0.00E+00	1.37E-09
1892	420254.89	3734508.52	3.66E-09	1.67E-08	3.66E-11	2.04E-08	5.01E-10	2.29E-09	0.00E+00	2.79E-09	3.08E-10	1.05E-09	0.00E+00	1.36E-09
1893	420252.4	3734499.53	3.63E-09	1.66E-08	3.63E-11	2.03E-08	4.98E-10	2.27E-09	0.00E+00	2.77E-09	3.06E-10	1.04E-09	0.00E+00	1.35E-09
1894	420249.91	3734490.55	3.61E-09	1.65E-08	3.61E-11	2.02E-08	4.95E-10	2.26E-09	0.00E+00	2.75E-09	3.04E-10	1.04E-09	0.00E+00	1.34E-09
1895	420247.42	3734481.56	3.59E-09	1.64E-08	3.59E-11	2.00E-08	4.92E-10	2.24E-09	0.00E+00	2.74E-09	3.02E-10	1.03E-09	0.00E+00	1.33E-09
1896	420244.93	3734472.57	3.57E-09	1.63E-08	3.56E-11	1.99E-08	4.89E-10	2.23E-09	0.00E+00	2.72E-09	3.00E-10	1.02E-09	0.00E+00	1.32E-09
1897	420234.96	3734436.63	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.17E-09	0.00E+00	2.65E-09	2.93E-10	9.99E-10	0.00E+00	1.29E-09
1898	420232.47	3734427.64	3.45E-09	1.58E-08	3.45E-11	1.93E-08	4.74E-10	2.16E-09	0.00E+00	2.63E-09	2.91E-10	9.93E-10	0.00E+00	1.28E-09
1899	420229.98	3734418.65	3.43E-09	1.57E-08	3.43E-11	1.92E-08	4.71E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.86E-10	0.00E+00	1.28E-09
1900	420227.48	3734409.67	3.41E-09	1.56E-08	3.41E-11	1.90E-08	4.68E-10	2.13E-09	0.00E+00	2.60E-09	2.87E-10	9.80E-10	0.00E+00	1.27E-09
1901	420434.19	3734758.81	6.38E-09	2.91E-08	6.37E-11	3.56E-08	8.74E-10	3.99E-09	0.00E+00	4.86E-09	5.36E-10	1.83E-09	0.00E+00	2.37E-09
1902	420442.54	3734763.65	6.55E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	0.00E+00	4.99E-09	5.51E-10	1.88E-09	0.00E+00	2.43E-09
1903	420450.88	3734768.49	6.71E-09	3.07E-08	6.71E-11	3.75E-08	9.20E-10	4.20E-09	0.00E+00	5.12E-09	5.65E-10	1.93E-09	0.00E+00	2.49E-09
1904	420459.22	3734773.33	6.88E-09	3.15E-08	6.88E-11	3.84E-08	9.43E-10	4.30E-09	0.00E+00	5.24E-09	5.79E-10	1.98E-09	0.00E+00	2.56E-09
1905	420467.56	3734778.17	7.04E-09	3.22E-08	7.04E-11	3.93E-08	9.65E-10	4.40E-09	0.00E+00	5.37E-09	5.92E-10	2.02E-09	0.00E+00	2.62E-09
1906	420407.47	3734786.77	5.12E-09	2.34E-08	5.12E-11	2.86E-08	7.02E-10	3.20E-09	0.00E+00	3.91E-09	4.31E-10	1.47E-09	0.00E+00	1.90E-09
1907	420387.5	3734766.87	4.94E-09	2.26E-08	4.94E-11	2.76E-08	6.77E-10	3.09E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
1908	420380.85	3734760.23	4.87E-09	2.22E-08	4.86E-11	2.72E-08	6.67E-10	3.04E-09	0.00E+00	3.71E-09	4.09E-10	1.40E-09	0.00E+00	1.81E-09
1909	420374.2	3734753.6	4.79E-09	2.19E-08	4.78E-11	2.67E-08	6.56E-10	2.99E-09	0.00E+00	3.65E-09	4.03E-10	1.38E-09	0.00E+00	1.78E-09
1910	420367.54	3734746.97	4.71E-09	2.15E-08	4.70E-11	2.63E-08	6.45E-10	2.94E-09	0.00E+00	3.59E-09	3.96E-10	1.35E-09	0.00E+00	1.75E-09
1911	420360.89	3734740.33	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.34E-10	2.89E-09	0.00E+00	3.52E-09	3.89E-10	1.33E-09	0.00E+00	1.72E-09
1912	420354.23	3734733.7	4.53E-09	2.07E-08	4.53E-11	2.53E-08	6.22E-10	2.84E-09	0.00E+00	3.46E-09	3.82E-10	1.30E-09	0.00E+00	1.68E-09
1913	420347.58	3734727.06	4.45E-09	2.03E-08	4.44E-11	2.48E-08	6.09E-10	2.78E-09	0.00E+00	3.39E-09	3.74E-10	1.28E-09	0.00E+00	1.65E-09
1914	420340.92	3734720.43	4.36E-09	1.99E-08	4.35E-11	2.43E-08	5.97E-10	2.72E-09	0.00E+00	3.32E-09	3.67E-10	1.25E-09	0.00E+00	1.62E-09
1915	420334.27	3734713.79	4.27E-09	1.95E-08	4.26E-11	2.38E-08	5.85E-10	2.67E-09	0.00E+00	3.25E-09	3.59E-10	1.23E-09	0.00E+00	1.59E-09
1916	420327.62	3734707.16	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
1917	420320.96	3734700.52	4.09E-09	1.87E-08	4.09E-11	2.28E-08	5.61E-10	2.56E-09	0.00E+00	3.12E-09	3.44E-10	1.18E-09	0.00E+00	1.52E-09
1918	420314.31	3734693.89	4.01E-09	1.83E-08	4.01E-11	2.24E-08	5.49E-10	2.51E-09	0.00E+00	3.06E-09	3.37E-10	1.15E-09	0.00E+00	1.49E-09
1919	420294.34	3734673.99	3.75E-09	1.72E-08	3.75E-11	2.10E-08	5.15E-10	2.35E-09	0.00E+00	2.86E-09	3.16E-10	1.08E-09	0.00E+00	1.39E-09
1920	420287.69	3734667.35	3.67E-09	1.68E-08	3.67E-11	2.05E-08	5.03E-10	2.30E-09	0.00E+00	2.80E-09	3.09E-10	1.05E-09	0.00E+00	1.36E-09
1921	420281.04	3734660.72	3.59E-09	1.64E-08	3.59E-11	2.00E-08	4.92E-10	2.24E-09	0.00E+00	2.74E-09	3.02E-10	1.03E-09	0.00E+00	1.33E-09
1922	420274.38	3734654.08	3.51E-09	1.60E-08	3.51E-11	1.96E-08	4.81E-10	2.19E-09	0.00E+00	2.67E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
1923	420267.73	3734647.45	3.43E-09	1.57E-08	3.43E-11	1.91E-08	4.70E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.85E-10	0.00E+00	1.27E-09
1924	420261.07	3734640.81	3.35E-09	1.53E-08	3.34E-11	1.87E-08	4.59E-10	2.09E-09	0.00E+00	2.55E-09	2.82E-10	9.62E-10	0.00E+00	1.24E-09
1925	420254.42	3734634.18	3.27E-09	1.49E-08	3.26E-11	1.82E-08	4.48E-10	2.04E-09	0.00E+00	2.49E-09	2.75E-10	9.38E-10	0.00E+00	1.21E-09
1926	420245.25	3734618.49	3.18E-09	1.45E-08	3.18E-11	1.77E-08	4.36E-10	1.99E-09	0.00E+00	2.42E-09	2.67E-10	9.13E-10	0.00E+00	1.18E-09
1927	420242.74	3734609.44	3.17E-09	1.45E-08	3.16E-11	1.77E-08	4.34E-10	1.98E-09	0.00E+00	2.41E-09	2.66E-10	9.10E-10	0.00E+00	1.18E-09
1928	420240.23	3734600.38	3.16E-09	1.44E-08	3.15E-11	1.76E-08	4.33E-10	1.97E-09	0.00E+00	2.41E-09	2.65E-10	9.07E-10	0.00E+00	1.17E-09
1929	420237.72	3734591.33	3.14E-09	1.44E-08	3.14E-11	1.76E-08	4.31E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.04E-10	0.00E+00	1.17E-09
1930	420235.21	3734582.27	3.13E-09	1.43E-08	3.13E-11	1.75E-08	4.29E-10	1.96E-09	0.00E+00	2.39E-09	2.64E-10	9.00E-10	0.00E+00	1.16E-09
1931	420232.7	3734573.22	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	0.00E+00	2.38E-09	2.62E-10	8.96E-10	0.00E+00	1.16E-09
1932	420230.19	3734564.16	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.26E-10	1.94E-09	0.00E+00	2.37E-09	2.61E-10	8.92E-10	0.00E+00	1.15E-09
1933	420222.66	3734537	3.06E-09	1.40E-08	3.06E-11	1.71E-08	4.19E-10	1.91E-09	0.00E+00	2.33E-09	2.57E-10	8.78E-10	0.00E+00	1.14E-09
1934	420220.15	3734527.94	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	0.00E+00	2.32E-09	2.56E-10	8.74E-10	0.00E+00	1.13E-09
1935	420217.63	3734518.89	3.02E-09	1.38E-08	3.02E-11	1.69E-08	4.14E-10	1.89E-09	0.00E+00	2.30E-09	2.54E-10	8.69E-10	0.00E+00	1.12E-09
1936	420215.12	3734509.83	3.01E-09	1.37E-08	3.01E-11	1.68E-08	4.12E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.64E-10	0.00E+00	1.12E-09
1937	420212.61	3734500.78	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.10E-10	1.87E-09	0.00E+00	2.28E-09	2.52E-10	8.59E-10	0.00E+00	1.11E-09
1938	420210.1	3734491.72	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.08E-10	1.86E-09	0.00E+00	2.27E-09	2.50E-10	8.55E-10	0.00E+00	1.11E-09
1939	420207.59	3734482.67	2.96E-09	1.35E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	0.00E+00	2.26E-09	2.49E-10	8.51E-10	0.00E+00	1.10E-09
1940	420205.08	3734473.61	2.95E-09	1.35E-08	2.94E-11	1.64E-08	4.04E-10	1.84E-09	0.00E+00	2.25E-09	2.48E-10	8.47E-10	0.00E+00	1.09E-09
1941	420202.57	3734464.56	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	0.00E+00	2.23E-09	2.47E-10	8.42E-10	0.00E+00	1.09E-09
1942	420195.04	3734437.39	2.88E-09	1.32E-08	2.88E-11	1.61E-08	3.95E-10	1.80E-09	0.00E+00	2.20E-09	2.42E-10	8.28E-10	0.00E+00	1.07E-09
1943	420192.53	3734428.34	2.87E-09	1.31E-08	2.86E-11	1.60E-08	3.93E-10	1.79E-09	0.00E+00	2.18E-09	2.41E-10	8.23E-10	0.00E+00	1.06E-09
1944	420190.02	3734419.28	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.91E-10	1.78E-09	0.00E+00	2.17E-09	2.40E-10	8.19E-10	0.00E+00	1.06E-09
1945	420187.51	3734410.23	2.83E-09	1.30E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	0.00E+00	2.16E-09	2.38E-10	8.14E-10	0.00E+00	1.05E-09
1946	420414.12	3734793.41	5.18E-09	2.37E-08	5.18E-11	2.89E-08	7.10E-10	3.24E-09	0.00E+00	3.95E-09	4.36E-10	1.49E-09	0.00E+00	1.92E-09

1947	420422.46	3734798.25	5.30E-09	2.42E-08	5.30E-11	2.96E-08	7.26E-10	3.31E-09	0.00E+00	4.04E-09	4.46E-10	1.52E-09	0.00E+00	1.97E-09
1948	420430.81	3734803.09	5.42E-09	2.48E-08	5.41E-11	3.02E-08	7.42E-10	3.39E-09	0.00E+00	4.13E-09	4.56E-10	1.56E-09	0.00E+00	2.01E-09
1949	420439.15	3734807.93	5.53E-09	2.53E-08	5.53E-11	3.09E-08	7.58E-10	3.46E-09	0.00E+00	4.22E-09	4.65E-10	1.59E-09	0.00E+00	2.05E-09
1950	420447.49	3734812.77	5.64E-09	2.58E-08	5.64E-11	3.15E-08	7.73E-10	3.53E-09	0.00E+00	4.30E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
1951	420367.26	3734801.3	4.11E-09	1.88E-08	4.11E-11	2.29E-08	5.63E-10	2.57E-09	0.00E+00	3.13E-09	3.46E-10	1.18E-09	0.00E+00	1.53E-09
1952	420360.56	3734794.62	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.56E-10	2.54E-09	0.00E+00	3.09E-09	3.41E-10	1.17E-09	0.00E+00	1.51E-09
1953	420353.87	3734787.94	4.00E-09	1.83E-08	4.00E-11	2.23E-08	5.49E-10	2.50E-09	0.00E+00	3.05E-09	3.37E-10	1.15E-09	0.00E+00	1.49E-09
1954	420313.68	3734747.88	3.62E-09	1.66E-08	3.62E-11	2.02E-08	4.97E-10	2.27E-09	0.00E+00	2.76E-09	3.05E-10	1.04E-09	0.00E+00	1.35E-09
1955	420293.59	3734727.85	3.43E-09	1.57E-08	3.42E-11	1.91E-08	4.70E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.85E-10	0.00E+00	1.27E-09
1956	420286.89	3734721.17	3.36E-09	1.54E-08	3.36E-11	1.88E-08	4.61E-10	2.10E-09	0.00E+00	2.56E-09	2.83E-10	9.66E-10	0.00E+00	1.25E-09
1957	420280.2	3734714.49	3.30E-09	1.51E-08	3.29E-11	1.84E-08	4.52E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.47E-10	0.00E+00	1.22E-09
1958	420273.5	3734707.82	3.23E-09	1.48E-08	3.23E-11	1.80E-08	4.43E-10	2.02E-09	0.00E+00	2.46E-09	2.72E-10	9.29E-10	0.00E+00	1.20E-09
1959	420266.8	3734701.14	3.17E-09	1.45E-08	3.17E-11	1.77E-08	4.34E-10	1.98E-09	0.00E+00	2.41E-09	2.67E-10	9.10E-10	0.00E+00	1.18E-09
1960	420260.11	3734694.46	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.26E-10	1.94E-09	0.00E+00	2.37E-09	2.61E-10	8.92E-10	0.00E+00	1.15E-09
1961	420253.41	3734687.78	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	0.00E+00	2.32E-09	2.56E-10	8.74E-10	0.00E+00	1.13E-09
1962	420246.71	3734681.11	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.08E-10	1.86E-09	0.00E+00	2.27E-09	2.51E-10	8.56E-10	0.00E+00	1.11E-09
1963	420240.01	3734674.43	2.92E-09	1.33E-08	2.92E-11	1.63E-08	4.00E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.38E-10	0.00E+00	1.08E-09
1964	420233.32	3734667.75	2.86E-09	1.31E-08	2.85E-11	1.59E-08	3.91E-10	1.79E-09	0.00E+00	2.18E-09	2.40E-10	8.21E-10	0.00E+00	1.06E-09
1965	420226.62	3734661.08	2.79E-09	1.28E-08	2.79E-11	1.56E-08	3.83E-10	1.75E-09	0.00E+00	2.13E-09	2.35E-10	8.03E-10	0.00E+00	1.04E-09
1966	420219.92	3734654.4	2.73E-09	1.25E-08	2.73E-11	1.52E-08	3.74E-10	1.71E-09	0.00E+00	2.08E-09	2.30E-10	7.85E-10	0.00E+00	1.01E-09
1967	420200.59	3734602.16	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.58E-10	0.00E+00	9.79E-10
1968	420198.06	3734593.04	2.63E-09	1.20E-08	2.62E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.55E-10	0.00E+00	9.75E-10
1969	420195.54	3734583.93	2.62E-09	1.20E-08	2.61E-11	1.46E-08	3.59E-10	1.64E-09	0.00E+00	1.99E-09	2.20E-10	7.51E-10	0.00E+00	9.72E-10
1970	420193.01	3734574.82	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.48E-10	0.00E+00	9.67E-10
1971	420190.48	3734565.7	2.59E-09	1.18E-08	2.59E-11	1.45E-08	3.55E-10	1.62E-09	0.00E+00	1.97E-09	2.18E-10	7.44E-10	0.00E+00	9.62E-10
1972	420182.9	3734538.36	2.55E-09	1.17E-08	2.55E-11	1.43E-08	3.50E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.34E-10	0.00E+00	9.49E-10
1973	420180.38	3734529.25	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.31E-10	0.00E+00	9.45E-10
1974	420177.85	3734520.14	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	0.00E+00	1.93E-09	2.13E-10	7.27E-10	0.00E+00	9.40E-10
1975	420175.32	3734511.02	2.52E-09	1.15E-08	2.52E-11	1.41E-08	3.45E-10	1.57E-09	0.00E+00	1.92E-09	2.12E-10	7.24E-10	0.00E+00	9.36E-10
1976	420172.79	3734501.91	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.20E-10	0.00E+00	9.31E-10
1977	420170.27	3734492.8	2.50E-09	1.14E-08	2.49E-11	1.39E-08	3.42E-10	1.56E-09	0.00E+00	1.90E-09	2.10E-10	7.17E-10	0.00E+00	9.27E-10
1978	420167.74	3734483.68	2.48E-09	1.14E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.14E-10	0.00E+00	9.23E-10
1979	420165.21	3734474.57	2.47E-09	1.13E-08	2.47E-11	1.38E-08	3.39E-10	1.55E-09	0.00E+00	1.88E-09	2.08E-10	7.10E-10	0.00E+00	9.18E-10
1980	420155.11	3734438.12	2.43E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.52E-09	0.00E+00	1.85E-09	2.04E-10	6.97E-10	0.00E+00	9.01E-10
1981	420152.58	3734429	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.31E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.93E-10	0.00E+00	8.96E-10
1982	420150.05	3734419.89	2.40E-09	1.10E-08	2.40E-11	1.34E-08	3.29E-10	1.50E-09	0.00E+00	1.83E-09	2.02E-10	6.90E-10	0.00E+00	8.92E-10
1983	420147.52	3734410.78	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.27E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.86E-10	0.00E+00	8.87E-10
1984	420394.05	3734828.01	4.28E-09	1.95E-08	4.27E-11	2.39E-08	5.86E-10	2.67E-09	0.00E+00	3.26E-09	3.60E-10	1.23E-09	0.00E+00	1.59E-09
1985	420402.39	3734832.85	4.36E-09	1.99E-08	4.36E-11	2.43E-08	5.98E-10	2.73E-09	0.00E+00	3.32E-09	3.67E-10	1.25E-09	0.00E+00	1.62E-09
1986	420410.73	3734837.69	4.44E-09	2.03E-08	4.44E-11	2.48E-08	6.09E-10	2.78E-09	0.00E+00	3.39E-09	3.74E-10	1.28E-09	0.00E+00	1.65E-09
1987	420419.08	3734842.53	4.52E-09	2.07E-08	4.52E-11	2.53E-08	6.20E-10	2.83E-09	0.00E+00	3.45E-09	3.81E-10	1.30E-09	0.00E+00	1.68E-09
1988	420427.42	3734847.37	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
1989	420353.77	3734842.46	3.49E-09	1.60E-08	3.49E-11	1.95E-08	4.79E-10	2.18E-09	0.00E+00	2.66E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
1990	420347.04	3734835.75	3.46E-09	1.58E-08	3.46E-11	1.93E-08	4.74E-10	2.16E-09	0.00E+00	2.64E-09	2.91E-10	9.94E-10	0.00E+00	1.29E-09
1991	420340.31	3734829.03	3.42E-09	1.56E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.83E-10	0.00E+00	1.27E-09
1992	420333.57	3734822.32	3.38E-09	1.54E-08	3.38E-11	1.89E-08	4.63E-10	2.11E-09	0.00E+00	2.58E-09	2.84E-10	9.71E-10	0.00E+00	1.25E-09
1993	420326.84	3734815.61	3.34E-09	1.53E-08	3.34E-11	1.86E-08	4.57E-10	2.09E-09	0.00E+00	2.54E-09	2.81E-10	9.59E-10	0.00E+00	1.24E-09
1994	420320.1	3734808.89	3.30E-09	1.51E-08	3.29E-11	1.84E-08	4.52E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.47E-10	0.00E+00	1.22E-09
1995	420313.37	3734802.18	3.25E-09	1.49E-08	3.25E-11	1.81E-08	4.46E-10	2.03E-09	0.00E+00	2.48E-09	2.74E-10	9.34E-10	0.00E+00	1.21E-09
1996	420306.63	3734795.46	3.20E-09	1.46E-08	3.20E-11	1.79E-08	4.39E-10	2.00E-09	0.00E+00	2.44E-09	2.69E-10	9.20E-10	0.00E+00	1.19E-09
1997	420299.9	3734788.75	3.15E-09	1.44E-08	3.14E-11	1.76E-08	4.31E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.04E-10	0.00E+00	1.17E-09
1998	420293.17	3734782.04	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.24E-10	1.94E-09	0.00E+00	2.36E-09	2.61E-10	8.90E-10	0.00E+00	1.15E-09
1999	420286.43	3734775.32	3.05E-09	1.39E-08	3.04E-11	1.70E-08	4.18E-10	1.90E-09	0.00E+00	2.32E-09	2.56E-10	8.75E-10	0.00E+00	1.13E-09
2000	420266.23	3734755.18	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.98E-10	1.82E-09	0.00E+00	2.21E-09	2.44E-10	8.34E-10	0.00E+00	1.08E-09
2001	420239.29	3734728.32	2.70E-09	1.24E-08	2.70E-11	1.51E-08	3.71E-10	1.69E-09	0.00E+00	2.06E-09	2.27E-10	7.77E-10	0.00E+00	1.00E-09
2002	420232.56	3734721.61	2.66E-09	1.21E-08	2.65E-11	1.48E-08	3.64E-10	1.66E-09	0.00E+00	2.02E-09	2.23E-10	7.63E-10	0.00E+00	9.86E-10
2003	420225.83	3734714.9	2.61E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.99E-09	2.19E-10	7.49E-10	0.00E+00	9.68E-10
2004	420219.09	3734708.18	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.35E-10	0.00E+00	9.50E-10
2005	420198.89	3734688.04	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.31E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.93E-10	0.00E+00	8.96E-10
2006	420192.16	3734681.33	2.37E-09	1.08E-08	2.36E-11	1.32E-08	3.24E-10	1.48E-09	0.00E+00	1.80E-09	1.99E-10	6.80E-10	0.00E+00	8.79E-10
2007	420185.42	3734674.61	2.32E-09	1.06E-08	2.32E-11	1.29E-08	3.18E-10	1.45E-09	0.00E+00	1.77E-09	1.95E-10	6.66E-10	0.00E+00	8.61E-10
2008	420176.15	3734658.73	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.52E-10	0.00E+00	8.43E-10
2009	420173.61	3734649.57	2.26E-09	1.04E-08	2.26E-11	1.26E-08	3.10E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.51E-10	0.00E+00	8.41E-10
2010	420171.06	3734640.41	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.49E-10	0.00E+00	8.40E-10
2011	420168.52	3734631.24	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.48E-10	0.00E+00	8.38E-10
2012	420165.98	3734622.08	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.08E-10	1.41E-09	0.00E+00	1.71E-09	1.89E-10	6.46E-10	0.00E+00	8.35E-10
2013	420163.44	3734612.92	2.24E-09	1.02E-08	2.24E-11	1.25E-08	3.07E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.44E-10	0.00E+00	8.32E-10
2014	420160.9	3734603.75	2.23E-09	1.02E-08	2.23E-11	1.25E-08	3.06E-10	1.40E-09	0.00E+00	1.70E-09	1.88E-10	6.41E-10	0.00E+00	8.29E-10
2015	420158.36	3734594.59	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.39E-10	0.00E+00	8.26E-10
2016	420155.82	3734585.43	2.21E-09	1.01E-08	2.21E-11	1.24E-08	3.04E-10	1.38E-09	0.00E+00	1.69E-09	1.86E-10	6.36E-10	0.00E+00	8.23E-10
2017	420153.28	3734576.26	2.21E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.86E-10	6.34E-10	0.00E+00	8.19E-10
2018	420150.74	3734567.1	2.20E-09	1.00E-08	2.19E-11	1.23E-08	3.01E-10	1.37E-09	0.00E+00	1.67E-09	1.85E-10	6.31E-10	0.00E+00	8.16E-10
2019	420140.57	3734530.44	2.16E-09	9.85E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	0.00E+00	1.64E-09	1.81E-10	6.19E-10	0.00E+00	8.01E-10
2020	420138.03	3734521.28	2.14E-09	9.81E-09	2.14E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.16E-10	0.00E+00	7.97E-10
2021	420135.49	3734512.12	2.14E-09	9.76E-09	2.13E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.14E-10	0.00E+00	7.93E-10

2022	420132.95	3734502.95	2.13E-09	9.72E-09	2.13E-11	1.19E-08	2.91E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.11E-10	0.00E+00	7.90E-10
2023	420130.41	3734493.79	2.12E-09	9.67E-09	2.11E-11	1.18E-08	2.90E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.08E-10	0.00E+00	7.86E-10
2024	420127.87	3734484.63	2.10E-09	9.62E-09	2.10E-11	1.17E-08	2.89E-10	1.32E-09	0.00E+00	1.60E-09	1.77E-10	6.05E-10	0.00E+00	7.82E-10
2025	420125.33	3734475.46	2.10E-09	9.60E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.03E-10	0.00E+00	7.80E-10
2026	420115.16	3734438.81	2.07E-09	9.45E-09	2.07E-11	1.15E-08	2.83E-10	1.29E-09	0.00E+00	1.58E-09	1.74E-10	5.94E-10	0.00E+00	7.68E-10
2027	420112.62	3734429.65	2.06E-09	9.41E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.92E-10	0.00E+00	7.65E-10
2028	420110.08	3734420.48	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
2029	420107.54	3734411.32	2.04E-09	9.33E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.55E-09	1.72E-10	5.86E-10	0.00E+00	7.58E-10
2030	420373.98	3734862.6	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.23E-09	0.00E+00	2.71E-09	3.00E-10	1.02E-09	0.00E+00	1.32E-09
2031	420382.32	3734867.44	3.62E-09	1.65E-08	3.62E-11	2.02E-08	4.96E-10	2.26E-09	0.00E+00	2.76E-09	3.04E-10	1.04E-09	0.00E+00	1.34E-09
2032	420390.66	3734872.28	3.67E-09	1.68E-08	3.67E-11	2.05E-08	5.03E-10	2.29E-09	0.00E+00	2.80E-09	3.09E-10	1.05E-09	0.00E+00	1.36E-09
2033	420399	3734877.12	3.73E-09	1.70E-08	3.72E-11	2.08E-08	5.11E-10	2.33E-09	0.00E+00	2.84E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
2034	420407.35	3734881.96	3.79E-09	1.73E-08	3.78E-11	2.11E-08	5.19E-10	2.37E-09	0.00E+00	2.89E-09	3.19E-10	1.09E-09	0.00E+00	1.41E-09
2035	420333.6	3734876.96	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.86E-09	0.00E+00	2.26E-09	2.50E-10	8.53E-10	0.00E+00	1.10E-09
2036	420326.84	3734870.22	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.05E-10	1.85E-09	0.00E+00	2.25E-09	2.48E-10	8.48E-10	0.00E+00	1.10E-09
2037	420320.07	3734863.47	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	0.00E+00	2.23E-09	2.47E-10	8.42E-10	0.00E+00	1.09E-09
2038	420313.31	3734856.73	2.91E-09	1.33E-08	2.91E-11	1.62E-08	3.98E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.35E-10	0.00E+00	1.08E-09
2039	420306.54	3734849.98	2.88E-09	1.32E-08	2.87E-11	1.61E-08	3.94E-10	1.80E-09	0.00E+00	2.19E-09	2.42E-10	8.26E-10	0.00E+00	1.07E-09
2040	420299.77	3734843.23	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.90E-10	1.78E-09	0.00E+00	2.17E-09	2.39E-10	8.17E-10	0.00E+00	1.06E-09
2041	420293.01	3734836.49	2.81E-09	1.28E-08	2.81E-11	1.57E-08	3.85E-10	1.76E-09	0.00E+00	2.14E-09	2.36E-10	8.07E-10	0.00E+00	1.04E-09
2042	420286.24	3734829.74	2.77E-09	1.27E-08	2.77E-11	1.55E-08	3.80E-10	1.73E-09	0.00E+00	2.11E-09	2.33E-10	7.96E-10	0.00E+00	1.03E-09
2043	420279.47	3734823	2.73E-09	1.25E-08	2.72E-11	1.52E-08	3.74E-10	1.70E-09	0.00E+00	2.08E-09	2.29E-10	7.83E-10	0.00E+00	1.01E-09
2044	420272.71	3734816.25	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.72E-10	0.00E+00	9.97E-10
2045	420265.94	3734809.5	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	0.00E+00	2.02E-09	2.23E-10	7.62E-10	0.00E+00	9.85E-10
2046	420245.64	3734789.27	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.30E-10	0.00E+00	9.43E-10
2047	420238.88	3734782.52	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	0.00E+00	1.91E-09	2.10E-10	7.18E-10	0.00E+00	9.29E-10
2048	420232.11	3734775.77	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.87E-09	2.07E-10	7.07E-10	0.00E+00	9.13E-10
2049	420225.34	3734769.03	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.31E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.95E-10	0.00E+00	8.98E-10
2050	420218.58	3734762.28	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	0.00E+00	1.81E-09	2.00E-10	6.83E-10	0.00E+00	8.83E-10
2051	420211.81	3734755.53	2.34E-09	1.07E-08	2.34E-11	1.30E-08	3.20E-10	1.46E-09	0.00E+00	1.78E-09	1.97E-10	6.72E-10	0.00E+00	8.68E-10
2052	420184.75	3734728.55	2.18E-09	9.96E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.26E-10	0.00E+00	8.09E-10
2053	420177.98	3734721.8	2.14E-09	9.78E-09	2.14E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.15E-10	0.00E+00	7.95E-10
2054	420171.21	3734715.06	2.10E-09	9.61E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.04E-10	0.00E+00	7.81E-10
2055	420164.45	3734708.31	2.06E-09	9.44E-09	2.06E-11	1.15E-08	2.83E-10	1.29E-09	0.00E+00	1.57E-09	1.74E-10	5.93E-10	0.00E+00	7.67E-10
2056	420157.68	3734701.57	2.03E-09	9.27E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.83E-10	0.00E+00	7.53E-10
2057	420150.91	3734694.82	1.99E-09	9.10E-09	1.99E-11	1.11E-08	2.73E-10	1.24E-09	0.00E+00	1.52E-09	1.67E-10	5.72E-10	0.00E+00	7.40E-10
2058	420141.6	3734678.87	1.95E-09	8.93E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.61E-10	0.00E+00	7.25E-10
2059	420139.04	3734669.66	1.95E-09	8.92E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.60E-10	0.00E+00	7.24E-10
2060	420136.49	3734660.45	1.95E-09	8.90E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.23E-10
2061	420133.94	3734651.24	1.94E-09	8.89E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.22E-10
2062	420131.38	3734642.04	1.94E-09	8.87E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.57E-10	0.00E+00	7.20E-10
2063	420128.83	3734632.83	1.93E-09	8.84E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.63E-10	5.56E-10	0.00E+00	7.18E-10
2064	420126.28	3734623.62	1.93E-09	8.81E-09	1.93E-11	1.08E-08	2.64E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.54E-10	0.00E+00	7.16E-10
2065	420123.72	3734614.41	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.62E-10	5.52E-10	0.00E+00	7.13E-10
2066	420121.17	3734605.21	1.91E-09	8.75E-09	1.91E-11	1.07E-08	2.62E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.50E-10	0.00E+00	7.11E-10
2067	420118.62	3734596	1.91E-09	8.72E-09	1.91E-11	1.06E-08	2.61E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.48E-10	0.00E+00	7.08E-10
2068	420116.06	3734586.79	1.90E-09	8.69E-09	1.90E-11	1.06E-08	2.60E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.46E-10	0.00E+00	7.06E-10
2069	420113.51	3734577.59	1.89E-09	8.65E-09	1.89E-11	1.06E-08	2.59E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.44E-10	0.00E+00	7.03E-10
2070	420110.96	3734568.38	1.88E-09	8.61E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.58E-10	5.41E-10	0.00E+00	7.00E-10
2071	420100.75	3734531.55	1.82E-09	8.34E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.24E-10	0.00E+00	6.77E-10
2072	420098.19	3734522.34	1.79E-09	8.20E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.15E-10	0.00E+00	6.66E-10
2073	420095.64	3734513.13	1.78E-09	8.14E-09	1.78E-11	9.94E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.12E-10	0.00E+00	6.61E-10
2074	420093.09	3734503.93	1.77E-09	8.11E-09	1.77E-11	9.90E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.10E-10	0.00E+00	6.59E-10
2075	420090.53	3734494.72	1.77E-09	8.08E-09	1.77E-11	9.87E-09	2.42E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.08E-10	0.00E+00	6.57E-10
2076	420087.98	3734485.51	1.76E-09	8.06E-09	1.76E-11	9.84E-09	2.42E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.07E-10	0.00E+00	6.55E-10
2077	420085.43	3734476.31	1.76E-09	8.04E-09	1.76E-11	9.82E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.05E-10	0.00E+00	6.53E-10
2078	420082.88	3734467.1	1.76E-09	8.02E-09	1.75E-11	9.80E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.04E-10	0.00E+00	6.52E-10
2079	420075.22	3734439.48	1.76E-09	8.07E-09	1.76E-11	9.85E-09	2.42E-10	1.10E-09	0.00E+00	1.35E-09	1.48E-10	5.07E-10	0.00E+00	6.56E-10
2080	420072.66	3734430.27	1.77E-09	8.11E-09	1.77E-11	9.90E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.10E-10	0.00E+00	6.59E-10
2081	420070.11	3734421.06	1.77E-09	8.09E-09	1.77E-11	9.88E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.08E-10	0.00E+00	6.57E-10
2082	420067.56	3734411.85	1.76E-09	8.06E-09	1.76E-11	9.84E-09	2.42E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.06E-10	0.00E+00	6.55E-10
2083	420353.9	3734897.2	3.01E-09	1.37E-08	3.01E-11	1.68E-08	4.12E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.64E-10	0.00E+00	1.12E-09
2084	420362.25	3734902.04	3.05E-09	1.39E-08	3.05E-11	1.70E-08	4.18E-10	1.91E-09	0.00E+00	2.32E-09	2.56E-10	8.76E-10	0.00E+00	1.13E-09
2085	420370.59	3734906.88	3.09E-09	1.41E-08	3.09E-11	1.73E-08	4.24E-10	1.93E-09	0.00E+00	2.36E-09	2.60E-10	8.88E-10	0.00E+00	1.15E-09
2086	420378.93	3734911.72	3.13E-09	1.43E-08	3.13E-11	1.75E-08	4.30E-10	1.96E-09	0.00E+00	2.39E-09	2.64E-10	9.01E-10	0.00E+00	1.16E-09
2087	420387.27	3734916.56	3.18E-09	1.45E-08	3.17E-11	1.77E-08	4.35E-10	1.99E-09	0.00E+00	2.42E-09	2.67E-10	9.13E-10	0.00E+00	1.18E-09
2088	420313.45	3734911.48	2.57E-09	1.18E-08	2.57E-11	1.44E-08	3.53E-10	1.61E-09	0.00E+00	1.96E-09	2.17E-10	7.40E-10	0.00E+00	9.56E-10
2089	420306.65	3734904.7	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.50E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.35E-10	0.00E+00	9.50E-10
2090	420299.86	3734897.93	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	0.00E+00	1.93E-09	2.14E-10	7.29E-10	0.00E+00	9.43E-10
2091	420293.06	3734891.16	2.52E-09	1.15E-08	2.52E-11	1.40E-08	3.45E-10	1.57E-09	0.00E+00	1.92E-09	2.12E-10	7.23E-10	0.00E+00	9.35E-10
2092	420286.27	3734884.38	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.42E-10	1.56E-09	0.00E+00	1.90E-09	2.10E-10	7.17E-10	0.00E+00	9.27E-10
2093	420279.47	3734877.61	2.47E-09	1.13E-08	2.47E-11	1.38E-08	3.39E-10	1.54E-09	0.00E+00	1.88E-09	2.08E-10	7.10E-10	0.00E+00	9.17E-10
2094	420272.68	3734870.83	2.44E-09	1.12E-08	2.44E-11	1.36E-08	3.35E-10	1.53E-09	0.00E+00	1.86E-09	2.06E-10	7.02E-10	0.00E+00	9.08E-10
2095	420265.88	3734864.06	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.31E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.95E-10	0.00E+00	8.98E-10
2096	420259.09	3734857.28	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.27E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.86E-10	0.00E+00	8.87E-10

2097	420252.3	3734850.51	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.23E-10	1.47E-09	0.00E+00	1.80E-09	1.98E-10	6.77E-10	0.00E+00	8.76E-10
2098	420231.91	3734830.19	2.27E-09	1.04E-08	2.26E-11	1.26E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.51E-10	0.00E+00	8.42E-10
2099	420225.12	3734823.41	2.23E-09	1.02E-08	2.23E-11	1.25E-08	3.06E-10	1.40E-09	0.00E+00	1.70E-09	1.88E-10	6.42E-10	0.00E+00	8.30E-10
2100	420218.32	3734816.64	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.85E-10	6.33E-10	0.00E+00	8.18E-10
2101	420211.53	3734809.86	2.17E-09	9.92E-09	2.17E-11	1.21E-08	2.97E-10	1.36E-09	0.00E+00	1.65E-09	1.83E-10	6.23E-10	0.00E+00	8.06E-10
2102	420204.73	3734803.09	2.14E-09	9.77E-09	2.14E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.14E-10	0.00E+00	7.94E-10
2103	420197.94	3734796.32	2.10E-09	9.62E-09	2.10E-11	1.17E-08	2.89E-10	1.32E-09	0.00E+00	1.60E-09	1.77E-10	6.05E-10	0.00E+00	7.82E-10
2104	420191.14	3734789.54	2.07E-09	9.47E-09	2.07E-11	1.16E-08	2.84E-10	1.30E-09	0.00E+00	1.58E-09	1.74E-10	5.95E-10	0.00E+00	7.70E-10
2105	420184.35	3734782.77	2.04E-09	9.32E-09	2.04E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.72E-10	5.86E-10	0.00E+00	7.57E-10
2106	420177.56	3734775.99	2.01E-09	9.18E-09	2.01E-11	1.12E-08	2.75E-10	1.25E-09	0.00E+00	1.53E-09	1.69E-10	5.77E-10	0.00E+00	7.45E-10
2107	420170.76	3734769.22	1.97E-09	9.02E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.66E-10	5.67E-10	0.00E+00	7.33E-10
2108	420163.97	3734762.44	1.94E-09	8.88E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.21E-10
2109	420129.99	3734728.57	1.79E-09	8.18E-09	1.79E-11	9.98E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.14E-10	0.00E+00	6.64E-10
2110	420123.2	3734721.8	1.76E-09	8.04E-09	1.76E-11	9.82E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.05E-10	0.00E+00	6.53E-10
2111	420116.4	3734715.02	1.73E-09	7.91E-09	1.73E-11	9.66E-09	2.37E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.97E-10	0.00E+00	6.43E-10
2112	420107.05	3734699	1.69E-09	7.74E-09	1.69E-11	9.45E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.87E-10	0.00E+00	6.29E-10
2113	420104.48	3734689.76	1.70E-09	7.76E-09	1.70E-11	9.47E-09	2.33E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.88E-10	0.00E+00	6.30E-10
2114	420101.92	3734680.51	1.69E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.87E-10	0.00E+00	6.29E-10
2115	420099.35	3734671.27	1.69E-09	7.73E-09	1.69E-11	9.44E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.86E-10	0.00E+00	6.28E-10
2116	420096.79	3734662.02	1.69E-09	7.72E-09	1.69E-11	9.42E-09	2.31E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.85E-10	0.00E+00	6.27E-10
2117	420094.23	3734652.77	1.68E-09	7.70E-09	1.68E-11	9.40E-09	2.31E-10	1.05E-09	0.00E+00	1.28E-09	1.42E-10	4.84E-10	0.00E+00	6.26E-10
2118	420091.66	3734643.53	1.68E-09	7.68E-09	1.68E-11	9.38E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.83E-10	0.00E+00	6.24E-10
2119	420089.1	3734634.28	1.68E-09	7.66E-09	1.68E-11	9.36E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.82E-10	0.00E+00	6.23E-10
2120	420086.54	3734625.04	1.67E-09	7.64E-09	1.67E-11	9.32E-09	2.29E-10	1.04E-09	0.00E+00	1.27E-09	1.41E-10	4.80E-10	0.00E+00	6.20E-10
2121	420083.97	3734615.79	1.66E-09	7.61E-09	1.66E-11	9.29E-09	2.28E-10	1.04E-09	0.00E+00	1.27E-09	1.40E-10	4.78E-10	0.00E+00	6.18E-10
2122	420081.41	3734606.55	1.66E-09	7.58E-09	1.66E-11	9.26E-09	2.27E-10	1.04E-09	0.00E+00	1.26E-09	1.40E-10	4.77E-10	0.00E+00	6.16E-10
2123	420078.84	3734597.3	1.65E-09	7.56E-09	1.65E-11	9.23E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
2124	420076.28	3734588.05	1.65E-09	7.53E-09	1.65E-11	9.19E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.73E-10	0.00E+00	6.12E-10
2125	420073.72	3734578.81	1.64E-09	7.50E-09	1.64E-11	9.16E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.10E-10
2126	420071.15	3734569.56	1.63E-09	7.47E-09	1.63E-11	9.12E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.37E-10	4.69E-10	0.00E+00	6.07E-10
2127	420060.9	3734532.58	1.57E-09	7.18E-09	1.57E-11	8.76E-09	2.15E-10	9.81E-10	0.00E+00	1.20E-09	1.32E-10	4.51E-10	0.00E+00	5.83E-10
2128	420058.34	3734523.33	1.55E-09	7.09E-09	1.55E-11	8.66E-09	2.13E-10	9.69E-10	0.00E+00	1.18E-09	1.30E-10	4.46E-10	0.00E+00	5.76E-10
2129	420055.77	3734514.09	1.54E-09	7.04E-09	1.54E-11	8.59E-09	2.11E-10	9.62E-10	0.00E+00	1.17E-09	1.29E-10	4.42E-10	0.00E+00	5.72E-10
2130	420053.21	3734504.84	1.53E-09	7.00E-09	1.53E-11	8.55E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
2131	420050.64	3734495.6	1.52E-09	6.97E-09	1.52E-11	8.51E-09	2.09E-10	9.53E-10	0.00E+00	1.16E-09	1.28E-10	4.38E-10	0.00E+00	5.66E-10
2132	420048.08	3734486.35	1.52E-09	6.95E-09	1.52E-11	8.48E-09	2.08E-10	9.50E-10	0.00E+00	1.16E-09	1.28E-10	4.37E-10	0.00E+00	5.64E-10
2133	420045.52	3734477.1	1.52E-09	6.94E-09	1.52E-11	8.48E-09	2.08E-10	9.49E-10	0.00E+00	1.16E-09	1.28E-10	4.36E-10	0.00E+00	5.64E-10
2134	420042.95	3734467.86	1.52E-09	6.94E-09	1.52E-11	8.47E-09	2.08E-10	9.48E-10	0.00E+00	1.16E-09	1.28E-10	4.36E-10	0.00E+00	5.64E-10
2135	420035.26	3734440.12	1.53E-09	6.98E-09	1.53E-11	8.52E-09	2.09E-10	9.55E-10	0.00E+00	1.16E-09	1.28E-10	4.39E-10	0.00E+00	5.67E-10
2136	420032.7	3734430.88	1.53E-09	7.01E-09	1.53E-11	8.55E-09	2.10E-10	9.58E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
2137	420030.13	3734421.63	1.54E-09	7.03E-09	1.54E-11	8.58E-09	2.11E-10	9.61E-10	0.00E+00	1.17E-09	1.29E-10	4.42E-10	0.00E+00	5.71E-10
2138	420027.57	3734412.38	1.54E-09	7.04E-09	1.54E-11	8.60E-09	2.11E-10	9.63E-10	0.00E+00	1.17E-09	1.30E-10	4.43E-10	0.00E+00	5.72E-10
2139	420306.94	3734959.6	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.50E-10	0.00E+00	8.40E-10
2140	420300.12	3734952.8	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.89E-10	6.47E-10	0.00E+00	8.36E-10
2141	420293.3	3734946	2.24E-09	1.02E-08	2.24E-11	1.25E-08	3.07E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.44E-10	0.00E+00	8.32E-10
2142	420286.48	3734939.2	2.23E-09	1.02E-08	2.23E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.40E-10	0.00E+00	8.28E-10
2143	420279.66	3734932.4	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	0.00E+00	1.69E-09	1.86E-10	6.35E-10	0.00E+00	8.21E-10
2144	420272.84	3734925.6	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.30E-10	0.00E+00	8.14E-10
2145	420266.02	3734918.81	2.17E-09	9.94E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.25E-10	0.00E+00	8.07E-10
2146	420259.2	3734912.01	2.16E-09	9.85E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	0.00E+00	1.64E-09	1.81E-10	6.19E-10	0.00E+00	8.01E-10
2147	420252.38	3734905.21	2.14E-09	9.77E-09	2.14E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.14E-10	0.00E+00	7.94E-10
2148	420197.82	3734850.81	1.94E-09	8.89E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.22E-10
2149	420191	3734844.01	1.92E-09	8.79E-09	1.92E-11	1.07E-08	2.64E-10	1.20E-09	0.00E+00	1.47E-09	1.62E-10	5.52E-10	0.00E+00	7.14E-10
2150	420184.18	3734837.21	1.90E-09	8.69E-09	1.90E-11	1.06E-08	2.60E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.46E-10	0.00E+00	7.06E-10
2151	420177.36	3734830.41	1.87E-09	8.56E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.38E-10	0.00E+00	6.96E-10
2152	420170.55	3734823.62	1.85E-09	8.44E-09	1.85E-11	1.03E-08	2.53E-10	1.15E-09	0.00E+00	1.41E-09	1.55E-10	5.30E-10	0.00E+00	6.86E-10
2153	420163.73	3734816.82	1.82E-09	8.32E-09	1.82E-11	1.02E-08	2.49E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.23E-10	0.00E+00	6.76E-10
2154	420156.91	3734810.02	1.79E-09	8.20E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.15E-10	0.00E+00	6.66E-10
2155	420150.09	3734803.22	1.77E-09	8.08E-09	1.77E-11	9.86E-09	2.42E-10	1.10E-09	0.00E+00	1.35E-09	1.49E-10	5.08E-10	0.00E+00	6.56E-10
2156	420143.27	3734796.42	1.74E-09	7.96E-09	1.74E-11	9.72E-09	2.39E-10	1.09E-09	0.00E+00	1.33E-09	1.46E-10	5.00E-10	0.00E+00	6.47E-10
2157	420136.45	3734789.62	1.72E-09	7.84E-09	1.71E-11	9.57E-09	2.35E-10	1.07E-09	0.00E+00	1.31E-09	1.44E-10	4.93E-10	0.00E+00	6.37E-10
2158	420115.99	3734769.22	1.64E-09	7.49E-09	1.64E-11	9.15E-09	2.25E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.71E-10	0.00E+00	6.09E-10
2159	420109.17	3734762.42	1.61E-09	7.38E-09	1.61E-11	9.01E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.36E-10	4.64E-10	0.00E+00	6.00E-10
2160	420102.35	3734755.62	1.59E-09	7.27E-09	1.59E-11	8.87E-09	2.18E-10	9.94E-10	0.00E+00	1.21E-09	1.34E-10	4.57E-10	0.00E+00	5.91E-10
2161	420072.5	3734719.15	1.48E-09	6.75E-09	1.48E-11	8.24E-09	2.02E-10	9.23E-10	0.00E+00	1.13E-09	1.24E-10	4.24E-10	0.00E+00	5.48E-10
2162	420069.92	3734709.87	1.47E-09	6.73E-09	1.47E-11	8.21E-09	2.02E-10	9.20E-10	0.00E+00	1.12E-09	1.24E-10	4.23E-10	0.00E+00	5.46E-10
2163	420067.35	3734700.59	1.46E-09	6.69E-09	1.46E-11	8.17E-09	2.01E-10	9.15E-10	0.00E+00	1.12E-09	1.23E-10	4.21E-10	0.00E+00	5.44E-10
2164	420064.78	3734691.31	1.47E-09	6.70E-09	1.47E-11	8.19E-09	2.01E-10	9.17E-10	0.00E+00	1.12E-09	1.23E-10	4.21E-10	0.00E+00	5.45E-10
2165	420062.2	3734682.03	1.47E-09	6.72E-09	1.47E-11	8.20E-09	2.01E-10	9.19E-10	0.00E+00	1.12E-09	1.24E-10	4.22E-10	0.00E+00	5.46E-10
2166	420059.63	3734672.75	1.47E-09	6.73E-09	1.47E-11	8.22E-09	2.02E-10	9.21E-10	0.00E+00	1.12E-09	1.24E-10	4.23E-10	0.00E+00	5.47E-10
2167	420057.06	3734663.47	1.48E-09	6.76E-09	1.48E-11	8.25E-09	2.03E-10	9.24E-10	0.00E+00	1.13E-09	1.24E-10	4.25E-10	0.00E+00	5.49E-10
2168	420054.49	3734654.19	1.47E-09	6.74E-09	1.47E-11	8.23E-09	2.02E-10	9.22E-10	0.00E+00	1.12E-09	1.24E-10	4.24E-10	0.00E+00	5.48E-10
2169	420051.91	3734644.91	1.47E-09	6.73E-09	1.47E-11	8.21E-09	2.02E-10	9.20E-10	0.00E+00	1.12E-09	1.24E-10	4.23E-10	0.00E+00	5.46E-10
2170	420049.34	3734635.63	1.47E-09	6.71E-09	1.47E-11	8.19E-09	2.01E-10	9.17E-10	0.00E+00	1.12E-09	1.23E-10	4.22E-10	0.00E+00	5.45E-10
2171	420046.77	3734626.35	1.46E-09	6.69E-09	1.46E-11	8.16E-09	2.00E-10	9.14E-10	0.00E+00	1.11E-09	1.23E-10	4.20E-10	0.00E+00	5.43E-10

2172	420044.19	3734617.07	1.46E-09	6.67E-09	1.46E-11	8.14E-09	2.00E-10	9.12E-10	0.00E+00	1.11E-09	1.23E-10	4.19E-10	0.00E+00	5.42E-10
2173	420041.62	3734607.79	1.45E-09	6.64E-09	1.45E-11	8.11E-09	1.99E-10	9.08E-10	0.00E+00	1.11E-09	1.22E-10	4.17E-10	0.00E+00	5.40E-10
2174	420039.05	3734598.51	1.45E-09	6.62E-09	1.45E-11	8.08E-09	1.98E-10	9.05E-10	0.00E+00	1.10E-09	1.22E-10	4.16E-10	0.00E+00	5.38E-10
2175	420036.47	3734589.23	1.44E-09	6.59E-09	1.44E-11	8.05E-09	1.98E-10	9.02E-10	0.00E+00	1.10E-09	1.21E-10	4.14E-10	0.00E+00	5.36E-10
2176	420033.9	3734579.95	1.44E-09	6.57E-09	1.44E-11	8.02E-09	1.97E-10	8.98E-10	0.00E+00	1.10E-09	1.21E-10	4.13E-10	0.00E+00	5.34E-10
2177	420031.33	3734570.67	1.43E-09	6.54E-09	1.43E-11	7.99E-09	1.96E-10	8.95E-10	0.00E+00	1.09E-09	1.20E-10	4.11E-10	0.00E+00	5.32E-10
2178	420021.03	3734533.55	1.38E-09	6.33E-09	1.38E-11	7.72E-09	1.90E-10	8.65E-10	0.00E+00	1.05E-09	1.16E-10	3.98E-10	0.00E+00	5.14E-10
2179	420018.46	3734524.27	1.37E-09	6.26E-09	1.37E-11	7.64E-09	1.88E-10	8.56E-10	0.00E+00	1.04E-09	1.15E-10	3.93E-10	0.00E+00	5.09E-10
2180	420015.89	3734514.99	1.36E-09	6.21E-09	1.36E-11	7.59E-09	1.86E-10	8.50E-10	0.00E+00	1.04E-09	1.14E-10	3.91E-10	0.00E+00	5.05E-10
2181	420013.31	3734505.71	1.35E-09	6.19E-09	1.35E-11	7.56E-09	1.86E-10	8.46E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
2182	420010.74	3734496.43	1.35E-09	6.17E-09	1.35E-11	7.53E-09	1.85E-10	8.43E-10	0.00E+00	1.03E-09	1.13E-10	3.88E-10	0.00E+00	5.01E-10
2183	420008.17	3734487.15	1.34E-09	6.15E-09	1.34E-11	7.51E-09	1.84E-10	8.41E-10	0.00E+00	1.03E-09	1.13E-10	3.86E-10	0.00E+00	5.00E-10
2184	420005.6	3734477.87	1.34E-09	6.14E-09	1.34E-11	7.49E-09	1.84E-10	8.39E-10	0.00E+00	1.02E-09	1.13E-10	3.86E-10	0.00E+00	4.99E-10
2185	420003.02	3734468.59	1.34E-09	6.13E-09	1.34E-11	7.48E-09	1.84E-10	8.38E-10	0.00E+00	1.02E-09	1.13E-10	3.85E-10	0.00E+00	4.98E-10
2186	419995.3	3734440.75	1.35E-09	6.19E-09	1.35E-11	7.56E-09	1.86E-10	8.47E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
2187	419992.73	3734431.47	1.36E-09	6.24E-09	1.36E-11	7.61E-09	1.87E-10	8.53E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.07E-10
2188	419990.16	3734422.19	1.36E-09	6.24E-09	1.36E-11	7.62E-09	1.87E-10	8.53E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.07E-10
2189	419987.58	3734412.91	1.36E-09	6.22E-09	1.36E-11	7.60E-09	1.87E-10	8.51E-10	0.00E+00	1.04E-09	1.14E-10	3.91E-10	0.00E+00	5.06E-10
2190	420313.76	3734966.4	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.52E-10	0.00E+00	8.43E-10
2191	420322.1	3734971.24	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.15E-10	1.44E-09	0.00E+00	1.75E-09	1.93E-10	6.60E-10	0.00E+00	8.53E-10
2192	420330.44	3734976.08	2.32E-09	1.06E-08	2.32E-11	1.30E-08	3.19E-10	1.45E-09	0.00E+00	1.77E-09	1.95E-10	6.68E-10	0.00E+00	8.63E-10
2193	420338.78	3734980.92	2.35E-09	1.07E-08	2.35E-11	1.31E-08	3.22E-10	1.47E-09	0.00E+00	1.79E-09	1.98E-10	6.75E-10	0.00E+00	8.73E-10
2194	420347.13	3734985.76	2.37E-09	1.09E-08	2.37E-11	1.33E-08	3.26E-10	1.48E-09	0.00E+00	1.81E-09	2.00E-10	6.82E-10	0.00E+00	8.82E-10
2195	420287.02	3734994.36	1.98E-09	9.04E-09	1.98E-11	1.10E-08	2.71E-10	1.24E-09	0.00E+00	1.51E-09	1.66E-10	5.68E-10	0.00E+00	7.34E-10
2196	420280.36	3734987.72	1.97E-09	9.01E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.66E-10	5.66E-10	0.00E+00	7.32E-10
2197	420273.7	3734981.07	1.96E-09	8.97E-09	1.96E-11	1.10E-08	2.69E-10	1.23E-09	0.00E+00	1.50E-09	1.65E-10	5.64E-10	0.00E+00	7.29E-10
2198	420267.04	3734974.43	1.95E-09	8.93E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.61E-10	0.00E+00	7.25E-10
2199	420260.37	3734967.79	1.94E-09	8.88E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.22E-10
2200	420253.71	3734961.15	1.93E-09	8.83E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.63E-10	5.55E-10	0.00E+00	7.18E-10
2201	420247.05	3734954.51	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.62E-10	5.52E-10	0.00E+00	7.13E-10
2202	420240.39	3734947.86	1.91E-09	8.72E-09	1.91E-11	1.06E-08	2.61E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.48E-10	0.00E+00	7.09E-10
2203	420233.73	3734941.22	1.89E-09	8.66E-09	1.89E-11	1.06E-08	2.60E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.44E-10	0.00E+00	7.03E-10
2204	420227.07	3734934.58	1.88E-09	8.59E-09	1.88E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.40E-10	0.00E+00	6.98E-10
2205	420220.4	3734927.94	1.86E-09	8.51E-09	1.86E-11	1.04E-08	2.55E-10	1.16E-09	0.00E+00	1.42E-09	1.57E-10	5.35E-10	0.00E+00	6.92E-10
2206	420213.74	3734921.29	1.84E-09	8.43E-09	1.84E-11	1.03E-08	2.53E-10	1.15E-09	0.00E+00	1.41E-09	1.55E-10	5.30E-10	0.00E+00	6.85E-10
2207	420207.08	3734914.65	1.83E-09	8.35E-09	1.83E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.79E-10
2208	420200.42	3734908.01	1.81E-09	8.27E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.19E-10	0.00E+00	6.72E-10
2209	420193.76	3734901.37	1.79E-09	8.17E-09	1.79E-11	9.98E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.14E-10	0.00E+00	6.64E-10
2210	420187.09	3734894.73	1.77E-09	8.08E-09	1.77E-11	9.86E-09	2.42E-10	1.10E-09	0.00E+00	1.35E-09	1.49E-10	5.08E-10	0.00E+00	6.56E-10
2211	420180.43	3734888.08	1.75E-09	7.99E-09	1.75E-11	9.76E-09	2.40E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.02E-10	0.00E+00	6.49E-10
2212	420173.77	3734881.44	1.73E-09	7.91E-09	1.73E-11	9.66E-09	2.37E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.97E-10	0.00E+00	6.43E-10
2213	420167.11	3734874.8	1.71E-09	7.82E-09	1.71E-11	9.55E-09	2.35E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.92E-10	0.00E+00	6.36E-10
2214	420160.45	3734868.16	1.69E-09	7.73E-09	1.69E-11	9.43E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.86E-10	0.00E+00	6.28E-10
2215	420153.78	3734861.52	1.67E-09	7.63E-09	1.67E-11	9.31E-09	2.29E-10	1.04E-09	0.00E+00	1.27E-09	1.40E-10	4.79E-10	0.00E+00	6.20E-10
2216	420147.12	3734854.87	1.65E-09	7.53E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.12E-10
2217	420140.46	3734848.23	1.63E-09	7.44E-09	1.63E-11	9.08E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.68E-10	0.00E+00	6.04E-10
2218	420093.83	3734801.74	1.48E-09	6.77E-09	1.48E-11	8.27E-09	2.03E-10	9.26E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.50E-10
2219	420087.17	3734795.1	1.46E-09	6.68E-09	1.46E-11	8.15E-09	2.00E-10	9.13E-10	0.00E+00	1.11E-09	1.23E-10	4.20E-10	0.00E+00	5.42E-10
2220	420080.5	3734788.45	1.44E-09	6.59E-09	1.44E-11	8.04E-09	1.97E-10	9.01E-10	0.00E+00	1.10E-09	1.21E-10	4.14E-10	0.00E+00	5.35E-10
2221	420073.84	3734781.81	1.42E-09	6.49E-09	1.42E-11	7.93E-09	1.95E-10	8.88E-10	0.00E+00	1.08E-09	1.20E-10	4.08E-10	0.00E+00	5.28E-10
2222	420067.18	3734775.17	1.40E-09	6.41E-09	1.40E-11	7.82E-09	1.92E-10	8.76E-10	0.00E+00	1.07E-09	1.18E-10	4.03E-10	0.00E+00	5.21E-10
2223	420060.52	3734768.53	1.38E-09	6.31E-09	1.38E-11	7.71E-09	1.89E-10	8.63E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.13E-10
2224	420053.86	3734761.89	1.36E-09	6.23E-09	1.36E-11	7.60E-09	1.87E-10	8.51E-10	0.00E+00	1.04E-09	1.15E-10	3.91E-10	0.00E+00	5.06E-10
2225	420047.19	3734755.24	1.34E-09	6.14E-09	1.34E-11	7.49E-09	1.84E-10	8.39E-10	0.00E+00	1.02E-09	1.13E-10	3.86E-10	0.00E+00	4.99E-10
2226	420035.5	3734730.47	1.31E-09	5.99E-09	1.31E-11	7.31E-09	1.80E-10	8.19E-10	0.00E+00	9.98E-10	1.10E-10	3.76E-10	0.00E+00	4.86E-10
2227	420032.99	3734721.41	1.30E-09	5.96E-09	1.30E-11	7.28E-09	1.79E-10	8.15E-10	0.00E+00	9.94E-10	1.10E-10	3.75E-10	0.00E+00	4.84E-10
2228	420030.48	3734712.34	1.30E-09	5.94E-09	1.30E-11	7.25E-09	1.78E-10	8.13E-10	0.00E+00	9.91E-10	1.09E-10	3.73E-10	0.00E+00	4.83E-10
2229	420027.96	3734703.28	1.29E-09	5.92E-09	1.29E-11	7.22E-09	1.77E-10	8.09E-10	0.00E+00	9.87E-10	1.09E-10	3.72E-10	0.00E+00	4.81E-10
2230	420025.45	3734694.21	1.29E-09	5.91E-09	1.29E-11	7.22E-09	1.77E-10	8.08E-10	0.00E+00	9.85E-10	1.09E-10	3.71E-10	0.00E+00	4.80E-10
2231	420022.94	3734685.14	1.29E-09	5.91E-09	1.29E-11	7.22E-09	1.77E-10	8.08E-10	0.00E+00	9.85E-10	1.09E-10	3.71E-10	0.00E+00	4.80E-10
2232	420020.42	3734676.08	1.29E-09	5.91E-09	1.29E-11	7.22E-09	1.77E-10	8.08E-10	0.00E+00	9.85E-10	1.09E-10	3.71E-10	0.00E+00	4.80E-10
2233	420017.91	3734667.01	1.29E-09	5.92E-09	1.29E-11	7.22E-09	1.77E-10	8.09E-10	0.00E+00	9.87E-10	1.09E-10	3.72E-10	0.00E+00	4.81E-10
2234	420015.4	3734657.95	1.30E-09	5.94E-09	1.30E-11	7.25E-09	1.78E-10	8.13E-10	0.00E+00	9.91E-10	1.09E-10	3.73E-10	0.00E+00	4.83E-10
2235	420012.88	3734648.88	1.30E-09	5.94E-09	1.30E-11	7.25E-09	1.78E-10	8.13E-10	0.00E+00	9.91E-10	1.09E-10	3.73E-10	0.00E+00	4.83E-10
2236	420010.37	3734639.82	1.30E-09	5.93E-09	1.30E-11	7.24E-09	1.78E-10	8.11E-10	0.00E+00	9.88E-10	1.09E-10	3.73E-10	0.00E+00	4.82E-10
2237	420007.85	3734630.75	1.29E-09	5.91E-09	1.29E-11	7.22E-09	1.77E-10	8.08E-10	0.00E+00	9.85E-10	1.09E-10	3.71E-10	0.00E+00	4.80E-10
2238	420005.34	3734621.69	1.29E-09	5.89E-09	1.29E-11	7.19E-09	1.77E-10	8.06E-10	0.00E+00	9.82E-10	1.08E-10	3.70E-10	0.00E+00	4.79E-10
2239	420002.83	3734612.62	1.29E-09	5.88E-09	1.28E-11	7.17E-09	1.76E-10	8.03E-10	0.00E+00	9.80E-10	1.08E-10	3.69E-10	0.00E+00	4.77E-10
2240	420000.31	3734603.56	1.28E-09	5.86E-09	1.28E-11	7.15E-09	1.76E-10	8.01E-10	0.00E+00	9.77E-10	1.08E-10	3.68E-10	0.00E+00	4.76E-10
2241	419997.8	3734594.49	1.28E-09	5.84E-09	1.28E-11	7.13E-09	1.75E-10	7.98E-10	0.00E+00	9.73E-10	1.07E-10	3.67E-10	0.00E+00	4.74E-10
2242	419995.29	3734585.43	1.27E-09	5.82E-09	1.27E-11	7.10E-09	1.74E-10	7.96E-10	0.00E+00	9.70E-10	1.07E-10	3.66E-10	0.00E+00	4.73E-10
2243	419992.77	3734576.36	1.27E-09	5.80E-09	1.27E-11	7.08E-09	1.74E-10	7.93E-10	0.00E+00	9.67E-10	1.07E-10	3.64E-10	0.00E+00	4.71E-10
2244	419990.26	3734567.3	1.26E-09	5.78E-09	1.26E-11	7.06E-09	1.73E-10	7.91E-10	0.00E+00	9.64E-10	1.06E-10	3.63E-10	0.00E+00	4.70E-10
2245	419982.72	3734540.1	1.25E-09	5.73E-09	1.25E-11	6.99E-09	1.72E-10	7.83E-10	0.00E+00	9.55E-10	1.05E-10	3.60E-10	0.00E+00	4.65E-10
2246	419980.2	3734531.04	1.25E-09	5.71E-09	1.25E-11	6.97E-09	1.71E-10	7.81E-10	0.00E+00	9.52E-10	1.05E-10	3.59E-10	0.00E+00	4.64E-10

2247	419977.69	3734521.97	1.25E-09	5.70E-09	1.25E-11	6.96E-09	1.71E-10	7.79E-10	0.00E+00	9.50E-10	1.05E-10	3.58E-10	0.00E+00	4.63E-10
2248	419975.18	3734512.9	1.24E-09	5.69E-09	1.24E-11	6.94E-09	1.70E-10	7.78E-10	0.00E+00	9.48E-10	1.05E-10	3.57E-10	0.00E+00	4.62E-10
2249	419972.66	3734503.84	1.24E-09	5.65E-09	1.23E-11	6.90E-09	1.69E-10	7.72E-10	0.00E+00	9.42E-10	1.04E-10	3.55E-10	0.00E+00	4.59E-10
2250	419970.15	3734494.77	1.23E-09	5.61E-09	1.23E-11	6.85E-09	1.68E-10	7.67E-10	0.00E+00	9.35E-10	1.03E-10	3.53E-10	0.00E+00	4.56E-10
2251	419967.64	3734485.71	1.22E-09	5.59E-09	1.22E-11	6.82E-09	1.68E-10	7.64E-10	0.00E+00	9.32E-10	1.03E-10	3.51E-10	0.00E+00	4.54E-10
2252	419965.12	3734476.64	1.22E-09	5.58E-09	1.22E-11	6.82E-09	1.67E-10	7.64E-10	0.00E+00	9.31E-10	1.03E-10	3.51E-10	0.00E+00	4.54E-10
2253	419962.61	3734467.58	1.22E-09	5.58E-09	1.22E-11	6.81E-09	1.67E-10	7.63E-10	0.00E+00	9.30E-10	1.03E-10	3.51E-10	0.00E+00	4.53E-10
2254	419955.07	3734440.38	1.22E-09	5.58E-09	1.22E-11	6.81E-09	1.67E-10	7.63E-10	0.00E+00	9.31E-10	1.03E-10	3.51E-10	0.00E+00	4.53E-10
2255	419952.55	3734431.32	1.22E-09	5.57E-09	1.22E-11	6.80E-09	1.67E-10	7.62E-10	0.00E+00	9.29E-10	1.03E-10	3.50E-10	0.00E+00	4.53E-10
2256	419950.04	3734422.25	1.22E-09	5.56E-09	1.21E-11	6.78E-09	1.67E-10	7.60E-10	0.00E+00	9.26E-10	1.02E-10	3.49E-10	0.00E+00	4.51E-10
2257	419947.53	3734413.19	1.21E-09	5.54E-09	1.21E-11	6.77E-09	1.66E-10	7.58E-10	0.00E+00	9.24E-10	1.02E-10	3.48E-10	0.00E+00	4.50E-10
2258	420293.68	3735001	1.98E-09	9.06E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	0.00E+00	1.51E-09	1.67E-10	5.69E-10	0.00E+00	7.36E-10
2259	420302.03	3735005.84	2.01E-09	9.18E-09	2.01E-11	1.12E-08	2.75E-10	1.25E-09	0.00E+00	1.53E-09	1.69E-10	5.77E-10	0.00E+00	7.45E-10
2260	420310.37	3735010.68	2.03E-09	9.29E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.84E-10	0.00E+00	7.55E-10
2261	420318.71	3735015.52	2.05E-09	9.38E-09	2.05E-11	1.15E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.73E-10	5.90E-10	0.00E+00	7.62E-10
2262	420327.05	3735020.36	2.07E-09	9.47E-09	2.07E-11	1.16E-08	2.84E-10	1.30E-09	0.00E+00	1.58E-09	1.74E-10	5.95E-10	0.00E+00	7.70E-10
2263	420608.14	3734421.23	1.08E-07	4.92E-07	1.08E-09	6.01E-07	1.48E-08	6.73E-08	0.00E+00	8.21E-08	9.06E-09	3.09E-08	0.00E+00	4.00E-08
2264	420577.71	3734436.86	6.74E-08	3.08E-07	6.74E-10	3.77E-07	9.25E-09	4.22E-08	0.00E+00	5.14E-08	5.67E-09	1.94E-08	0.00E+00	2.51E-08
2265	420538.38	3734411.13	3.70E-08	1.69E-07	3.70E-10	2.07E-07	5.07E-09	2.31E-08	0.00E+00	2.82E-08	3.11E-09	1.06E-08	0.00E+00	1.37E-08
2266	420518.39	3734410.6	2.91E-08	1.33E-07	2.91E-10	1.63E-07	4.00E-09	1.82E-08	0.00E+00	2.22E-08	2.45E-09	8.37E-09	0.00E+00	1.08E-08
2267	420498.39	3734410.06	2.34E-08	1.07E-07	2.34E-10	1.30E-07	3.20E-09	1.46E-08	0.00E+00	1.78E-08	1.97E-09	6.72E-09	0.00E+00	8.68E-09
2268	420478.4	3734409.53	1.91E-08	8.71E-08	1.90E-10	1.06E-07	2.61E-09	1.19E-08	0.00E+00	1.45E-08	1.60E-09	5.48E-09	0.00E+00	7.08E-09
2269	420458.41	3734408.99	1.58E-08	7.20E-08	1.57E-10	8.79E-08	2.16E-09	9.85E-09	0.00E+00	1.20E-08	1.33E-09	4.53E-09	0.00E+00	5.85E-09
2270	420418.42	3734407.92	1.12E-08	5.11E-08	1.12E-10	6.24E-08	1.53E-09	6.99E-09	0.00E+00	8.52E-09	9.40E-10	3.21E-09	0.00E+00	4.15E-09
2271	420398.43	3734407.39	9.57E-09	4.38E-08	9.57E-11	5.34E-08	1.31E-09	5.98E-09	0.00E+00	7.30E-09	8.05E-10	2.75E-09	0.00E+00	3.56E-09
2272	420378.44	3734406.85	8.27E-09	3.78E-08	8.27E-11	4.62E-08	1.13E-09	5.17E-09	0.00E+00	6.31E-09	6.96E-10	2.38E-09	0.00E+00	3.07E-09
2273	420338.45	3734405.78	6.33E-09	2.89E-08	6.32E-11	3.53E-08	8.67E-10	3.96E-09	0.00E+00	4.82E-09	5.32E-10	1.82E-09	0.00E+00	2.35E-09
2274	420338.01	3734422.22	6.24E-09	2.85E-08	6.23E-11	3.48E-08	8.55E-10	3.90E-09	0.00E+00	4.75E-09	5.25E-10	1.79E-09	0.00E+00	2.32E-09
2275	420298.25	3734412.93	4.94E-09	2.26E-08	4.94E-11	2.76E-08	6.77E-10	3.09E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
2276	420297.81	3734429.37	4.88E-09	2.23E-08	4.87E-11	2.72E-08	6.68E-10	3.05E-09	0.00E+00	3.72E-09	4.10E-10	1.40E-09	0.00E+00	1.81E-09
2277	420258.26	3734411.86	3.97E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.48E-09	0.00E+00	3.03E-09	3.34E-10	1.14E-09	0.00E+00	1.48E-09
2278	420257.82	3734428.3	3.92E-09	1.79E-08	3.92E-11	2.19E-08	5.38E-10	2.45E-09	0.00E+00	2.99E-09	3.30E-10	1.13E-09	0.00E+00	1.46E-09
2279	420218.27	3734410.79	3.26E-09	1.49E-08	3.26E-11	1.82E-08	4.47E-10	2.04E-09	0.00E+00	2.49E-09	2.74E-10	9.37E-10	0.00E+00	1.21E-09
2280	420217.83	3734427.23	3.22E-09	1.47E-08	3.22E-11	1.80E-08	4.41E-10	2.01E-09	0.00E+00	2.46E-09	2.71E-10	9.25E-10	0.00E+00	1.20E-09
2281	420178.29	3734409.72	2.72E-09	1.24E-08	2.72E-11	1.52E-08	3.73E-10	1.70E-09	0.00E+00	2.07E-09	2.29E-10	7.82E-10	0.00E+00	1.01E-09
2282	420177.85	3734426.16	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.69E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.73E-10	0.00E+00	9.99E-10
2283	420138.3	3734408.65	2.30E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.62E-10	0.00E+00	8.56E-10
2284	420137.86	3734425.09	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.92E-10	6.55E-10	0.00E+00	8.46E-10
2285	420098.32	3734407.58	1.97E-09	9.03E-09	1.97E-11	1.10E-08	2.71E-10	1.23E-09	0.00E+00	1.51E-09	1.66E-10	5.67E-10	0.00E+00	7.34E-10
2286	420097.88	3734424.02	1.95E-09	8.93E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.61E-10	0.00E+00	7.25E-10
2287	420058.33	3734406.51	1.71E-09	7.83E-09	1.71E-11	9.56E-09	2.35E-10	1.07E-09	0.00E+00	1.31E-09	1.44E-10	4.92E-10	0.00E+00	6.36E-10
2288	420057.89	3734422.95	1.69E-09	7.74E-09	1.69E-11	9.45E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.86E-10	0.00E+00	6.29E-10
2289	420018.35	3734405.44	1.50E-09	6.87E-09	1.50E-11	8.38E-09	2.06E-10	9.39E-10	0.00E+00	1.14E-09	1.26E-10	4.31E-10	0.00E+00	5.58E-10
2290	420017.91	3734421.88	1.48E-09	6.77E-09	1.48E-11	8.27E-09	2.03E-10	9.26E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.50E-10
2291	419978.58	3734396.15	1.34E-09	6.11E-09	1.34E-11	7.46E-09	1.83E-10	8.35E-10	0.00E+00	1.02E-09	1.12E-10	3.84E-10	0.00E+00	4.96E-10
2292	419978.14	3734412.59	1.32E-09	6.05E-09	1.32E-11	7.39E-09	1.81E-10	8.27E-10	0.00E+00	1.01E-09	1.11E-10	3.80E-10	0.00E+00	4.92E-10
2293	420667.67	3734449.16	7.06E-07	3.23E-06	7.06E-09	3.94E-06	9.68E-08	4.42E-07	0.00E+00	5.39E-07	5.94E-08	2.03E-07	0.00E+00	2.62E-07
2294	420667.67	3734458.78	7.67E-07	3.51E-06	7.66E-09	4.28E-06	1.05E-07	4.79E-07	0.00E+00	5.84E-07	6.45E-08	2.20E-07	0.00E+00	2.85E-07
2295	420667.67	3734468.4	8.22E-07	3.76E-06	8.21E-09	4.59E-06	1.13E-07	5.14E-07	0.00E+00	6.26E-07	6.91E-08	2.36E-07	0.00E+00	3.05E-07
2296	420667.67	3734478.02	8.62E-07	3.94E-06	8.62E-09	4.81E-06	1.18E-07	5.39E-07	0.00E+00	6.57E-07	7.26E-08	2.48E-07	0.00E+00	3.20E-07
2297	420667.67	3734487.64	8.85E-07	4.05E-06	8.85E-09	4.94E-06	1.21E-07	5.53E-07	0.00E+00	6.75E-07	7.45E-08	2.54E-07	0.00E+00	3.29E-07
2298	420667.67	3734497.26	8.85E-07	4.04E-06	8.84E-09	4.94E-06	1.21E-07	5.53E-07	0.00E+00	6.74E-07	7.44E-08	2.54E-07	0.00E+00	3.29E-07
2299	420667.67	3734506.88	8.57E-07	3.92E-06	8.57E-09	4.78E-06	1.17E-07	5.36E-07	0.00E+00	6.53E-07	7.21E-08	2.46E-07	0.00E+00	3.18E-07
2300	420667.67	3734516.5	7.99E-07	3.65E-06	7.98E-09	4.46E-06	1.10E-07	4.99E-07	0.00E+00	6.09E-07	6.72E-08	2.30E-07	0.00E+00	2.97E-07
2301	420667.67	3734526.12	7.05E-07	3.22E-06	7.05E-09	3.94E-06	9.66E-08	4.41E-07	0.00E+00	5.37E-07	5.93E-08	2.03E-07	0.00E+00	2.62E-07
2302	420667.67	3734535.74	5.99E-07	2.74E-06	5.99E-09	3.34E-06	8.21E-08	3.74E-07	0.00E+00	4.57E-07	5.04E-08	1.72E-07	0.00E+00	2.23E-07
2303	420657.67	3734468.4	5.37E-07	2.45E-06	5.37E-09	3.00E-06	7.36E-08	3.36E-07	0.00E+00	4.09E-07	4.52E-08	1.54E-07	0.00E+00	1.99E-07
2304	420657.67	3734478.02	5.56E-07	2.54E-06	5.56E-09	3.10E-06	7.62E-08	3.48E-07	0.00E+00	4.24E-07	4.68E-08	1.60E-07	0.00E+00	2.06E-07
2305	420657.67	3734487.64	5.62E-07	2.57E-06	5.62E-09	3.14E-06	7.71E-08	3.52E-07	0.00E+00	4.29E-07	4.73E-08	1.62E-07	0.00E+00	2.09E-07
2306	420657.67	3734497.26	5.55E-07	2.54E-06	5.55E-09	3.10E-06	7.61E-08	3.47E-07	0.00E+00	4.23E-07	4.67E-08	1.59E-07	0.00E+00	2.06E-07
2307	420657.67	3734506.88	5.32E-07	2.43E-06	5.32E-09	2.97E-06	7.29E-08	3.33E-07	0.00E+00	4.05E-07	4.48E-08	1.53E-07	0.00E+00	1.98E-07
2308	420657.67	3734516.5	4.94E-07	2.26E-06	4.93E-09	2.76E-06	6.77E-08	3.09E-07	0.00E+00	3.76E-07	4.15E-08	1.42E-07	0.00E+00	1.83E-07
2309	420657.67	3734526.12	4.42E-07	2.02E-06	4.41E-09	2.46E-06	6.05E-08	2.76E-07	0.00E+00	3.37E-07	3.71E-08	1.27E-07	0.00E+00	1.64E-07
2310	420657.67	3734535.74	3.85E-07	1.76E-06	3.85E-09	2.15E-06	5.28E-08	2.41E-07	0.00E+00	2.94E-07	3.24E-08	1.11E-07	0.00E+00	1.43E-07
2311	420647.67	3734487.64	3.81E-07	1.74E-06	3.80E-09	2.12E-06	5.22E-08	2.38E-07	0.00E+00	2.90E-07	3.20E-08	1.09E-07	0.00E+00	1.41E-07
2312	420647.67	3734497.26	3.72E-07	1.70E-06	3.72E-09	2.08E-06	5.10E-08	2.33E-07	0.00E+00	2.84E-07	3.13E-08	1.07E-07	0.00E+00	1.38E-07
2313	420647.67	3734506.88	3.55E-07	1.63E-06	3.55E-09	1.98E-06	4.87E-08	2.22E-07	0.00E+00	2.71E-07	2.99E-08	1.02E-07	0.00E+00	1.32E-07
2314	420647.67	3734516.5	3.31E-07	1.51E-06	3.31E-09	1.85E-06	4.54E-08	2.07E-07	0.00E+00	2.52E-07	2.78E-08	9.51E-08	0.00E+00	1.23E-07
2315	420647.67	3734526.12	3.01E-07	1.37E-06	3.00E-09	1.68E-06	4.12E-08	1.88E-07	0.00E+00	2.29E-07	2.53E-08	8.64E-08	0.00E+00	1.12E-07
2316	420647.67	3734535.74	2.68E-07	1.23E-06	2.68E-09	1.50E-06	3.68E-08	1.68E-07	0.00E+00	2.05E-07	2.26E-08	7.71E-08	0.00E+00	9.97E-08
2317	420617.67	3734506.88	1.45E-07	6.63E-07	1.45E-09	8.09E-07	1.99E-08	9.06E-08	0.00E+00	1.11E-07	1.22E-08	4.17E-08	0.00E+00	5.39E-08
2318	420617.67	3734535.74	1.21E-07	5.51E-07	1.20E-09	6.73E-07	1.65E-08	7.54E-08	0.00E+00	9.19E-08	1.01E-08	3.46E-08	0.00E+00	4.48E-08
2319	420607.67	3734526.12	1.04E-07	4.75E-07	1.04E-09	5.79E-07	1.42E-08	6.49E-08	0.00E+00	7.91E-08	8.73E-09	2.98E-08	0.00E+00	3.86E-08
2320	420587.67	3734487.64	8.04E-08	3.68E-07	8.04E-10	4.49E-07	1.10E-08	5.03E-08	0.00E+00	6.13E-08	6.77E-09	2.31E-08	0.00E+00	2.99E-08
2321	420587.67	3734535.74	6.73E-08	3.08E-07	6.72E-10	3.76E-07	9.22E-09	4.21E-08	0.00E+00	5.13E-08	5.66E-09	1.93E-08	0.00E+00	2.50E-08

2322	420577.67	3734478.02	6.80E-08	3.11E-07	6.79E-10	3.79E-07	9.32E-09	4.25E-08	0.00E+00	5.18E-08	5.72E-09	1.95E-08	0.00E+00	2.52E-08
2323	420577.67	3734506.88	6.36E-08	2.91E-07	6.36E-10	3.55E-07	8.72E-09	3.98E-08	0.00E+00	4.85E-08	5.35E-09	1.83E-08	0.00E+00	2.36E-08
2324	420557.67	3734487.64	4.81E-08	2.20E-07	4.81E-10	2.68E-07	6.59E-09	3.01E-08	0.00E+00	3.66E-08	4.04E-09	1.38E-08	0.00E+00	1.79E-08
2325	420557.67	3734506.88	4.61E-08	2.11E-07	4.60E-10	2.57E-07	6.32E-09	2.88E-08	0.00E+00	3.51E-08	3.88E-09	1.32E-08	0.00E+00	1.71E-08
2326	420517.67	3734468.4	2.85E-08	1.30E-07	2.85E-10	1.59E-07	3.91E-09	1.78E-08	0.00E+00	2.17E-08	2.40E-09	8.19E-09	0.00E+00	1.06E-08
2327	420517.67	3734478.02	2.82E-08	1.29E-07	2.82E-10	1.57E-07	3.86E-09	1.76E-08	0.00E+00	2.15E-08	2.37E-09	8.10E-09	0.00E+00	1.05E-08
2328	420497.67	3734478.02	2.23E-08	1.02E-07	2.23E-10	1.25E-07	3.06E-09	1.39E-08	0.00E+00	1.70E-08	1.88E-09	6.41E-09	0.00E+00	8.29E-09
2329	420497.67	3734506.88	2.14E-08	9.80E-08	2.14E-10	1.20E-07	2.94E-09	1.34E-08	0.00E+00	1.63E-08	1.80E-09	6.16E-09	0.00E+00	7.96E-09
2330	420497.67	3734535.74	2.03E-08	9.29E-08	2.03E-10	1.13E-07	2.78E-09	1.27E-08	0.00E+00	1.55E-08	1.71E-09	5.84E-09	0.00E+00	7.55E-09
2331	420477.67	3734478.02	1.80E-08	8.25E-08	1.80E-10	1.01E-07	2.47E-09	1.13E-08	0.00E+00	1.38E-08	1.52E-09	5.18E-09	0.00E+00	6.70E-09
2332	420477.67	3734516.5	1.72E-08	7.84E-08	1.71E-10	9.57E-08	2.35E-09	1.07E-08	0.00E+00	1.31E-08	1.44E-09	4.93E-09	0.00E+00	6.37E-09
2333	420457.67	3734478.02	1.49E-08	6.80E-08	1.49E-10	8.30E-08	2.04E-09	9.29E-09	0.00E+00	1.13E-08	1.25E-09	4.27E-09	0.00E+00	5.52E-09
2334	420417.67	3734478.02	1.05E-08	4.81E-08	1.05E-10	5.87E-08	1.44E-09	6.58E-09	0.00E+00	8.02E-09	8.85E-10	3.02E-09	0.00E+00	3.91E-09
2335	420417.67	3734535.74	9.88E-09	4.52E-08	9.88E-11	5.52E-08	1.35E-09	6.18E-09	0.00E+00	7.53E-09	8.31E-10	2.84E-09	0.00E+00	3.67E-09
2336	420397.67	3734478.02	9.01E-09	4.12E-08	9.00E-11	5.03E-08	1.23E-09	5.63E-09	0.00E+00	6.87E-09	7.58E-10	2.59E-09	0.00E+00	3.35E-09
2337	420377.67	3734478.02	7.79E-09	3.56E-08	7.78E-11	4.35E-08	1.07E-09	4.87E-09	0.00E+00	5.94E-09	6.55E-10	2.24E-09	0.00E+00	2.89E-09
2338	420337.67	3734439.54	6.15E-09	2.81E-08	6.14E-11	3.43E-08	8.42E-10	3.84E-09	0.00E+00	4.68E-09	5.17E-10	1.77E-09	0.00E+00	2.28E-09
2339	420337.67	3734468.4	6.01E-09	2.75E-08	6.01E-11	3.36E-08	8.24E-10	3.76E-09	0.00E+00	4.58E-09	5.06E-10	1.73E-09	0.00E+00	2.23E-09
2340	420337.67	3734478.02	5.97E-09	2.73E-08	5.97E-11	3.33E-08	8.18E-10	3.73E-09	0.00E+00	4.55E-09	5.02E-10	1.72E-09	0.00E+00	2.22E-09
2341	420257.67	3734439.54	3.89E-09	1.78E-08	3.89E-11	2.17E-08	5.33E-10	2.43E-09	0.00E+00	2.97E-09	3.27E-10	1.12E-09	0.00E+00	1.45E-09
2342	420257.67	3734468.4	3.82E-09	1.75E-08	3.81E-11	2.13E-08	5.23E-10	2.39E-09	0.00E+00	2.91E-09	3.21E-10	1.10E-09	0.00E+00	1.42E-09
2343	420257.67	3734478.02	3.79E-09	1.73E-08	3.79E-11	2.12E-08	5.20E-10	2.37E-09	0.00E+00	2.89E-09	3.19E-10	1.09E-09	0.00E+00	1.41E-09
2344	420217.67	3734439.54	3.19E-09	1.46E-08	3.19E-11	1.78E-08	4.38E-10	2.00E-09	0.00E+00	2.43E-09	2.69E-10	9.18E-10	0.00E+00	1.19E-09
2345	420217.67	3734468.4	3.13E-09	1.43E-08	3.13E-11	1.75E-08	4.30E-10	1.96E-09	0.00E+00	2.39E-09	2.64E-10	9.00E-10	0.00E+00	1.16E-09
2346	420217.67	3734478.02	3.11E-09	1.42E-08	3.11E-11	1.74E-08	4.27E-10	1.95E-09	0.00E+00	2.37E-09	2.62E-10	8.94E-10	0.00E+00	1.16E-09
2347	420177.67	3734439.54	2.67E-09	1.22E-08	2.67E-11	1.49E-08	3.66E-10	1.67E-09	0.00E+00	2.03E-09	2.24E-10	7.66E-10	0.00E+00	9.91E-10
2348	420177.67	3734468.4	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	0.00E+00	2.00E-09	2.20E-10	7.52E-10	0.00E+00	9.72E-10
2349	420177.67	3734478.02	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.48E-10	0.00E+00	9.66E-10
2350	420137.67	3734439.54	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.49E-10	0.00E+00	8.38E-10
2351	420137.67	3734468.4	2.22E-09	1.01E-08	2.21E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.86E-10	6.37E-10	0.00E+00	8.23E-10
2352	420137.67	3734478.02	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.85E-10	6.33E-10	0.00E+00	8.18E-10
2353	420137.67	3734487.64	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.29E-10	0.00E+00	8.13E-10
2354	420097.67	3734439.54	1.93E-09	8.84E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.63E-10	5.55E-10	0.00E+00	7.18E-10
2355	420097.67	3734468.4	1.87E-09	8.53E-09	1.86E-11	1.04E-08	2.56E-10	1.17E-09	0.00E+00	1.42E-09	1.57E-10	5.36E-10	0.00E+00	6.93E-10
2356	420097.67	3734478.02	1.85E-09	8.45E-09	1.85E-11	1.03E-08	2.53E-10	1.16E-09	0.00E+00	1.41E-09	1.55E-10	5.31E-10	0.00E+00	6.86E-10
2357	420097.67	3734487.64	1.83E-09	8.37E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.26E-10	0.00E+00	6.80E-10
2358	420057.67	3734439.54	1.65E-09	7.55E-09	1.65E-11	9.22E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
2359	420057.67	3734468.4	1.59E-09	7.28E-09	1.59E-11	8.88E-09	2.18E-10	9.95E-10	0.00E+00	1.21E-09	1.34E-10	4.57E-10	0.00E+00	5.91E-10
2360	420057.67	3734478.02	1.58E-09	7.22E-09	1.58E-11	8.81E-09	2.16E-10	9.87E-10	0.00E+00	1.20E-09	1.33E-10	4.54E-10	0.00E+00	5.87E-10
2361	420057.67	3734487.64	1.57E-09	7.16E-09	1.57E-11	8.75E-09	2.15E-10	9.80E-10	0.00E+00	1.19E-09	1.32E-10	4.50E-10	0.00E+00	5.82E-10
2362	420017.67	3734439.54	1.45E-09	6.61E-09	1.45E-11	8.07E-09	1.98E-10	9.04E-10	0.00E+00	1.10E-09	1.22E-10	4.16E-10	0.00E+00	5.37E-10
2363	420017.67	3734468.4	1.40E-09	6.40E-09	1.40E-11	7.82E-09	1.92E-10	8.76E-10	0.00E+00	1.07E-09	1.18E-10	4.02E-10	0.00E+00	5.20E-10
2364	420017.67	3734478.02	1.39E-09	6.36E-09	1.39E-11	7.76E-09	1.91E-10	8.69E-10	0.00E+00	1.06E-09	1.17E-10	4.00E-10	0.00E+00	5.17E-10
2365	420017.67	3734487.64	1.38E-09	6.32E-09	1.38E-11	7.71E-09	1.89E-10	8.64E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.13E-10
2366	419977.8	3734430.18	1.31E-09	5.99E-09	1.31E-11	7.31E-09	1.80E-10	8.19E-10	0.00E+00	9.99E-10	1.10E-10	3.77E-10	0.00E+00	4.87E-10
2367	419977.67	3734439.54	1.30E-09	5.93E-09	1.30E-11	7.24E-09	1.78E-10	8.11E-10	0.00E+00	9.89E-10	1.09E-10	3.73E-10	0.00E+00	4.82E-10
2368	419977.67	3734468.4	1.26E-09	5.77E-09	1.26E-11	7.04E-09	1.73E-10	7.89E-10	0.00E+00	9.61E-10	1.06E-10	3.62E-10	0.00E+00	4.69E-10
2369	419977.67	3734478.02	1.25E-09	5.74E-09	1.25E-11	7.00E-09	1.72E-10	7.84E-10	0.00E+00	9.56E-10	1.06E-10	3.60E-10	0.00E+00	4.66E-10
2370	419977.67	3734487.64	1.25E-09	5.70E-09	1.25E-11	6.96E-09	1.71E-10	7.80E-10	0.00E+00	9.51E-10	1.05E-10	3.58E-10	0.00E+00	4.63E-10
2371	420671.09	3734572.86	3.38E-07	1.54E-06	3.37E-09	1.88E-06	4.63E-08	2.11E-07	0.00E+00	2.57E-07	2.84E-08	9.70E-08	0.00E+00	1.25E-07
2372	420656.76	3734567.11	2.25E-07	1.03E-06	2.25E-09	1.26E-06	3.08E-08	1.41E-07	0.00E+00	1.72E-07	1.89E-08	6.47E-08	0.00E+00	8.36E-08
2373	420705.81	3734575.34	1.45E-06	6.61E-06	1.44E-08	8.07E-06	1.98E-07	9.03E-07	0.00E+00	1.10E-06	1.22E-07	4.15E-07	0.00E+00	5.37E-07
2374	420715	3734575.2	1.86E-06	8.52E-06	1.86E-08	1.04E-05	2.55E-07	1.16E-06	0.00E+00	1.42E-06	1.57E-07	5.35E-07	0.00E+00	6.92E-07
2375	420724.18	3734575.07	2.17E-06	9.94E-06	2.17E-08	1.21E-05	2.98E-07	1.36E-06	0.00E+00	1.66E-06	1.83E-07	6.24E-07	0.00E+00	8.07E-07
2376	420733.37	3734574.94	2.33E-06	1.07E-05	2.33E-08	1.30E-05	3.20E-07	1.46E-06	0.00E+00	1.78E-06	1.96E-07	6.70E-07	0.00E+00	8.66E-07
2377	420671.23	3734582.86	2.82E-07	1.29E-06	2.82E-09	1.58E-06	3.87E-08	1.76E-07	0.00E+00	2.15E-07	2.37E-08	8.11E-08	0.00E+00	1.05E-07
2378	420656.9	3734577.1	1.94E-07	8.85E-07	1.94E-09	1.08E-06	2.65E-08	1.21E-07	0.00E+00	1.48E-07	1.63E-08	5.56E-08	0.00E+00	7.19E-08
2379	420639.59	3734564.23	1.49E-07	6.80E-07	1.49E-09	8.30E-07	2.04E-08	9.30E-08	0.00E+00	1.13E-07	1.25E-08	4.27E-08	0.00E+00	5.53E-08
2380	420705.96	3734585.33	1.03E-06	4.73E-06	1.03E-08	5.78E-06	1.42E-07	6.47E-07	0.00E+00	7.89E-07	8.71E-08	2.97E-07	0.00E+00	3.84E-07
2381	420715.14	3734585.2	1.33E-06	6.08E-06	1.33E-08	7.42E-06	1.82E-07	8.31E-07	0.00E+00	1.01E-06	1.12E-07	3.82E-07	0.00E+00	4.94E-07
2382	420724.33	3734585.07	1.58E-06	7.22E-06	1.58E-08	8.81E-06	2.16E-07	9.87E-07	0.00E+00	1.20E-06	1.33E-07	4.54E-07	0.00E+00	5.86E-07
2383	420733.52	3734584.93	1.74E-06	7.98E-06	1.74E-08	9.74E-06	2.39E-07	1.09E-06	0.00E+00	1.33E-06	1.47E-07	5.01E-07	0.00E+00	6.48E-07
2384	420671.38	3734592.86	2.39E-07	1.09E-06	2.39E-09	1.33E-06	3.28E-08	1.49E-07	0.00E+00	1.82E-07	2.01E-08	6.87E-08	0.00E+00	8.88E-08
2385	420657.05	3734587.1	1.68E-07	7.69E-07	1.68E-09	9.38E-07	2.30E-08	1.05E-07	0.00E+00	1.28E-07	1.41E-08	4.83E-08	0.00E+00	6.24E-08
2386	420642.72	3734581.35	1.28E-07	5.87E-07	1.28E-09	7.17E-07	1.76E-08	8.03E-08	0.00E+00	9.79E-08	1.08E-08	3.69E-08	0.00E+00	4.77E-08
2387	420632.57	3734571.35	1.17E-07	5.35E-07	1.17E-09	6.54E-07	1.60E-08	7.32E-08	0.00E+00	8.92E-08	9.85E-09	3.36E-08	0.00E+00	4.35E-08
2388	420696.91	3734595.47	5.74E-07	2.62E-06	5.74E-09	3.20E-06	7.87E-08	3.59E-07	0.00E+00	4.38E-07	4.83E-08	1.65E-07	0.00E+00	2.13E-07
2389	420706.1	3734595.33	7.74E-07	3.54E-06	7.74E-09	4.32E-06	1.06E-07	4.84E-07	0.00E+00	5.90E-07	6.52E-08	2.23E-07	0.00E+00	2.88E-07
2390	420715.29	3734595.2	9.88E-07	4.52E-06	9.87E-09	5.51E-06	1.35E-07	6.17E-07	0.00E+00	7.53E-07	8.31E-08	2.84E-07	0.00E+00	3.67E-07
2391	420724.47	3734595.07	1.18E-06	5.40E-06	1.18E-08	6.60E-06	1.62E-07	7.39E-07	0.00E+00	9.01E-07	9.94E-08	3.40E-07	0.00E+00	4.39E-07
2392	420645.25	3734592.31	1.18E-07	5.41E-07	1.18E-09	6.60E-07	1.62E-08	7.40E-08	0.00E+00	9.02E-08	9.95E-09	3.40E-08	0.00E+00	4.40E-08
2393	420625.06	3734577.29	9.49E-08	4.34E-07	9.49E-10	5.30E-07	1.30E-08	5.94E-08	0.00E+00	7.24E-08	7.99E-09	2.73E-08	0.00E+00	3.53E-08
2394	420687.87	3734605.6	3.35E-07	1.53E-06	3.35E-09	1.87E-06	4.59E-08	2.09E-07	0.00E+00	2.55E-07	2.82E-08	9.62E-08	0.00E+00	1.24E-07
2395	420697.06	3734605.47	4.54E-07	2.08E-06	4.54E-09	2.54E-06	6.23E-08	2.84E-07	0.00E+00	3.46E-07	3.82E-08	1.31E-07	0.00E+00	1.69E-07
2396	420706.25	3734605.33	6.00E-07	2.74E-06	6.00E-09	3.35E-06	8.22E-08	3.75E-07	0.00E+00	4.57E-07	5.05E-08	1.72E-07	0.00E+00	2.23E-07

2397	420715.43	3734605.2	7.58E-07	3.46E-06	7.57E-09	4.23E-06	1.04E-07	4.74E-07	0.00E+00	5.78E-07	6.37E-08	2.18E-07	0.00E+00	2.81E-07
2398	420724.62	3734605.07	9.09E-07	4.16E-06	9.09E-09	5.08E-06	1.25E-07	5.69E-07	0.00E+00	6.93E-07	7.65E-08	2.61E-07	0.00E+00	3.38E-07
2399	420637.89	3734599.29	9.42E-08	4.31E-07	9.42E-10	5.26E-07	1.29E-08	5.89E-08	0.00E+00	7.18E-08	7.93E-09	2.71E-08	0.00E+00	3.50E-08
2400	420618.11	3734584.58	7.83E-08	3.58E-07	7.82E-10	4.37E-07	1.07E-08	4.89E-08	0.00E+00	5.96E-08	6.58E-09	2.25E-08	0.00E+00	2.91E-08
2401	420611.29	3734568.3	8.11E-08	3.71E-07	8.11E-10	4.53E-07	1.11E-08	5.07E-08	0.00E+00	6.18E-08	6.82E-09	2.33E-08	0.00E+00	3.01E-08
2402	420688.02	3734615.6	2.78E-07	1.27E-06	2.78E-09	1.55E-06	3.81E-08	1.74E-07	0.00E+00	2.12E-07	2.34E-08	7.99E-08	0.00E+00	1.03E-07
2403	420697.2	3734615.46	3.68E-07	1.68E-06	3.68E-09	2.06E-06	5.05E-08	2.30E-07	0.00E+00	2.81E-07	3.10E-08	1.06E-07	0.00E+00	1.37E-07
2404	420706.39	3734615.33	4.77E-07	2.18E-06	4.77E-09	2.66E-06	6.54E-08	2.98E-07	0.00E+00	3.64E-07	4.01E-08	1.37E-07	0.00E+00	1.77E-07
2405	420715.58	3734615.2	5.97E-07	2.73E-06	5.97E-09	3.33E-06	8.18E-08	3.73E-07	0.00E+00	4.55E-07	5.02E-08	1.72E-07	0.00E+00	2.22E-07
2406	420724.76	3734615.06	7.16E-07	3.27E-06	7.16E-09	4.00E-06	9.82E-08	4.48E-07	0.00E+00	5.46E-07	6.02E-08	2.06E-07	0.00E+00	2.66E-07
2407	420638.67	3734609.55	8.53E-08	3.90E-07	8.53E-10	4.76E-07	1.17E-08	5.33E-08	0.00E+00	6.50E-08	7.18E-09	2.45E-08	0.00E+00	3.17E-08
2408	420622.55	3734603.08	7.00E-08	3.20E-07	7.00E-10	3.91E-07	9.60E-09	4.38E-08	0.00E+00	5.34E-08	5.89E-09	2.01E-08	0.00E+00	2.60E-08
2409	420611.14	3734591.83	6.56E-08	3.00E-07	6.55E-10	3.66E-07	8.99E-09	4.10E-08	0.00E+00	5.00E-08	5.52E-09	1.88E-08	0.00E+00	2.44E-08
2410	420604.43	3734575.8	6.79E-08	3.11E-07	6.79E-10	3.79E-07	9.31E-09	4.25E-08	0.00E+00	5.18E-08	5.72E-09	1.95E-08	0.00E+00	2.52E-08
2411	420688.16	3734625.6	2.35E-07	1.07E-06	2.35E-09	1.31E-06	3.22E-08	1.47E-07	0.00E+00	1.79E-07	1.98E-08	6.75E-08	0.00E+00	8.72E-08
2412	420697.35	3734625.46	3.04E-07	1.39E-06	3.04E-09	1.70E-06	4.17E-08	1.90E-07	0.00E+00	2.32E-07	2.56E-08	8.75E-08	0.00E+00	1.13E-07
2413	420706.54	3734625.33	3.88E-07	1.77E-06	3.88E-09	2.17E-06	5.32E-08	2.43E-07	0.00E+00	2.96E-07	3.26E-08	1.11E-07	0.00E+00	1.44E-07
2414	420715.72	3734625.2	4.80E-07	2.20E-06	4.80E-09	2.68E-06	6.59E-08	3.00E-07	0.00E+00	3.66E-07	4.04E-08	1.38E-07	0.00E+00	1.78E-07
2415	420724.91	3734625.06	5.75E-07	2.63E-06	5.75E-09	3.21E-06	7.88E-08	3.60E-07	0.00E+00	4.38E-07	4.84E-08	1.65E-07	0.00E+00	2.14E-07
2416	420639.32	3734619.75	7.75E-08	3.54E-07	7.75E-10	4.33E-07	1.06E-08	4.85E-08	0.00E+00	5.91E-08	6.52E-09	2.23E-08	0.00E+00	2.88E-08
2417	420623.4	3734613.35	6.41E-08	2.93E-07	6.41E-10	3.58E-07	8.79E-09	4.01E-08	0.00E+00	4.89E-08	5.40E-09	1.84E-08	0.00E+00	2.38E-08
2418	420604.16	3734599.05	5.57E-08	2.55E-07	5.56E-10	3.11E-07	7.63E-09	3.48E-08	0.00E+00	4.24E-08	4.68E-09	1.60E-08	0.00E+00	2.07E-08
2419	420597.54	3734583.22	5.77E-08	2.64E-07	5.76E-10	3.22E-07	7.91E-09	3.61E-08	0.00E+00	4.40E-08	4.85E-09	1.66E-08	0.00E+00	2.14E-08
2420	420688.31	3734635.6	2.00E-07	9.17E-07	2.00E-09	1.12E-06	2.75E-08	1.25E-07	0.00E+00	1.53E-07	1.69E-08	5.76E-08	0.00E+00	7.45E-08
2421	420697.49	3734635.46	2.55E-07	1.17E-06	2.55E-09	1.43E-06	3.50E-08	1.60E-07	0.00E+00	1.95E-07	2.15E-08	7.34E-08	0.00E+00	9.49E-08
2422	420706.68	3734635.33	3.21E-07	1.47E-06	3.21E-09	1.79E-06	4.40E-08	2.01E-07	0.00E+00	2.45E-07	2.70E-08	9.22E-08	0.00E+00	1.19E-07
2423	420715.87	3734635.2	3.94E-07	1.80E-06	3.94E-09	2.20E-06	5.40E-08	2.46E-07	0.00E+00	3.00E-07	3.31E-08	1.13E-07	0.00E+00	1.46E-07
2424	420725.05	3734635.06	4.70E-07	2.15E-06	4.69E-09	2.62E-06	6.44E-08	2.94E-07	0.00E+00	3.58E-07	3.95E-08	1.35E-07	0.00E+00	1.74E-07
2425	420671.6	3734652.59	1.05E-07	4.81E-07	1.05E-09	5.87E-07	1.44E-08	6.58E-08	0.00E+00	8.02E-08	8.85E-09	3.02E-08	0.00E+00	3.91E-08
2426	420640.33	3734640.04	6.44E-08	2.94E-07	6.43E-10	3.59E-07	8.82E-09	4.02E-08	0.00E+00	4.91E-08	5.41E-09	1.85E-08	0.00E+00	2.39E-08
2427	420624.7	3734633.76	5.39E-08	2.47E-07	5.39E-10	3.01E-07	7.39E-09	3.37E-08	0.00E+00	4.11E-08	4.54E-09	1.55E-08	0.00E+00	2.00E-08
2428	420609.07	3734627.48	4.65E-08	2.13E-07	4.65E-10	2.60E-07	6.38E-09	2.91E-08	0.00E+00	3.55E-08	3.92E-09	1.34E-08	0.00E+00	1.73E-08
2429	420590.18	3734613.44	4.15E-08	1.90E-07	4.15E-10	2.32E-07	5.69E-09	2.59E-08	0.00E+00	3.16E-08	3.49E-09	1.19E-08	0.00E+00	1.54E-08
2430	420583.68	3734597.9	4.29E-08	1.96E-07	4.29E-10	2.40E-07	5.88E-09	2.68E-08	0.00E+00	3.27E-08	3.61E-09	1.23E-08	0.00E+00	1.59E-08
2431	420573.93	3734574.59	4.40E-08	2.01E-07	4.39E-10	2.45E-07	6.03E-09	2.75E-08	0.00E+00	3.35E-08	3.70E-09	1.26E-08	0.00E+00	1.63E-08
2432	420688.6	3734655.59	1.50E-07	6.88E-07	1.50E-09	8.40E-07	2.06E-08	9.41E-08	0.00E+00	1.15E-07	1.27E-08	4.32E-08	0.00E+00	5.59E-08
2433	420697.78	3734655.46	1.86E-07	8.53E-07	1.86E-09	1.04E-06	2.56E-08	1.17E-07	0.00E+00	1.42E-07	1.57E-08	5.36E-08	0.00E+00	6.93E-08
2434	420706.97	3734655.33	2.29E-07	1.05E-06	2.29E-09	1.28E-06	3.14E-08	1.43E-07	0.00E+00	1.74E-07	1.93E-08	6.58E-08	0.00E+00	8.50E-08
2435	420716.16	3734655.19	2.76E-07	1.26E-06	2.76E-09	1.54E-06	3.79E-08	1.73E-07	0.00E+00	2.11E-07	2.32E-08	7.94E-08	0.00E+00	1.03E-07
2436	420671.34	3734672.37	8.37E-08	3.83E-07	8.37E-10	4.67E-07	1.15E-08	5.23E-08	0.00E+00	6.38E-08	7.04E-09	2.41E-08	0.00E+00	3.11E-08
2437	420654.63	3734665.66	6.47E-08	2.96E-07	6.46E-10	3.61E-07	8.86E-09	4.04E-08	0.00E+00	4.93E-08	5.44E-09	1.86E-08	0.00E+00	2.40E-08
2438	420646.27	3734662.3	5.77E-08	2.64E-07	5.76E-10	3.22E-07	7.90E-09	3.60E-08	0.00E+00	4.40E-08	4.85E-09	1.66E-08	0.00E+00	2.14E-08
2439	420629.55	3734655.59	4.75E-08	2.17E-07	4.75E-10	2.65E-07	6.51E-09	2.97E-08	0.00E+00	3.62E-08	4.00E-09	1.36E-08	0.00E+00	1.76E-08
2440	420612.83	3734648.88	4.07E-08	1.86E-07	4.07E-10	2.27E-07	5.58E-09	2.54E-08	0.00E+00	3.10E-08	3.42E-09	1.17E-08	0.00E+00	1.51E-08
2441	420604.47	3734645.52	3.80E-08	1.74E-07	3.80E-10	2.12E-07	5.21E-09	2.38E-08	0.00E+00	2.90E-08	3.20E-09	1.09E-08	0.00E+00	1.41E-08
2442	420587.75	3734638.81	3.35E-08	1.53E-07	3.34E-10	1.87E-07	4.59E-09	2.09E-08	0.00E+00	2.55E-08	2.81E-09	9.61E-09	0.00E+00	1.24E-08
2443	420575.92	3734627.14	3.21E-08	1.47E-07	3.21E-10	1.79E-07	4.40E-09	2.01E-08	0.00E+00	2.45E-08	2.70E-09	9.22E-09	0.00E+00	1.19E-08
2444	420572.44	3734618.83	3.27E-08	1.49E-07	3.26E-10	1.82E-07	4.48E-09	2.04E-08	0.00E+00	2.49E-08	2.75E-09	9.38E-09	0.00E+00	1.21E-08
2445	420679.7	3734675.73	9.59E-08	4.38E-07	9.59E-10	5.35E-07	1.31E-08	6.00E-08	0.00E+00	7.31E-08	8.07E-09	2.76E-08	0.00E+00	3.56E-08
2446	420688.89	3734675.59	1.17E-07	5.33E-07	1.16E-09	6.50E-07	1.60E-08	7.28E-08	0.00E+00	8.88E-08	9.80E-09	3.35E-08	0.00E+00	4.33E-08
2447	420698.08	3734675.46	1.41E-07	6.46E-07	1.41E-09	7.89E-07	1.94E-08	8.84E-08	0.00E+00	1.08E-07	1.19E-08	4.06E-08	0.00E+00	5.25E-08
2448	420707.26	3734675.33	1.70E-07	7.78E-07	1.70E-09	9.50E-07	2.33E-08	1.06E-07	0.00E+00	1.30E-07	1.43E-08	4.89E-08	0.00E+00	6.32E-08
2449	420716.45	3734675.19	2.03E-07	9.27E-07	2.03E-09	1.13E-06	2.78E-08	1.27E-07	0.00E+00	1.55E-07	1.71E-08	5.82E-08	0.00E+00	7.53E-08
2450	420671.8	3734692.44	6.87E-08	3.14E-07	6.86E-10	3.83E-07	9.41E-09	4.29E-08	0.00E+00	5.23E-08	5.78E-09	1.97E-08	0.00E+00	2.55E-08
2451	420655.43	3734685.86	5.44E-08	2.49E-07	5.44E-10	3.04E-07	7.46E-09	3.40E-08	0.00E+00	4.15E-08	4.58E-09	1.56E-08	0.00E+00	2.02E-08
2452	420639.05	3734679.28	4.45E-08	2.03E-07	4.44E-10	2.48E-07	6.10E-09	2.78E-08	0.00E+00	3.39E-08	3.74E-09	1.28E-08	0.00E+00	1.65E-08
2453	420622.67	3734672.71	3.77E-08	1.73E-07	3.77E-10	2.11E-07	5.17E-09	2.36E-08	0.00E+00	2.88E-08	3.17E-09	1.08E-08	0.00E+00	1.40E-08
2454	420606.3	3734666.13	3.30E-08	1.51E-07	3.30E-10	1.84E-07	4.53E-09	2.07E-08	0.00E+00	2.52E-08	2.78E-09	9.49E-09	0.00E+00	1.23E-08
2455	420589.92	3734659.56	2.94E-08	1.35E-07	2.94E-10	1.64E-07	4.03E-09	1.84E-08	0.00E+00	2.24E-08	2.48E-09	8.45E-09	0.00E+00	1.09E-08
2456	420573.55	3734652.98	2.64E-08	1.21E-07	2.64E-10	1.47E-07	3.62E-09	1.65E-08	0.00E+00	2.01E-08	2.22E-09	7.58E-09	0.00E+00	9.80E-09
2457	420531.29	3734568.3	2.67E-08	1.22E-07	2.67E-10	1.49E-07	3.67E-09	1.67E-08	0.00E+00	2.04E-08	2.25E-09	7.68E-09	0.00E+00	9.93E-09
2458	420689.18	3734695.59	9.25E-08	4.23E-07	9.24E-10	5.16E-07	1.27E-08	5.78E-08	0.00E+00	7.05E-08	7.78E-09	2.66E-08	0.00E+00	3.43E-08
2459	420698.37	3734695.46	1.10E-07	5.04E-07	1.10E-09	6.15E-07	1.51E-08	6.89E-08	0.00E+00	8.40E-08	9.27E-09	3.17E-08	0.00E+00	4.09E-08
2460	420707.55	3734695.32	1.31E-07	5.98E-07	1.31E-09	7.30E-07	1.79E-08	8.17E-08	0.00E+00	9.97E-08	1.10E-08	3.76E-08	0.00E+00	4.86E-08
2461	420735.11	3734694.92	2.04E-07	9.33E-07	2.04E-09	1.14E-06	2.80E-08	1.28E-07	0.00E+00	1.56E-07	1.72E-08	5.86E-08	0.00E+00	7.58E-08
2462	420672.22	3734712.48	5.71E-08	2.61E-07	5.71E-10	3.19E-07	7.83E-09	3.57E-08	0.00E+00	4.35E-08	4.80E-09	1.64E-08	0.00E+00	2.12E-08
2463	420656.1	3734706.01	4.63E-08	2.11E-07	4.62E-10	2.58E-07	6.34E-09	2.89E-08	0.00E+00	3.53E-08	3.89E-09	1.33E-08	0.00E+00	1.72E-08
2464	420639.98	3734699.54	3.83E-08	1.75E-07	3.83E-10	2.14E-07	5.25E-09	2.39E-08	0.00E+00	2.92E-08	3.22E-09	1.10E-08	0.00E+00	1.42E-08
2465	420623.86	3734693.07	3.27E-08	1.50E-07	3.27E-10	1.83E-07	4.49E-09	2.05E-08	0.00E+00	2.50E-08	2.75E-09	9.41E-09	0.00E+00	1.22E-08
2466	420607.74	3734686.59	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	0.00E+00	2.20E-08	2.43E-09	8.29E-09	0.00E+00	1.07E-08
2467	420591.62	3734680.12	2.59E-08	1.18E-07	2.59E-10	1.44E-07	3.55E-09	1.62E-08	0.00E+00	1.97E-08	2.18E-09	7.44E-09	0.00E+00	9.61E-09
2468	420575.5	3734673.65	2.34E-08	1.07E-07	2.34E-10	1.31E-07	3.21E-09	1.47E-08	0.00E+00	1.79E-08	1.97E-09	6.74E-09	0.00E+00	8.71E-09
2469	420547.96	3734655.93	2.06E-08	9.44E-08	2.06E-10	1.15E-07	2.83E-09	1.29E-08	0.00E+00	1.57E-08	1.74E-09	5.93E-09	0.00E+00	7.67E-09
2470	420689.47	3734715.59	7.48E-08	3.42E-07	7.48E-10	4.18E-07	1.03E-08	4.68E-08	0.00E+00	5.70E-08	6.29E-09	2.15E-08	0.00E+00	2.78E-08
2471	420698.66	3734715.45	8.79E-08	4.02E-07	8.79E-10	4.91E-07	1.21E-08	5.50E-08	0.00E+00	6.70E-08	7.40E-09	2.53E-08	0.00E+00	3.27E-08

2472	420707.84	3734715.32	1.03E-07	4.70E-07	1.03E-09	5.74E-07	1.41E-08	6.43E-08	0.00E+00	7.84E-08	8.66E-09	2.96E-08	0.00E+00	3.82E-08
2473	420735.4	3734714.92	1.57E-07	7.17E-07	1.57E-09	8.76E-07	2.15E-08	9.81E-08	0.00E+00	1.20E-07	1.32E-08	4.51E-08	0.00E+00	5.83E-08
2474	420663.71	3734728.95	4.31E-08	1.97E-07	4.31E-10	2.40E-07	5.90E-09	2.69E-08	0.00E+00	3.28E-08	3.62E-09	1.24E-08	0.00E+00	1.60E-08
2475	420655.29	3734725.57	3.90E-08	1.78E-07	3.90E-10	2.18E-07	5.34E-09	2.44E-08	0.00E+00	2.97E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
2476	420646.86	3734722.18	3.55E-08	1.62E-07	3.54E-10	1.98E-07	4.86E-09	2.22E-08	0.00E+00	2.70E-08	2.98E-09	1.02E-08	0.00E+00	1.32E-08
2477	420638.43	3734718.8	3.25E-08	1.48E-07	3.24E-10	1.81E-07	4.45E-09	2.03E-08	0.00E+00	2.47E-08	2.73E-09	9.33E-09	0.00E+00	1.21E-08
2478	420630	3734715.41	2.99E-08	1.37E-07	2.99E-10	1.67E-07	4.11E-09	1.87E-08	0.00E+00	2.28E-08	2.52E-09	8.61E-09	0.00E+00	1.11E-08
2479	420621.57	3734712.03	2.79E-08	1.27E-07	2.78E-10	1.55E-07	3.82E-09	1.74E-08	0.00E+00	2.12E-08	2.34E-09	8.00E-09	0.00E+00	1.03E-08
2480	420613.14	3734708.64	2.61E-08	1.19E-07	2.61E-10	1.46E-07	3.58E-09	1.63E-08	0.00E+00	1.99E-08	2.19E-09	7.50E-09	0.00E+00	9.69E-09
2481	420604.71	3734705.26	2.46E-08	1.12E-07	2.46E-10	1.37E-07	3.37E-09	1.54E-08	0.00E+00	1.87E-08	2.07E-09	7.07E-09	0.00E+00	9.13E-09
2482	420596.28	3734701.87	2.33E-08	1.07E-07	2.33E-10	1.30E-07	3.19E-09	1.46E-08	0.00E+00	1.78E-08	1.96E-09	6.69E-09	0.00E+00	8.65E-09
2483	420587.85	3734698.49	2.21E-08	1.01E-07	2.21E-10	1.24E-07	3.04E-09	1.38E-08	0.00E+00	1.69E-08	1.86E-09	6.36E-09	0.00E+00	8.23E-09
2484	420579.42	3734695.11	2.11E-08	9.65E-08	2.11E-10	1.18E-07	2.89E-09	1.32E-08	0.00E+00	1.61E-08	1.78E-09	6.07E-09	0.00E+00	7.84E-09
2485	420554.14	3734684.95	1.84E-08	8.41E-08	1.84E-10	1.03E-07	2.52E-09	1.15E-08	0.00E+00	1.40E-08	1.55E-09	5.29E-09	0.00E+00	6.83E-09
2486	420545.71	3734681.57	1.76E-08	8.04E-08	1.76E-10	9.81E-08	2.41E-09	1.10E-08	0.00E+00	1.34E-08	1.48E-09	5.05E-09	0.00E+00	6.53E-09
2487	420519.75	3734636.29	1.78E-08	8.16E-08	1.78E-10	9.96E-08	2.45E-09	1.12E-08	0.00E+00	1.36E-08	1.50E-09	5.13E-09	0.00E+00	6.63E-09
2488	420502.21	3734594.39	1.80E-08	8.23E-08	1.80E-10	1.00E-07	2.47E-09	1.13E-08	0.00E+00	1.37E-08	1.51E-09	5.17E-09	0.00E+00	6.69E-09
2489	420735.69	3734734.92	1.23E-07	5.65E-07	1.23E-09	6.89E-07	1.69E-08	7.72E-08	0.00E+00	9.41E-08	1.04E-08	3.55E-08	0.00E+00	4.59E-08
2490	420606.2	3734725.74	2.18E-08	9.96E-08	2.18E-10	1.22E-07	2.99E-09	1.36E-08	0.00E+00	1.66E-08	1.83E-09	6.26E-09	0.00E+00	8.10E-09
2491	420589.61	3734719.08	1.97E-08	9.01E-08	1.97E-10	1.10E-07	2.70E-09	1.23E-08	0.00E+00	1.50E-08	1.66E-09	5.66E-09	0.00E+00	7.32E-09
2492	420573.02	3734712.41	1.80E-08	8.25E-08	1.80E-10	1.01E-07	2.47E-09	1.13E-08	0.00E+00	1.38E-08	1.52E-09	5.19E-09	0.00E+00	6.70E-09
2493	420539.83	3734699.09	1.53E-08	7.00E-08	1.53E-10	8.54E-08	2.10E-09	9.57E-09	0.00E+00	1.17E-08	1.29E-09	4.40E-09	0.00E+00	5.68E-09
2494	420519.79	3734684.18	1.43E-08	6.54E-08	1.43E-10	7.98E-08	1.96E-09	8.94E-09	0.00E+00	1.09E-08	1.20E-09	4.11E-09	0.00E+00	5.31E-09
2495	420468.02	3734560.48	1.45E-08	6.61E-08	1.44E-10	8.07E-08	1.98E-09	9.04E-09	0.00E+00	1.10E-08	1.22E-09	4.15E-09	0.00E+00	5.37E-09
2496	420735.98	3734754.92	9.91E-08	4.53E-07	9.90E-10	5.53E-07	1.36E-08	6.19E-08	0.00E+00	7.55E-08	8.34E-09	2.85E-08	0.00E+00	3.68E-08
2497	420541.95	3734719.82	1.39E-08	6.36E-08	1.39E-10	7.77E-08	1.91E-09	8.70E-09	0.00E+00	1.06E-08	1.17E-09	4.00E-09	0.00E+00	5.17E-09
2498	420525.58	3734713.25	1.29E-08	5.91E-08	1.29E-10	7.21E-08	1.77E-09	8.08E-09	0.00E+00	9.85E-09	1.09E-09	3.71E-09	0.00E+00	4.80E-09
2499	420502.39	3734690.39	1.23E-08	5.62E-08	1.23E-10	6.87E-08	1.69E-09	7.69E-09	0.00E+00	9.38E-09	1.03E-09	3.53E-09	0.00E+00	4.57E-09
2500	420495.58	3734674.11	1.25E-08	5.74E-08	1.25E-10	7.00E-08	1.72E-09	7.84E-09	0.00E+00	9.56E-09	1.06E-09	3.61E-09	0.00E+00	4.66E-09
2501	420690.34	3734775.58	3.96E-08	1.81E-07	3.96E-10	2.21E-07	5.43E-09	2.48E-08	0.00E+00	3.02E-08	3.33E-09	1.14E-08	0.00E+00	1.47E-08
2502	420699.53	3734775.45	4.58E-08	2.09E-07	4.58E-10	2.56E-07	6.28E-09	2.86E-08	0.00E+00	3.49E-08	3.85E-09	1.32E-08	0.00E+00	1.70E-08
2503	420708.71	3734775.31	5.29E-08	2.42E-07	5.29E-10	2.95E-07	7.26E-09	3.31E-08	0.00E+00	4.04E-08	4.45E-09	1.52E-08	0.00E+00	1.97E-08
2504	420736.27	3734774.91	7.99E-08	3.65E-07	7.99E-10	4.46E-07	1.10E-08	5.00E-08	0.00E+00	6.09E-08	6.72E-09	2.30E-08	0.00E+00	2.97E-08
2505	420672.98	3734792.31	2.79E-08	1.28E-07	2.79E-10	1.56E-07	3.83E-09	1.75E-08	0.00E+00	2.13E-08	2.35E-09	8.02E-09	0.00E+00	1.04E-08
2506	420596.77	3734761.71	1.62E-08	7.39E-08	1.62E-10	9.03E-08	2.22E-09	1.01E-08	0.00E+00	1.23E-08	1.36E-09	4.65E-09	0.00E+00	6.01E-09
2507	420588.3	3734758.31	1.54E-08	7.06E-08	1.54E-10	8.62E-08	2.12E-09	9.65E-09	0.00E+00	1.18E-08	1.30E-09	4.44E-09	0.00E+00	5.74E-09
2508	420579.83	3734754.91	1.48E-08	6.77E-08	1.48E-10	8.26E-08	2.03E-09	9.25E-09	0.00E+00	1.13E-08	1.25E-09	4.25E-09	0.00E+00	5.50E-09
2509	420571.37	3734751.52	1.42E-08	6.50E-08	1.42E-10	7.94E-08	1.95E-09	8.89E-09	0.00E+00	1.08E-08	1.20E-09	4.09E-09	0.00E+00	5.28E-09
2510	420520.56	3734731.12	1.15E-08	5.25E-08	1.15E-10	6.41E-08	1.57E-09	7.18E-09	0.00E+00	8.75E-09	9.66E-10	3.30E-09	0.00E+00	4.27E-09
2511	420512.1	3734727.72	1.11E-08	5.06E-08	1.11E-10	6.18E-08	1.52E-09	6.93E-09	0.00E+00	8.44E-09	9.32E-10	3.18E-09	0.00E+00	4.11E-09
2512	420503.63	3734724.32	1.07E-08	4.88E-08	1.07E-10	5.96E-08	1.46E-09	6.68E-09	0.00E+00	8.14E-09	8.99E-10	3.07E-09	0.00E+00	3.97E-09
2513	420491.64	3734712.5	1.04E-08	4.77E-08	1.04E-10	5.83E-08	1.43E-09	6.53E-09	0.00E+00	7.96E-09	8.78E-10	3.00E-09	0.00E+00	3.88E-09
2514	420477.55	3734678.83	1.08E-08	4.96E-08	1.08E-10	6.05E-08	1.49E-09	6.78E-09	0.00E+00	8.27E-09	9.12E-10	3.12E-09	0.00E+00	4.03E-09
2515	420470.5	3734662	1.10E-08	5.01E-08	1.09E-10	6.11E-08	1.50E-09	6.85E-09	0.00E+00	8.35E-09	9.21E-10	3.15E-09	0.00E+00	4.07E-09
2516	420459.94	3734636.75	1.10E-08	5.03E-08	1.10E-10	6.14E-08	1.51E-09	6.88E-09	0.00E+00	8.39E-09	9.26E-10	3.16E-09	0.00E+00	4.09E-09
2517	420438.8	3734586.24	1.07E-08	4.90E-08	1.07E-10	5.98E-08	1.47E-09	6.69E-09	0.00E+00	8.16E-09	9.01E-10	3.08E-09	0.00E+00	3.98E-09
2518	420681.44	3734795.71	3.03E-08	1.38E-07	3.03E-10	1.69E-07	4.15E-09	1.89E-08	0.00E+00	2.31E-08	2.55E-09	8.70E-09	0.00E+00	1.12E-08
2519	420690.63	3734795.58	3.40E-08	1.56E-07	3.40E-10	1.90E-07	4.66E-09	2.13E-08	0.00E+00	2.59E-08	2.86E-09	9.78E-09	0.00E+00	1.26E-08
2520	420699.82	3734795.45	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.34E-09	2.43E-08	0.00E+00	2.97E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
2521	420709	3734795.31	4.46E-08	2.04E-07	4.45E-10	2.49E-07	6.11E-09	2.79E-08	0.00E+00	3.40E-08	3.75E-09	1.28E-08	0.00E+00	1.66E-08
2522	420736.56	3734794.91	6.60E-08	3.02E-07	6.60E-10	3.69E-07	9.05E-09	4.13E-08	0.00E+00	5.03E-08	5.55E-09	1.90E-08	0.00E+00	2.45E-08
2523	420673.37	3734812.35	2.47E-08	1.13E-07	2.46E-10	1.38E-07	3.38E-09	1.54E-08	0.00E+00	1.88E-08	2.07E-09	7.09E-09	0.00E+00	9.16E-09
2524	420598.15	3734782.15	1.46E-08	6.66E-08	1.46E-10	8.13E-08	2.00E-09	9.11E-09	0.00E+00	1.11E-08	1.23E-09	4.19E-09	0.00E+00	5.41E-09
2525	420589.79	3734778.79	1.39E-08	6.36E-08	1.39E-10	7.77E-08	1.91E-09	8.70E-09	0.00E+00	1.06E-08	1.17E-09	4.00E-09	0.00E+00	5.17E-09
2526	420573.07	3734772.08	1.28E-08	5.88E-08	1.28E-10	7.17E-08	1.76E-09	8.03E-09	0.00E+00	9.80E-09	1.08E-09	3.69E-09	0.00E+00	4.77E-09
2527	420556.35	3734765.37	1.20E-08	5.48E-08	1.20E-10	6.69E-08	1.64E-09	7.49E-09	0.00E+00	9.14E-09	1.01E-09	3.44E-09	0.00E+00	4.45E-09
2528	420477.64	3734726.85	9.05E-09	4.14E-08	9.05E-11	5.05E-08	1.24E-09	5.66E-09	0.00E+00	6.90E-09	7.61E-10	2.60E-09	0.00E+00	3.36E-09
2529	420470.69	3734710.23	9.24E-09	4.23E-08	9.24E-11	5.16E-08	1.27E-09	5.78E-09	0.00E+00	7.04E-09	7.77E-10	2.66E-09	0.00E+00	3.43E-09
2530	420463.74	3734693.62	9.38E-09	4.29E-08	9.37E-11	5.24E-08	1.29E-09	5.86E-09	0.00E+00	7.15E-09	7.89E-10	2.69E-09	0.00E+00	3.48E-09
2531	420435.92	3734627.14	9.50E-09	4.34E-08	9.49E-11	5.30E-08	1.30E-09	5.94E-09	0.00E+00	7.24E-09	7.99E-10	2.73E-09	0.00E+00	3.53E-09
2532	420681.73	3734815.71	2.65E-08	1.21E-07	2.65E-10	1.48E-07	3.63E-09	1.66E-08	0.00E+00	2.02E-08	2.23E-09	7.61E-09	0.00E+00	9.83E-09
2533	420690.92	3734815.58	2.95E-08	1.35E-07	2.95E-10	1.64E-07	4.04E-09	1.84E-08	0.00E+00	2.25E-08	2.48E-09	8.47E-09	0.00E+00	1.09E-08
2534	420700.11	3734815.44	3.33E-08	1.52E-07	3.33E-10	1.86E-07	4.57E-09	2.08E-08	0.00E+00	2.54E-08	2.80E-09	9.58E-09	0.00E+00	1.24E-08
2535	420709.29	3734815.31	3.77E-08	1.72E-07	3.77E-10	2.11E-07	5.17E-09	2.36E-08	0.00E+00	2.88E-08	3.17E-09	1.08E-08	0.00E+00	1.40E-08
2536	420736.85	3734814.91	5.50E-08	2.51E-07	5.50E-10	3.07E-07	7.54E-09	3.44E-08	0.00E+00	4.19E-08	4.63E-09	1.58E-08	0.00E+00	2.04E-08
2537	420673.76	3734832.39	2.18E-08	9.97E-08	2.18E-10	1.22E-07	2.99E-09	1.36E-08	0.00E+00	1.66E-08	1.83E-09	6.27E-09	0.00E+00	8.10E-09
2538	420657.22	3734825.75	1.93E-08	8.82E-08	1.93E-10	1.08E-07	2.64E-09	1.21E-08	0.00E+00	1.47E-08	1.62E-09	5.54E-09	0.00E+00	7.16E-09
2539	420607.62	3734805.83	1.38E-08	6.33E-08	1.38E-10	7.73E-08	1.90E-09	8.65E-09	0.00E+00	1.05E-08	1.16E-09	3.98E-09	0.00E+00	5.14E-09
2540	420591.09	3734799.2	1.26E-08	5.77E-08	1.26E-10	7.04E-08	1.73E-09	7.89E-09	0.00E+00	9.62E-09	1.06E-09	3.63E-09	0.00E+00	4.69E-09
2541	420574.55	3734792.56	1.17E-08	5.33E-08	1.17E-10	6.51E-08	1.60E-09	7.29E-09	0.00E+00	8.89E-09	9.81E-10	3.35E-09	0.00E+00	4.33E-09
2542	420558.02	3734785.92	1.09E-08	4.98E-08	1.09E-10	6.08E-08	1.49E-09	6.81E-09	0.00E+00	8.30E-09	9.16E-10	3.13E-09	0.00E+00	4.04E-09
2543	420541.49	3734779.28	1.02E-08	4.68E-08	1.02E-10	5.71E-08	1.40E-09	6.39E-09	0.00E+00	7.80E-09	8.61E-10	2.94E-09	0.00E+00	3.80E-09
2544	420508.42	3734766	9.11E-09	4.16E-08	9.10E-11	5.08E-08	1.25E-09	5.69E-09	0.00E+00	6.94E-09	7.66E-10	2.62E-09	0.00E+00	3.38E-09
2545	420491.88	3734759.36	8.59E-09	3.93E-08	8.58E-11	4.79E-08	1.18E-09	5.37E-09	0.00E+00	6.55E-09	7.22E-10	2.47E-09	0.00E+00	3.19E-09
2546	420475.35	3734752.73	8.08E-09	3.69E-08	8.07E-11	4.51E-08	1.11E-09	5.05E-09	0.00E+00	6.16E-09	6.79E-10	2.32E-09	0.00E+00	3.00E-09

2547	420449.89	3734708.32	8.19E-09	3.74E-08	8.18E-11	4.57E-08	1.12E-09	5.12E-09	0.00E+00	6.24E-09	6.89E-10	2.35E-09	0.00E+00	3.04E-09
2548	420443.01	3734691.88	8.23E-09	3.76E-08	8.23E-11	4.60E-08	1.13E-09	5.15E-09	0.00E+00	6.28E-09	6.93E-10	2.37E-09	0.00E+00	3.06E-09
2549	420436.13	3734675.44	8.27E-09	3.78E-08	8.26E-11	4.62E-08	1.13E-09	5.17E-09	0.00E+00	6.30E-09	6.96E-10	2.38E-09	0.00E+00	3.07E-09
2550	420408.62	3734609.7	8.16E-09	3.73E-08	8.15E-11	4.55E-08	1.12E-09	5.10E-09	0.00E+00	6.22E-09	6.86E-10	2.34E-09	0.00E+00	3.03E-09
2551	420401.74	3734593.27	8.03E-09	3.67E-08	8.02E-11	4.48E-08	1.10E-09	5.02E-09	0.00E+00	6.12E-09	6.75E-10	2.31E-09	0.00E+00	2.98E-09
2552	420394.86	3734576.83	7.87E-09	3.60E-08	7.86E-11	4.39E-08	1.08E-09	4.92E-09	0.00E+00	6.00E-09	6.62E-10	2.26E-09	0.00E+00	2.92E-09
2553	420691.21	3734835.58	2.57E-08	1.18E-07	2.57E-10	1.44E-07	3.52E-09	1.61E-08	0.00E+00	1.96E-08	2.16E-09	7.39E-09	0.00E+00	9.55E-09
2554	420700.4	3734835.44	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	0.00E+00	2.19E-08	2.42E-09	8.27E-09	0.00E+00	1.07E-08
2555	420709.58	3734835.31	3.23E-08	1.47E-07	3.22E-10	1.80E-07	4.42E-09	2.02E-08	0.00E+00	2.46E-08	2.71E-09	9.27E-09	0.00E+00	1.20E-08
2556	420737.14	3734834.91	4.61E-08	2.11E-07	4.60E-10	2.57E-07	6.32E-09	2.88E-08	0.00E+00	3.51E-08	3.88E-09	1.32E-08	0.00E+00	1.71E-08
2557	420674.2	3734872.33	1.69E-08	7.73E-08	1.69E-10	9.44E-08	2.32E-09	1.06E-08	0.00E+00	1.29E-08	1.42E-09	4.86E-09	0.00E+00	6.28E-09
2558	420665.8	3734868.96	1.59E-08	7.29E-08	1.59E-10	8.90E-08	2.19E-09	9.97E-09	0.00E+00	1.22E-08	1.34E-09	4.58E-09	0.00E+00	5.92E-09
2559	420657.4	3734865.59	1.51E-08	6.91E-08	1.51E-10	8.43E-08	2.07E-09	9.45E-09	0.00E+00	1.15E-08	1.27E-09	4.34E-09	0.00E+00	5.61E-09
2560	420649	3734862.21	1.44E-08	6.59E-08	1.44E-10	8.04E-08	1.98E-09	9.01E-09	0.00E+00	1.10E-08	1.21E-09	4.14E-09	0.00E+00	5.35E-09
2561	420640.6	3734858.84	1.38E-08	6.30E-08	1.38E-10	7.69E-08	1.89E-09	8.62E-09	0.00E+00	1.05E-08	1.16E-09	3.96E-09	0.00E+00	5.12E-09
2562	420607	3734845.35	1.13E-08	5.16E-08	1.13E-10	6.30E-08	1.55E-09	7.05E-09	0.00E+00	8.60E-09	9.49E-10	3.24E-09	0.00E+00	4.19E-09
2563	420598.6	3734841.98	1.08E-08	4.93E-08	1.08E-10	6.02E-08	1.48E-09	6.74E-09	0.00E+00	8.22E-09	9.07E-10	3.10E-09	0.00E+00	4.00E-09
2564	420590.2	3734838.6	1.03E-08	4.72E-08	1.03E-10	5.76E-08	1.42E-09	6.45E-09	0.00E+00	7.87E-09	8.69E-10	2.97E-09	0.00E+00	3.83E-09
2565	420581.8	3734835.23	9.92E-09	4.53E-08	9.91E-11	5.54E-08	1.36E-09	6.20E-09	0.00E+00	7.56E-09	8.34E-10	2.85E-09	0.00E+00	3.68E-09
2566	420573.4	3734831.86	9.56E-09	4.37E-08	9.55E-11	5.33E-08	1.31E-09	5.97E-09	0.00E+00	7.28E-09	8.04E-10	2.75E-09	0.00E+00	3.55E-09
2567	420565	3734828.49	9.23E-09	4.22E-08	9.23E-11	5.15E-08	1.27E-09	5.77E-09	0.00E+00	7.04E-09	7.77E-10	2.65E-09	0.00E+00	3.43E-09
2568	420556.6	3734825.11	8.93E-09	4.08E-08	8.93E-11	4.99E-08	1.22E-09	5.59E-09	0.00E+00	6.81E-09	7.52E-10	2.57E-09	0.00E+00	3.32E-09
2569	420539.8	3734818.37	8.41E-09	3.85E-08	8.41E-11	4.70E-08	1.15E-09	5.26E-09	0.00E+00	6.41E-09	7.08E-10	2.42E-09	0.00E+00	3.12E-09
2570	420531.4	3734814.99	8.19E-09	3.75E-08	8.19E-11	4.57E-08	1.12E-09	5.12E-09	0.00E+00	6.25E-09	6.89E-10	2.35E-09	0.00E+00	3.04E-09
2571	420523	3734811.62	7.98E-09	3.65E-08	7.98E-11	4.46E-08	1.09E-09	4.99E-09	0.00E+00	6.09E-09	6.72E-10	2.29E-09	0.00E+00	2.97E-09
2572	420497.8	3734801.5	7.40E-09	3.38E-08	7.40E-11	4.13E-08	1.01E-09	4.63E-09	0.00E+00	5.64E-09	6.23E-10	2.13E-09	0.00E+00	2.75E-09
2573	420489.4	3734798.13	7.22E-09	3.30E-08	7.22E-11	4.03E-08	9.90E-10	4.51E-09	0.00E+00	5.50E-09	6.07E-10	2.07E-09	0.00E+00	2.68E-09
2574	420481	3734794.76	7.04E-09	3.22E-08	7.03E-11	3.93E-08	9.65E-10	4.40E-09	0.00E+00	5.36E-09	5.92E-10	2.02E-09	0.00E+00	2.61E-09
2575	420472.6	3734791.39	6.85E-09	3.13E-08	6.85E-11	3.83E-08	9.40E-10	4.29E-09	0.00E+00	5.22E-09	5.77E-10	1.97E-09	0.00E+00	2.55E-09
2576	420464.2	3734788.01	6.67E-09	3.05E-08	6.67E-11	3.72E-08	9.15E-10	4.17E-09	0.00E+00	5.09E-09	5.61E-10	1.92E-09	0.00E+00	2.48E-09
2577	420455.8	3734784.64	6.49E-09	2.97E-08	6.49E-11	3.62E-08	8.90E-10	4.06E-09	0.00E+00	4.95E-09	5.46E-10	1.86E-09	0.00E+00	2.41E-09
2578	420447.4	3734781.27	6.31E-09	2.88E-08	6.30E-11	3.52E-08	8.65E-10	3.94E-09	0.00E+00	4.81E-09	5.31E-10	1.81E-09	0.00E+00	2.34E-09
2579	420435.51	3734769.54	6.19E-09	2.83E-08	6.19E-11	3.46E-08	8.49E-10	3.87E-09	0.00E+00	4.72E-09	5.21E-10	1.78E-09	0.00E+00	2.30E-09
2580	420411.05	3734711.09	6.48E-09	2.96E-08	6.47E-11	3.62E-08	8.88E-10	4.05E-09	0.00E+00	4.94E-09	5.45E-10	1.86E-09	0.00E+00	2.41E-09
2581	420404.06	3734694.39	6.50E-09	2.97E-08	6.50E-11	3.63E-08	8.91E-10	4.06E-09	0.00E+00	4.95E-09	5.47E-10	1.87E-09	0.00E+00	2.41E-09
2582	420400.57	3734686.04	6.50E-09	2.97E-08	6.50E-11	3.63E-08	8.91E-10	4.06E-09	0.00E+00	4.96E-09	5.47E-10	1.87E-09	0.00E+00	2.41E-09
2583	420379.6	3734635.94	6.40E-09	2.93E-08	6.40E-11	3.57E-08	8.77E-10	4.00E-09	0.00E+00	4.88E-09	5.38E-10	1.84E-09	0.00E+00	2.38E-09
2584	420376.11	3734627.59	6.36E-09	2.91E-08	6.36E-11	3.55E-08	8.73E-10	3.98E-09	0.00E+00	4.85E-09	5.35E-10	1.83E-09	0.00E+00	2.36E-09
2585	420369.12	3734610.89	6.28E-09	2.87E-08	6.28E-11	3.51E-08	8.61E-10	3.93E-09	0.00E+00	4.79E-09	5.28E-10	1.80E-09	0.00E+00	2.33E-09
2586	420365.62	3734602.54	6.23E-09	2.85E-08	6.23E-11	3.48E-08	8.54E-10	3.89E-09	0.00E+00	4.75E-09	5.24E-10	1.79E-09	0.00E+00	2.31E-09
2587	420358.64	3734585.84	6.11E-09	2.80E-08	6.11E-11	3.41E-08	8.38E-10	3.82E-09	0.00E+00	4.66E-09	5.14E-10	1.76E-09	0.00E+00	2.27E-09
2588	420682.6	3734875.7	1.80E-08	8.21E-08	1.80E-10	1.00E-07	2.46E-09	1.12E-08	0.00E+00	1.37E-08	1.51E-09	5.16E-09	0.00E+00	6.67E-09
2589	420691.79	3734875.57	1.98E-08	9.03E-08	1.97E-10	1.10E-07	2.71E-09	1.23E-08	0.00E+00	1.51E-08	1.66E-09	5.68E-09	0.00E+00	7.34E-09
2590	420700.98	3734875.44	2.19E-08	1.00E-07	2.19E-10	1.22E-07	3.00E-09	1.37E-08	0.00E+00	1.67E-08	1.84E-09	6.29E-09	0.00E+00	8.14E-09
2591	420710.16	3734875.3	2.43E-08	1.11E-07	2.43E-10	1.36E-07	3.33E-09	1.52E-08	0.00E+00	1.85E-08	2.05E-09	6.99E-09	0.00E+00	9.03E-09
2592	420737.72	3734874.9	3.35E-08	1.53E-07	3.35E-10	1.87E-07	4.59E-09	2.09E-08	0.00E+00	2.55E-08	2.82E-09	9.62E-09	0.00E+00	1.24E-08
2593	420674.68	3734912.28	1.34E-08	6.14E-08	1.34E-10	7.49E-08	1.84E-09	8.39E-09	0.00E+00	1.02E-08	1.13E-09	3.86E-09	0.00E+00	4.99E-09
2594	420666.17	3734908.87	1.27E-08	5.78E-08	1.26E-10	7.06E-08	1.73E-09	7.91E-09	0.00E+00	9.64E-09	1.06E-09	3.63E-09	0.00E+00	4.70E-09
2595	420657.66	3734905.45	1.20E-08	5.49E-08	1.20E-10	6.70E-08	1.64E-09	7.50E-09	0.00E+00	9.15E-09	1.01E-09	3.45E-09	0.00E+00	4.46E-09
2596	420649.15	3734902.04	1.15E-08	5.24E-08	1.15E-10	6.40E-08	1.57E-09	7.17E-09	0.00E+00	8.74E-09	9.65E-10	3.29E-09	0.00E+00	4.26E-09
2597	420640.64	3734898.62	1.10E-08	5.03E-08	1.10E-10	6.14E-08	1.51E-09	6.87E-09	0.00E+00	8.38E-09	9.25E-10	3.16E-09	0.00E+00	4.08E-09
2598	420632.14	3734895.2	1.06E-08	4.83E-08	1.06E-10	5.90E-08	1.45E-09	6.61E-09	0.00E+00	8.06E-09	8.90E-10	3.04E-09	0.00E+00	3.93E-09
2599	420623.63	3734891.79	1.02E-08	4.65E-08	1.02E-10	5.68E-08	1.40E-09	6.36E-09	0.00E+00	7.76E-09	8.56E-10	2.92E-09	0.00E+00	3.78E-09
2600	420389.69	3734755.64	5.14E-09	2.35E-08	5.14E-11	2.87E-08	7.05E-10	3.22E-09	0.00E+00	3.92E-09	4.33E-10	1.48E-09	0.00E+00	1.91E-09
2601	420386.15	3734747.18	5.17E-09	2.36E-08	5.16E-11	2.88E-08	7.08E-10	3.23E-09	0.00E+00	3.94E-09	4.35E-10	1.48E-09	0.00E+00	1.92E-09
2602	420382.61	3734738.72	5.18E-09	2.37E-08	5.18E-11	2.89E-08	7.10E-10	3.24E-09	0.00E+00	3.95E-09	4.36E-10	1.49E-09	0.00E+00	1.92E-09
2603	420379.07	3734730.26	5.19E-09	2.37E-08	5.19E-11	2.90E-08	7.12E-10	3.25E-09	0.00E+00	3.96E-09	4.37E-10	1.49E-09	0.00E+00	1.93E-09
2604	420375.53	3734721.81	5.20E-09	2.38E-08	5.20E-11	2.90E-08	7.13E-10	3.25E-09	0.00E+00	3.96E-09	4.37E-10	1.49E-09	0.00E+00	1.93E-09
2605	420371.99	3734713.35	5.20E-09	2.38E-08	5.20E-11	2.90E-08	7.13E-10	3.25E-09	0.00E+00	3.96E-09	4.37E-10	1.49E-09	0.00E+00	1.93E-09
2606	420350.76	3734662.6	5.14E-09	2.35E-08	5.13E-11	2.87E-08	7.04E-10	3.21E-09	0.00E+00	3.92E-09	4.32E-10	1.48E-09	0.00E+00	1.91E-09
2607	420343.68	3734645.69	5.09E-09	2.33E-08	5.09E-11	2.84E-08	6.98E-10	3.18E-09	0.00E+00	3.88E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
2608	420340.14	3734637.23	5.06E-09	2.31E-08	5.06E-11	2.83E-08	6.94E-10	3.16E-09	0.00E+00	3.86E-09	4.26E-10	1.45E-09	0.00E+00	1.88E-09
2609	420336.6	3734628.77	5.03E-09	2.30E-08	5.03E-11	2.81E-08	6.90E-10	3.14E-09	0.00E+00	3.83E-09	4.23E-10	1.45E-09	0.00E+00	1.87E-09
2610	420333.06	3734620.32	4.99E-09	2.28E-08	4.99E-11	2.79E-08	6.85E-10	3.12E-09	0.00E+00	3.81E-09	4.20E-10	1.44E-09	0.00E+00	1.86E-09
2611	420683.18	3734915.7	1.43E-08	6.53E-08	1.43E-10	7.97E-08	1.96E-09	8.93E-09	0.00E+00	1.09E-08	1.20E-09	4.10E-09	0.00E+00	5.30E-09
2612	420692.37	3734915.57	1.56E-08	7.13E-08	1.56E-10	8.70E-08	2.14E-09	9.75E-09	0.00E+00	1.19E-08	1.31E-09	4.48E-09	0.00E+00	5.79E-09
2613	420701.56	3734915.43	1.72E-08	7.85E-08	1.72E-10	9.59E-08	2.35E-09	1.07E-08	0.00E+00	1.31E-08	1.45E-09	4.94E-09	0.00E+00	6.38E-09
2614	420710.74	3734915.3	1.89E-08	8.66E-08	1.89E-10	1.06E-07	2.60E-09	1.18E-08	0.00E+00	1.44E-08	1.59E-09	5.44E-09	0.00E+00	7.04E-09
2615	420738.3	3734914.9	2.57E-08	1.18E-07	2.57E-10	1.44E-07	3.53E-09	1.61E-08	0.00E+00	1.96E-08	2.16E-09	7.39E-09	0.00E+00	9.56E-09
2616	420675.41	3734952.34	1.14E-08	5.23E-08	1.14E-10	6.38E-08	1.57E-09	7.15E-09	0.00E+00	8.71E-09	9.62E-10	3.28E-09	0.00E+00	4.25E-09
2617	420658.69	3734945.63	1.03E-08	4.69E-08	1.03E-10	5.73E-08	1.41E-09	6.42E-09	0.00E+00	7.82E-09	8.63E-10	2.95E-09	0.00E+00	3.81E-09
2618	420650.33	3734942.27	9.79E-09	4.48E-08	9.78E-11	5.46E-08	1.34E-09	6.12E-09	0.00E+00	7.46E-09	8.24E-10	2.81E-09	0.00E+00	3.64E-09
2619	420633.61	3734935.56	8.97E-09	4.10E-08	8.97E-11	5.01E-08	1.23E-09	5.61E-09	0.00E+00	6.84E-09	7.55E-10	2.58E-09	0.00E+00	3.33E-09
2620	420616.89	3734928.85	8.25E-09	3.77E-08	8.25E-11	4.61E-08	1.13E-09	5.16E-09	0.00E+00	6.29E-09	6.94E-10	2.37E-09	0.00E+00	3.07E-09
2621	420575.1	3734912.06	6.81E-09	3.11E-08	6.80E-11	3.80E-08	9.33E-10	4.25E-09	0.00E+00	5.19E-09	5.73E-10	1.96E-09	0.00E+00	2.53E-09

2622	420558.38	3734905.35	6.39E-09	2.92E-08	6.38E-11	3.56E-08	8.75E-10	3.99E-09	0.00E+00	4.87E-09	5.37E-10	1.83E-09	0.00E+00	2.37E-09
2623	420541.67	3734898.64	6.04E-09	2.76E-08	6.03E-11	3.37E-08	8.28E-10	3.77E-09	0.00E+00	4.60E-09	5.08E-10	1.74E-09	0.00E+00	2.24E-09
2624	420533.31	3734895.28	5.89E-09	2.69E-08	5.88E-11	3.29E-08	8.07E-10	3.68E-09	0.00E+00	4.49E-09	4.95E-10	1.69E-09	0.00E+00	2.19E-09
2625	420516.59	3734888.57	5.62E-09	2.57E-08	5.61E-11	3.14E-08	7.70E-10	3.51E-09	0.00E+00	4.28E-09	4.73E-10	1.61E-09	0.00E+00	2.09E-09
2626	420499.87	3734881.86	5.39E-09	2.46E-08	5.38E-11	3.01E-08	7.38E-10	3.37E-09	0.00E+00	4.10E-09	4.53E-10	1.55E-09	0.00E+00	2.00E-09
2627	420458.08	3734865.08	4.87E-09	2.23E-08	4.87E-11	2.72E-08	6.68E-10	3.05E-09	0.00E+00	3.72E-09	4.10E-10	1.40E-09	0.00E+00	1.81E-09
2628	420441.36	3734858.37	4.68E-09	2.14E-08	4.68E-11	2.61E-08	6.42E-10	2.93E-09	0.00E+00	3.57E-09	3.94E-10	1.34E-09	0.00E+00	1.74E-09
2629	420399.57	3734841.58	4.20E-09	1.92E-08	4.20E-11	2.34E-08	5.76E-10	2.63E-09	0.00E+00	3.20E-09	3.53E-10	1.21E-09	0.00E+00	1.56E-09
2630	420351.55	3734760.09	4.22E-09	1.93E-08	4.22E-11	2.36E-08	5.79E-10	2.64E-09	0.00E+00	3.22E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
2631	420344.6	3734743.47	4.23E-09	1.94E-08	4.23E-11	2.36E-08	5.80E-10	2.65E-09	0.00E+00	3.23E-09	3.56E-10	1.22E-09	0.00E+00	1.57E-09
2632	420320.26	3734685.31	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	0.00E+00	3.19E-09	3.53E-10	1.20E-09	0.00E+00	1.56E-09
2633	420313.3	3734668.69	4.16E-09	1.90E-08	4.16E-11	2.32E-08	5.70E-10	2.60E-09	0.00E+00	3.17E-09	3.50E-10	1.20E-09	0.00E+00	1.55E-09
2634	420683.77	3734955.7	1.21E-08	5.53E-08	1.21E-10	6.75E-08	1.66E-09	7.56E-09	0.00E+00	9.22E-09	1.02E-09	3.48E-09	0.00E+00	4.49E-09
2635	420692.95	3734955.56	1.31E-08	5.99E-08	1.31E-10	7.31E-08	1.80E-09	8.19E-09	0.00E+00	9.99E-09	1.10E-09	3.77E-09	0.00E+00	4.87E-09
2636	420702.14	3734955.43	1.42E-08	6.51E-08	1.42E-10	7.95E-08	1.95E-09	8.90E-09	0.00E+00	1.09E-08	1.20E-09	4.09E-09	0.00E+00	5.29E-09
2637	420711.33	3734955.3	1.55E-08	7.07E-08	1.55E-10	8.64E-08	2.12E-09	9.67E-09	0.00E+00	1.18E-08	1.30E-09	4.45E-09	0.00E+00	5.75E-09
2638	420729.7	3734955.03	1.85E-08	8.44E-08	1.85E-10	1.03E-07	2.53E-09	1.15E-08	0.00E+00	1.41E-08	1.55E-09	5.31E-09	0.00E+00	6.86E-09
2639	420738.89	3734954.9	2.03E-08	9.26E-08	2.02E-10	1.13E-07	2.78E-09	1.27E-08	0.00E+00	1.54E-08	1.70E-09	5.82E-09	0.00E+00	7.52E-09
2640	420675.89	3734992.3	9.76E-09	4.46E-08	9.76E-11	5.45E-08	1.34E-09	6.10E-09	0.00E+00	7.44E-09	8.21E-10	2.81E-09	0.00E+00	3.63E-09
2641	420667.44	3734988.91	9.26E-09	4.23E-08	9.25E-11	5.17E-08	1.27E-09	5.79E-09	0.00E+00	7.06E-09	7.79E-10	2.66E-09	0.00E+00	3.44E-09
2642	420658.99	3734985.51	8.78E-09	4.01E-08	8.77E-11	4.90E-08	1.20E-09	5.49E-09	0.00E+00	6.69E-09	7.38E-10	2.52E-09	0.00E+00	3.26E-09
2643	420650.54	3734982.12	8.32E-09	3.80E-08	8.32E-11	4.64E-08	1.14E-09	5.20E-09	0.00E+00	6.34E-09	7.00E-10	2.39E-09	0.00E+00	3.09E-09
2644	420642.09	3734978.73	7.90E-09	3.61E-08	7.90E-11	4.41E-08	1.08E-09	4.94E-09	0.00E+00	6.03E-09	6.65E-10	2.27E-09	0.00E+00	2.94E-09
2645	420633.64	3734975.33	7.53E-09	3.44E-08	7.52E-11	4.20E-08	1.03E-09	4.71E-09	0.00E+00	5.74E-09	6.33E-10	2.16E-09	0.00E+00	2.80E-09
2646	420625.19	3734971.94	7.24E-09	3.31E-08	7.24E-11	4.04E-08	9.93E-10	4.53E-09	0.00E+00	5.52E-09	6.09E-10	2.08E-09	0.00E+00	2.69E-09
2647	420616.74	3734968.55	7.03E-09	3.21E-08	7.03E-11	3.92E-08	9.64E-10	4.40E-09	0.00E+00	5.36E-09	5.92E-10	2.02E-09	0.00E+00	2.61E-09
2648	420608.29	3734965.15	6.76E-09	3.09E-08	6.76E-11	3.78E-08	9.27E-10	4.23E-09	0.00E+00	5.16E-09	5.69E-10	1.94E-09	0.00E+00	2.51E-09
2649	420599.84	3734961.76	6.50E-09	2.97E-08	6.50E-11	3.63E-08	8.91E-10	4.06E-09	0.00E+00	4.95E-09	5.47E-10	1.87E-09	0.00E+00	2.41E-09
2650	420591.39	3734958.37	6.25E-09	2.86E-08	6.25E-11	3.49E-08	8.57E-10	3.91E-09	0.00E+00	4.77E-09	5.26E-10	1.80E-09	0.00E+00	2.32E-09
2651	420557.59	3734944.8	5.47E-09	2.50E-08	5.46E-11	3.05E-08	7.49E-10	3.42E-09	0.00E+00	4.17E-09	4.60E-10	1.57E-09	0.00E+00	2.03E-09
2652	420549.13	3734941.4	5.31E-09	2.43E-08	5.31E-11	2.96E-08	7.28E-10	3.32E-09	0.00E+00	4.05E-09	4.47E-10	1.53E-09	0.00E+00	1.97E-09
2653	420540.68	3734938.01	5.14E-09	2.35E-08	5.14E-11	2.87E-08	7.04E-10	3.21E-09	0.00E+00	3.92E-09	4.32E-10	1.48E-09	0.00E+00	1.91E-09
2654	420532.23	3734934.62	5.00E-09	2.29E-08	5.00E-11	2.79E-08	6.85E-10	3.13E-09	0.00E+00	3.81E-09	4.21E-10	1.44E-09	0.00E+00	1.86E-09
2655	420523.78	3734931.22	4.87E-09	2.23E-08	4.87E-11	2.72E-08	6.68E-10	3.05E-09	0.00E+00	3.72E-09	4.10E-10	1.40E-09	0.00E+00	1.81E-09
2656	420515.33	3734927.83	4.76E-09	2.18E-08	4.76E-11	2.66E-08	6.52E-10	2.98E-09	0.00E+00	3.63E-09	4.00E-10	1.37E-09	0.00E+00	1.77E-09
2657	420506.88	3734924.44	4.66E-09	2.13E-08	4.66E-11	2.60E-08	6.39E-10	2.91E-09	0.00E+00	3.55E-09	3.92E-10	1.34E-09	0.00E+00	1.73E-09
2658	420498.43	3734921.04	4.58E-09	2.10E-08	4.58E-11	2.56E-08	6.28E-10	2.86E-09	0.00E+00	3.49E-09	3.86E-10	1.32E-09	0.00E+00	1.70E-09
2659	420489.98	3734917.65	4.50E-09	2.06E-08	4.50E-11	2.51E-08	6.17E-10	2.82E-09	0.00E+00	3.43E-09	3.79E-10	1.29E-09	0.00E+00	1.67E-09
2660	420481.53	3734914.26	4.43E-09	2.02E-08	4.42E-11	2.47E-08	6.07E-10	2.77E-09	0.00E+00	3.37E-09	3.72E-10	1.27E-09	0.00E+00	1.64E-09
2661	420473.08	3734910.86	4.36E-09	1.99E-08	4.36E-11	2.43E-08	5.98E-10	2.73E-09	0.00E+00	3.32E-09	3.67E-10	1.25E-09	0.00E+00	1.62E-09
2662	420456.18	3734904.08	4.22E-09	1.93E-08	4.22E-11	2.36E-08	5.79E-10	2.64E-09	0.00E+00	3.22E-09	3.55E-10	1.21E-09	0.00E+00	1.57E-09
2663	420447.73	3734900.68	4.15E-09	1.90E-08	4.14E-11	2.31E-08	5.68E-10	2.59E-09	0.00E+00	3.16E-09	3.49E-10	1.19E-09	0.00E+00	1.54E-09
2664	420439.28	3734897.29	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	0.00E+00	3.10E-09	3.42E-10	1.17E-09	0.00E+00	1.51E-09
2665	420430.83	3734893.9	3.98E-09	1.82E-08	3.98E-11	2.22E-08	5.46E-10	2.49E-09	0.00E+00	3.04E-09	3.35E-10	1.14E-09	0.00E+00	1.48E-09
2666	420422.38	3734890.51	3.90E-09	1.78E-08	3.90E-11	2.18E-08	5.35E-10	2.44E-09	0.00E+00	2.98E-09	3.28E-10	1.12E-09	0.00E+00	1.45E-09
2667	420351.25	3734854.96	3.34E-09	1.53E-08	3.34E-11	1.86E-08	4.58E-10	2.09E-09	0.00E+00	2.55E-09	2.81E-10	9.60E-10	0.00E+00	1.24E-09
2668	420330.16	3734804.56	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.17E-09	0.00E+00	2.65E-09	2.93E-10	9.99E-10	0.00E+00	1.29E-09
2669	420323.13	3734787.76	3.50E-09	1.60E-08	3.50E-11	1.95E-08	4.79E-10	2.19E-09	0.00E+00	2.67E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
2670	420319.62	3734779.36	3.50E-09	1.60E-08	3.50E-11	1.96E-08	4.80E-10	2.19E-09	0.00E+00	2.67E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
2671	420291.49	3734712.15	3.48E-09	1.59E-08	3.48E-11	1.95E-08	4.78E-10	2.18E-09	0.00E+00	2.66E-09	2.93E-10	1.00E-09	0.00E+00	1.29E-09
2672	420287.98	3734703.75	3.48E-09	1.59E-08	3.47E-11	1.94E-08	4.77E-10	2.17E-09	0.00E+00	2.65E-09	2.92E-10	9.99E-10	0.00E+00	1.29E-09
2673	420284.46	3734695.35	3.47E-09	1.58E-08	3.46E-11	1.93E-08	4.75E-10	2.17E-09	0.00E+00	2.64E-09	2.92E-10	9.96E-10	0.00E+00	1.29E-09
2674	420277.43	3734678.55	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.88E-10	0.00E+00	1.28E-09
2675	420684.35	3734995.69	1.03E-08	4.71E-08	1.03E-10	5.76E-08	1.41E-09	6.45E-09	0.00E+00	7.86E-09	8.67E-10	2.96E-09	0.00E+00	3.83E-09
2676	420693.53	3734995.56	1.11E-08	5.08E-08	1.11E-10	6.20E-08	1.52E-09	6.95E-09	0.00E+00	8.47E-09	9.35E-10	3.19E-09	0.00E+00	4.13E-09
2677	420702.72	3734995.42	1.20E-08	5.48E-08	1.20E-10	6.70E-08	1.64E-09	7.50E-09	0.00E+00	9.14E-09	1.01E-09	3.45E-09	0.00E+00	4.46E-09
2678	420711.91	3734995.29	1.30E-08	5.92E-08	1.29E-10	7.23E-08	1.78E-09	8.10E-09	0.00E+00	9.87E-09	1.09E-09	3.72E-09	0.00E+00	4.81E-09
2679	420730.28	3734995.02	1.51E-08	6.92E-08	1.51E-10	8.45E-08	2.07E-09	9.46E-09	0.00E+00	1.15E-08	1.27E-09	4.35E-09	0.00E+00	5.62E-09
2680	420739.47	3734994.89	1.64E-08	7.48E-08	1.63E-10	9.13E-08	2.24E-09	1.02E-08	0.00E+00	1.25E-08	1.38E-09	4.70E-09	0.00E+00	6.07E-09
2681	420676.6	3735032.34	8.28E-09	3.78E-08	8.27E-11	4.62E-08	1.13E-09	5.17E-09	0.00E+00	6.31E-09	6.96E-10	2.38E-09	0.00E+00	3.07E-09
2682	420659.93	3735025.65	7.54E-09	3.45E-08	7.53E-11	4.21E-08	1.03E-09	4.71E-09	0.00E+00	5.75E-09	6.34E-10	2.17E-09	0.00E+00	2.80E-09
2683	420651.6	3735022.31	7.19E-09	3.29E-08	7.19E-11	4.01E-08	9.86E-10	4.50E-09	0.00E+00	5.48E-09	6.05E-10	2.07E-09	0.00E+00	2.67E-09
2684	420634.94	3735015.62	6.55E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	0.00E+00	4.99E-09	5.51E-10	1.88E-09	0.00E+00	2.43E-09
2685	420618.28	3735008.93	6.11E-09	2.79E-08	6.11E-11	3.41E-08	8.38E-10	3.82E-09	0.00E+00	4.66E-09	5.14E-10	1.76E-09	0.00E+00	2.27E-09
2686	420609.95	3735005.58	5.88E-09	2.69E-08	5.87E-11	3.28E-08	8.05E-10	3.67E-09	0.00E+00	4.48E-09	4.94E-10	1.69E-09	0.00E+00	2.18E-09
2687	420593.28	3734998.89	5.46E-09	2.50E-08	5.46E-11	3.05E-08	7.48E-10	3.41E-09	0.00E+00	4.16E-09	4.59E-10	1.57E-09	0.00E+00	2.03E-09
2688	420584.95	3734995.55	5.27E-09	2.41E-08	5.27E-11	2.94E-08	7.23E-10	3.30E-09	0.00E+00	4.02E-09	4.44E-10	1.52E-09	0.00E+00	1.96E-09
2689	420543.3	3734978.82	4.53E-09	2.07E-08	4.53E-11	2.53E-08	6.22E-10	2.83E-09	0.00E+00	3.46E-09	3.81E-10	1.30E-09	0.00E+00	1.68E-09
2690	420526.64	3734972.13	4.30E-09	1.97E-08	4.30E-11	2.40E-08	5.89E-10	2.69E-09	0.00E+00	3.28E-09	3.62E-10	1.24E-09	0.00E+00	1.60E-09
2691	420518.31	3734968.79	4.17E-09	1.91E-08	4.17E-11	2.33E-08	5.71E-10	2.61E-09	0.00E+00	3.18E-09	3.51E-10	1.20E-09	0.00E+00	1.55E-09
2692	420501.64	3734962.1	3.99E-09	1.82E-08	3.98E-11	2.22E-08	5.46E-10	2.49E-09	0.00E+00	3.04E-09	3.35E-10	1.15E-09	0.00E+00	1.48E-09
2693	420484.98	3734955.41	3.86E-09	1.76E-08	3.86E-11	2.15E-08	5.29E-10	2.41E-09	0.00E+00	2.94E-09	3.25E-10	1.11E-09	0.00E+00	1.43E-09
2694	420476.65	3734952.06	3.81E-09	1.74E-08	3.81E-11	2.13E-08	5.22E-10	2.38E-09	0.00E+00	2.90E-09	3.20E-10	1.09E-09	0.00E+00	1.41E-09
2695	420459.99	3734945.37	3.72E-09	1.70E-08	3.72E-11	2.08E-08	5.10E-10	2.33E-09	0.00E+00	2.84E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
2696	420434.99	3734935.34	3.55E-09	1.62E-08	3.54E-11	1.98E-08	4.86E-10	2.22E-09	0.00E+00	2.70E-09	2.98E-10	1.02E-09	0.00E+00	1.32E-09

2697	420418.33	3734928.65	3.41E-09	1.56E-08	3.41E-11	1.90E-08	4.68E-10	2.13E-09	0.00E+00	2.60E-09	2.87E-10	9.80E-10	0.00E+00	1.27E-09
2698	420410	3734925.3	3.35E-09	1.53E-08	3.35E-11	1.87E-08	4.59E-10	2.09E-09	0.00E+00	2.55E-09	2.82E-10	9.62E-10	0.00E+00	1.24E-09
2699	420323.23	3734883.57	2.83E-09	1.29E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	0.00E+00	2.16E-09	2.38E-10	8.13E-10	0.00E+00	1.05E-09
2700	420302.43	3734833.88	2.93E-09	1.34E-08	2.92E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.41E-10	0.00E+00	1.09E-09
2701	420298.97	3734825.6	2.93E-09	1.34E-08	2.93E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.41E-10	0.00E+00	1.09E-09
2702	420292.04	3734809.03	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	0.00E+00	2.24E-09	2.47E-10	8.43E-10	0.00E+00	1.09E-09
2703	420285.1	3734792.47	2.94E-09	1.34E-08	2.94E-11	1.64E-08	4.03E-10	1.84E-09	0.00E+00	2.24E-09	2.47E-10	8.45E-10	0.00E+00	1.09E-09
2704	420253.91	3734717.94	2.92E-09	1.33E-08	2.92E-11	1.63E-08	4.00E-10	1.82E-09	0.00E+00	2.23E-09	2.46E-10	8.39E-10	0.00E+00	1.08E-09
2705	420246.98	3734701.37	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.98E-10	1.81E-09	0.00E+00	2.21E-09	2.44E-10	8.34E-10	0.00E+00	1.08E-09
2706	420222.72	3734643.4	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.83E-10	1.75E-09	0.00E+00	2.13E-09	2.35E-10	8.04E-10	0.00E+00	1.04E-09
2707	420219.26	3734635.12	2.78E-09	1.27E-08	2.78E-11	1.55E-08	3.81E-10	1.74E-09	0.00E+00	2.12E-09	2.34E-10	7.98E-10	0.00E+00	1.03E-09
2708	420684.93	3735035.69	8.68E-09	3.97E-08	8.67E-11	4.84E-08	1.19E-09	5.43E-09	0.00E+00	6.62E-09	7.30E-10	2.49E-09	0.00E+00	3.22E-09
2709	420694.11	3735035.55	9.31E-09	4.25E-08	9.30E-11	5.19E-08	1.28E-09	5.82E-09	0.00E+00	7.09E-09	7.83E-10	2.67E-09	0.00E+00	3.46E-09
2710	420703.3	3735035.42	9.99E-09	4.57E-08	9.98E-11	5.57E-08	1.37E-09	6.24E-09	0.00E+00	7.61E-09	8.40E-10	2.87E-09	0.00E+00	3.71E-09
2711	420712.49	3735035.29	1.07E-08	4.90E-08	1.07E-10	5.99E-08	1.47E-09	6.71E-09	0.00E+00	8.18E-09	9.02E-10	3.08E-09	0.00E+00	3.98E-09
2712	420730.86	3735035.02	1.24E-08	5.66E-08	1.24E-10	6.91E-08	1.70E-09	7.74E-09	0.00E+00	9.44E-09	1.04E-09	3.56E-09	0.00E+00	4.60E-09
2713	420677.1	3735072.31	7.01E-09	3.21E-08	7.01E-11	3.91E-08	9.61E-10	4.38E-09	0.00E+00	5.34E-09	5.90E-10	2.01E-09	0.00E+00	2.60E-09
2714	420668.69	3735068.93	6.72E-09	3.07E-08	6.72E-11	3.75E-08	9.21E-10	4.20E-09	0.00E+00	5.12E-09	5.65E-10	1.93E-09	0.00E+00	2.50E-09
2715	420660.27	3735065.55	6.45E-09	2.95E-08	6.44E-11	3.60E-08	8.84E-10	4.03E-09	0.00E+00	4.91E-09	5.42E-10	1.85E-09	0.00E+00	2.39E-09
2716	420651.86	3735062.17	6.19E-09	2.83E-08	6.18E-11	3.45E-08	8.48E-10	3.87E-09	0.00E+00	4.72E-09	5.21E-10	1.78E-09	0.00E+00	2.30E-09
2717	420643.45	3735058.8	5.94E-09	2.71E-08	5.93E-11	3.31E-08	8.14E-10	3.71E-09	0.00E+00	4.52E-09	4.99E-10	1.71E-09	0.00E+00	2.20E-09
2718	420635.04	3735055.42	5.70E-09	2.60E-08	5.69E-11	3.18E-08	7.81E-10	3.56E-09	0.00E+00	4.34E-09	4.79E-10	1.64E-09	0.00E+00	2.12E-09
2719	420626.63	3735052.04	5.50E-09	2.52E-08	5.50E-11	3.07E-08	7.54E-10	3.44E-09	0.00E+00	4.19E-09	4.63E-10	1.58E-09	0.00E+00	2.04E-09
2720	420618.22	3735048.67	5.31E-09	2.43E-08	5.30E-11	2.96E-08	7.27E-10	3.32E-09	0.00E+00	4.04E-09	4.46E-10	1.52E-09	0.00E+00	1.97E-09
2721	420609.81	3735045.29	5.11E-09	2.34E-08	5.11E-11	2.85E-08	7.01E-10	3.20E-09	0.00E+00	3.90E-09	4.30E-10	1.47E-09	0.00E+00	1.90E-09
2722	420270.62	3734853.45	2.51E-09	1.15E-08	2.50E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.20E-10	0.00E+00	9.31E-10
2723	420267.12	3734845.09	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.22E-10	0.00E+00	9.33E-10
2724	420260.13	3734828.37	2.52E-09	1.15E-08	2.52E-11	1.41E-08	3.45E-10	1.57E-09	0.00E+00	1.92E-09	2.12E-10	7.23E-10	0.00E+00	9.35E-10
2725	420232.14	3734761.48	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.21E-10	0.00E+00	9.32E-10
2726	420228.64	3734753.12	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.19E-10	0.00E+00	9.30E-10
2727	420218.14	3734728.04	2.48E-09	1.14E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.14E-10	0.00E+00	9.23E-10
2728	420193.65	3734669.51	2.41E-09	1.10E-08	2.41E-11	1.34E-08	3.30E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.92E-10	0.00E+00	8.95E-10
2729	420186.65	3734652.79	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	0.00E+00	1.81E-09	2.00E-10	6.84E-10	0.00E+00	8.84E-10
2730	420179.66	3734636.07	2.35E-09	1.07E-08	2.35E-11	1.31E-08	3.22E-10	1.47E-09	0.00E+00	1.79E-09	1.98E-10	6.75E-10	0.00E+00	8.72E-10
2731	420685.51	3735075.68	7.32E-09	3.35E-08	7.32E-11	4.09E-08	1.00E-09	4.58E-09	0.00E+00	5.58E-09	6.16E-10	2.10E-09	0.00E+00	2.72E-09
2732	420694.69	3735075.55	7.81E-09	3.57E-08	7.80E-11	4.36E-08	1.07E-09	4.88E-09	0.00E+00	5.95E-09	6.57E-10	2.24E-09	0.00E+00	2.90E-09
2733	420703.88	3735075.42	8.34E-09	3.81E-08	8.34E-11	4.66E-08	1.14E-09	5.21E-09	0.00E+00	6.36E-09	7.02E-10	2.40E-09	0.00E+00	3.10E-09
2734	420731.44	3735075.02	1.02E-08	4.66E-08	1.02E-10	5.69E-08	1.40E-09	6.37E-09	0.00E+00	7.77E-09	8.58E-10	2.93E-09	0.00E+00	3.79E-09
2735	420740.63	3735074.88	1.09E-08	4.99E-08	1.09E-10	6.09E-08	1.49E-09	6.82E-09	0.00E+00	8.31E-09	9.18E-10	3.13E-09	0.00E+00	4.05E-09
2736	420643.68	3735098.65	5.12E-09	2.34E-08	5.11E-11	2.86E-08	7.01E-10	3.20E-09	0.00E+00	3.90E-09	4.30E-10	1.47E-09	0.00E+00	1.90E-09
2737	420635.2	3735095.25	4.95E-09	2.26E-08	4.94E-11	2.76E-08	6.78E-10	3.09E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
2738	420626.72	3735091.84	4.80E-09	2.19E-08	4.79E-11	2.68E-08	6.57E-10	3.00E-09	0.00E+00	3.66E-09	4.03E-10	1.38E-09	0.00E+00	1.78E-09
2739	420618.24	3735088.44	4.65E-09	2.12E-08	4.64E-11	2.59E-08	6.37E-10	2.90E-09	0.00E+00	3.54E-09	3.91E-10	1.34E-09	0.00E+00	1.73E-09
2740	420609.76	3735085.03	4.48E-09	2.05E-08	4.48E-11	2.50E-08	6.15E-10	2.80E-09	0.00E+00	3.42E-09	3.77E-10	1.29E-09	0.00E+00	1.67E-09
2741	420601.28	3735081.63	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	0.00E+00	3.30E-09	3.64E-10	1.24E-09	0.00E+00	1.61E-09
2742	420592.8	3735078.22	4.19E-09	1.91E-08	4.19E-11	2.34E-08	5.74E-10	2.62E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.56E-09
2743	420584.32	3735074.82	4.05E-09	1.85E-08	4.05E-11	2.26E-08	5.56E-10	2.53E-09	0.00E+00	3.09E-09	3.41E-10	1.16E-09	0.00E+00	1.51E-09
2744	420575.84	3735071.41	3.93E-09	1.80E-08	3.93E-11	2.19E-08	5.39E-10	2.46E-09	0.00E+00	2.99E-09	3.31E-10	1.13E-09	0.00E+00	1.46E-09
2745	420567.36	3735068.01	3.81E-09	1.74E-08	3.81E-11	2.13E-08	5.23E-10	2.38E-09	0.00E+00	2.91E-09	3.21E-10	1.10E-09	0.00E+00	1.42E-09
2746	420558.88	3735064.6	3.70E-09	1.69E-08	3.70E-11	2.07E-08	5.08E-10	2.32E-09	0.00E+00	2.82E-09	3.12E-10	1.06E-09	0.00E+00	1.38E-09
2747	420550.4	3735061.2	3.60E-09	1.65E-08	3.60E-11	2.01E-08	4.94E-10	2.25E-09	0.00E+00	2.75E-09	3.03E-10	1.04E-09	0.00E+00	1.34E-09
2748	420541.92	3735057.79	3.51E-09	1.60E-08	3.51E-11	1.96E-08	4.81E-10	2.19E-09	0.00E+00	2.68E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
2749	420516.47	3735047.58	3.27E-09	1.49E-08	3.27E-11	1.83E-08	4.48E-10	2.04E-09	0.00E+00	2.49E-09	2.75E-10	9.40E-10	0.00E+00	1.21E-09
2750	420507.99	3735044.17	3.20E-09	1.46E-08	3.20E-11	1.79E-08	4.39E-10	2.00E-09	0.00E+00	2.44E-09	2.69E-10	9.20E-10	0.00E+00	1.19E-09
2751	420499.51	3735040.77	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	0.00E+00	2.38E-09	2.63E-10	8.98E-10	0.00E+00	1.16E-09
2752	420491.03	3735037.36	3.05E-09	1.40E-08	3.05E-11	1.70E-08	4.19E-10	1.91E-09	0.00E+00	2.33E-09	2.57E-10	8.77E-10	0.00E+00	1.13E-09
2753	420482.55	3735033.96	2.99E-09	1.37E-08	2.98E-11	1.67E-08	4.09E-10	1.87E-09	0.00E+00	2.28E-09	2.51E-10	8.58E-10	0.00E+00	1.11E-09
2754	420474.07	3735030.55	2.93E-09	1.34E-08	2.93E-11	1.63E-08	4.01E-10	1.83E-09	0.00E+00	2.23E-09	2.46E-10	8.41E-10	0.00E+00	1.09E-09
2755	420465.59	3735027.15	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.80E-09	0.00E+00	2.19E-09	2.42E-10	8.26E-10	0.00E+00	1.07E-09
2756	420457.11	3735023.74	2.82E-09	1.29E-08	2.82E-11	1.58E-08	3.87E-10	1.77E-09	0.00E+00	2.15E-09	2.38E-10	8.12E-10	0.00E+00	1.05E-09
2757	420448.63	3735020.34	2.78E-09	1.27E-08	2.78E-11	1.55E-08	3.81E-10	1.74E-09	0.00E+00	2.12E-09	2.34E-10	7.99E-10	0.00E+00	1.03E-09
2758	420440.15	3735016.93	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	0.00E+00	2.10E-09	2.31E-10	7.90E-10	0.00E+00	1.02E-09
2759	420431.67	3735013.52	2.72E-09	1.24E-08	2.72E-11	1.52E-08	3.73E-10	1.70E-09	0.00E+00	2.07E-09	2.29E-10	7.82E-10	0.00E+00	1.01E-09
2760	420423.19	3735010.12	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.69E-10	1.68E-09	0.00E+00	2.05E-09	2.26E-10	7.73E-10	0.00E+00	9.99E-10
2761	420414.71	3735006.71	2.66E-09	1.22E-08	2.66E-11	1.49E-08	3.65E-10	1.67E-09	0.00E+00	2.03E-09	2.24E-10	7.66E-10	0.00E+00	9.90E-10
2762	420406.23	3735003.31	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
2763	420397.74	3734999.9	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.53E-10	0.00E+00	9.74E-10
2764	420389.26	3734996.5	2.59E-09	1.18E-08	2.59E-11	1.44E-08	3.55E-10	1.62E-09	0.00E+00	1.97E-09	2.18E-10	7.43E-10	0.00E+00	9.61E-10
2765	420380.78	3734993.09	2.55E-09	1.17E-08	2.55E-11	1.42E-08	3.50E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.33E-10	0.00E+00	9.48E-10
2766	420372.3	3734989.69	2.52E-09	1.15E-08	2.52E-11	1.40E-08	3.45E-10	1.57E-09	0.00E+00	1.92E-09	2.12E-10	7.23E-10	0.00E+00	9.35E-10
2767	420363.82	3734986.28	2.48E-09	1.13E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.13E-10	0.00E+00	9.22E-10
2768	420287.5	3734955.64	2.16E-09	9.87E-09	2.16E-11	1.20E-08	2.96E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.20E-10	0.00E+00	8.02E-10
2769	420279.02	3734952.23	2.12E-09	9.68E-09	2.12E-11	1.18E-08	2.90E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.09E-10	0.00E+00	7.87E-10
2770	420267.01	3734940.4	2.09E-09	9.55E-09	2.09E-11	1.17E-08	2.86E-10	1.31E-09	0.00E+00	1.59E-09	1.76E-10	6.00E-10	0.00E+00	7.76E-10
2771	420263.48	3734931.97	2.10E-09	9.61E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.04E-10	0.00E+00	7.81E-10

2772	420224.67	3734839.23	2.18E-09	9.96E-09	2.18E-11	1.22E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.26E-10	0.00E+00	8.09E-10
2773	420203.51	3734788.65	2.17E-09	9.92E-09	2.17E-11	1.21E-08	2.97E-10	1.36E-09	0.00E+00	1.65E-09	1.83E-10	6.23E-10	0.00E+00	8.06E-10
2774	420199.98	3734780.22	2.17E-09	9.90E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.22E-10	0.00E+00	8.05E-10
2775	420196.45	3734771.79	2.16E-09	9.88E-09	2.16E-11	1.21E-08	2.96E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.21E-10	0.00E+00	8.03E-10
2776	420192.92	3734763.36	2.15E-09	9.85E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	0.00E+00	1.64E-09	1.81E-10	6.19E-10	0.00E+00	8.00E-10
2777	420161.17	3734687.49	2.08E-09	9.52E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.59E-09	1.75E-10	5.98E-10	0.00E+00	7.74E-10
2778	420157.64	3734679.06	2.07E-09	9.47E-09	2.07E-11	1.16E-08	2.84E-10	1.30E-09	0.00E+00	1.58E-09	1.74E-10	5.95E-10	0.00E+00	7.70E-10
2779	420150.59	3734662.2	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
2780	420147.06	3734653.76	2.04E-09	9.31E-09	2.04E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.85E-10	0.00E+00	7.57E-10
2781	420143.53	3734645.33	2.02E-09	9.26E-09	2.02E-11	1.13E-08	2.78E-10	1.27E-09	0.00E+00	1.54E-09	1.70E-10	5.82E-10	0.00E+00	7.52E-10
2782	420678.29	3735152.31	5.12E-09	2.34E-08	5.11E-11	2.86E-08	7.01E-10	3.20E-09	0.00E+00	3.90E-09	4.31E-10	1.47E-09	0.00E+00	1.90E-09
2783	420661.52	3735145.58	4.75E-09	2.17E-08	4.75E-11	2.65E-08	6.51E-10	2.97E-09	0.00E+00	3.62E-09	4.00E-10	1.36E-09	0.00E+00	1.76E-09
2784	420644.76	3735138.85	4.45E-09	2.03E-08	4.44E-11	2.48E-08	6.09E-10	2.78E-09	0.00E+00	3.39E-09	3.74E-10	1.28E-09	0.00E+00	1.65E-09
2785	420628	3735132.12	4.17E-09	1.91E-08	4.17E-11	2.33E-08	5.72E-10	2.61E-09	0.00E+00	3.18E-09	3.51E-10	1.20E-09	0.00E+00	1.55E-09
2786	420611.24	3735125.39	3.96E-09	1.81E-08	3.95E-11	2.21E-08	5.42E-10	2.47E-09	0.00E+00	3.02E-09	3.33E-10	1.14E-09	0.00E+00	1.47E-09
2787	420602.85	3735122.02	3.86E-09	1.76E-08	3.86E-11	2.15E-08	5.29E-10	2.41E-09	0.00E+00	2.94E-09	3.25E-10	1.11E-09	0.00E+00	1.43E-09
2788	420586.09	3735115.29	3.62E-09	1.66E-08	3.62E-11	2.02E-08	4.97E-10	2.26E-09	0.00E+00	2.76E-09	3.05E-10	1.04E-09	0.00E+00	1.35E-09
2789	420569.33	3735108.56	3.42E-09	1.56E-08	3.41E-11	1.91E-08	4.68E-10	2.14E-09	0.00E+00	2.60E-09	2.87E-10	9.82E-10	0.00E+00	1.27E-09
2790	420560.95	3735105.2	3.32E-09	1.52E-08	3.32E-11	1.85E-08	4.55E-10	2.08E-09	0.00E+00	2.53E-09	2.79E-10	9.54E-10	0.00E+00	1.23E-09
2791	420552.57	3735101.83	3.23E-09	1.48E-08	3.23E-11	1.81E-08	4.43E-10	2.02E-09	0.00E+00	2.47E-09	2.72E-10	9.29E-10	0.00E+00	1.20E-09
2792	420535.8	3735095.1	3.08E-09	1.41E-08	3.07E-11	1.72E-08	4.22E-10	1.92E-09	0.00E+00	2.34E-09	2.59E-10	8.84E-10	0.00E+00	1.14E-09
2793	420502.28	3735081.64	2.78E-09	1.27E-08	2.78E-11	1.55E-08	3.81E-10	1.74E-09	0.00E+00	2.12E-09	2.34E-10	8.00E-10	0.00E+00	1.03E-09
2794	420493.9	3735078.27	2.73E-09	1.25E-08	2.73E-11	1.52E-08	3.74E-10	1.71E-09	0.00E+00	2.08E-09	2.30E-10	7.85E-10	0.00E+00	1.01E-09
2795	420485.52	3735074.91	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.04E-09	2.26E-10	7.71E-10	0.00E+00	9.97E-10
2796	420477.13	3735071.54	2.64E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.57E-10	0.00E+00	9.79E-10
2797	420460.37	3735064.81	2.55E-09	1.16E-08	2.54E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.31E-10	0.00E+00	9.46E-10
2798	420443.61	3735058.08	2.48E-09	1.13E-08	2.48E-11	1.38E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.08E-10	7.12E-10	0.00E+00	9.20E-10
2799	420426.85	3735051.35	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.33E-10	1.52E-09	0.00E+00	1.85E-09	2.05E-10	6.99E-10	0.00E+00	9.04E-10
2800	420410.08	3735044.62	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	0.00E+00	1.81E-09	2.00E-10	6.84E-10	0.00E+00	8.84E-10
2801	420401.7	3735041.26	2.35E-09	1.08E-08	2.35E-11	1.31E-08	3.23E-10	1.47E-09	0.00E+00	1.79E-09	1.98E-10	6.76E-10	0.00E+00	8.74E-10
2802	420384.94	3735034.53	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.15E-10	1.44E-09	0.00E+00	1.75E-09	1.94E-10	6.61E-10	0.00E+00	8.55E-10
2803	420368.18	3735027.79	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.45E-10	0.00E+00	8.34E-10
2804	420359.8	3735024.43	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.87E-10	6.38E-10	0.00E+00	8.25E-10
2805	420351.41	3735021.06	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.01E-10	1.37E-09	0.00E+00	1.68E-09	1.85E-10	6.32E-10	0.00E+00	8.17E-10
2806	420334.65	3735014.33	2.14E-09	9.79E-09	2.14E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.16E-10	0.00E+00	7.96E-10
2807	420259.22	3734984.05	1.88E-09	8.58E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.97E-10
2808	420238.97	3734968.98	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.79E-10
2809	420232	3734952.32	1.85E-09	8.45E-09	1.85E-11	1.03E-08	2.53E-10	1.16E-09	0.00E+00	1.41E-09	1.55E-10	5.31E-10	0.00E+00	6.86E-10
2810	420211.08	3734902.33	1.88E-09	8.60E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.43E-09	1.58E-10	5.41E-10	0.00E+00	6.99E-10
2811	420204.1	3734885.67	1.88E-09	8.60E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.43E-09	1.58E-10	5.40E-10	0.00E+00	6.99E-10
2812	420200.62	3734877.34	1.88E-09	8.60E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.43E-09	1.58E-10	5.41E-10	0.00E+00	6.99E-10
2813	420172.73	3734810.68	1.89E-09	8.64E-09	1.89E-11	1.05E-08	2.59E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.43E-10	0.00E+00	7.02E-10
2814	420169.24	3734802.35	1.89E-09	8.63E-09	1.89E-11	1.05E-08	2.59E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.42E-10	0.00E+00	7.01E-10
2815	420162.27	3734785.69	1.88E-09	8.59E-09	1.88E-11	1.05E-08	2.58E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.40E-10	0.00E+00	6.98E-10
2816	420158.78	3734777.36	1.87E-09	8.57E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.96E-10
2817	420134.37	3734719.04	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.81E-10
2818	420127.4	3734702.37	1.82E-09	8.31E-09	1.82E-11	1.01E-08	2.49E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.22E-10	0.00E+00	6.75E-10
2819	420120.43	3734685.71	1.80E-09	8.23E-09	1.80E-11	1.00E-08	2.47E-10	1.13E-09	0.00E+00	1.37E-09	1.51E-10	5.17E-10	0.00E+00	6.69E-10
2820	420113.45	3734669.05	1.78E-09	8.14E-09	1.78E-11	9.94E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.12E-10	0.00E+00	6.61E-10
2821	420106.48	3734652.38	1.76E-09	8.04E-09	1.76E-11	9.82E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.05E-10	0.00E+00	6.53E-10
2822	420103	3734644.05	1.75E-09	7.99E-09	1.75E-11	9.76E-09	2.40E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.02E-10	0.00E+00	6.49E-10
2823	420096.02	3734627.39	1.72E-09	7.88E-09	1.72E-11	9.62E-09	2.36E-10	1.08E-09	0.00E+00	1.31E-09	1.45E-10	4.95E-10	0.00E+00	6.40E-10
2824	420686.67	3735155.67	5.32E-09	2.43E-08	5.32E-11	2.97E-08	7.29E-10	3.32E-09	0.00E+00	4.05E-09	4.47E-10	1.53E-09	0.00E+00	1.98E-09
2825	420695.85	3735155.54	5.64E-09	2.58E-08	5.63E-11	3.15E-08	7.73E-10	3.52E-09	0.00E+00	4.30E-09	4.74E-10	1.62E-09	0.00E+00	2.09E-09
2826	420705.04	3735155.41	5.99E-09	2.74E-08	5.98E-11	3.34E-08	8.21E-10	3.74E-09	0.00E+00	4.56E-09	5.04E-10	1.72E-09	0.00E+00	2.22E-09
2827	420714.23	3735155.27	6.36E-09	2.91E-08	6.36E-11	3.55E-08	8.73E-10	3.98E-09	0.00E+00	4.85E-09	5.35E-10	1.83E-09	0.00E+00	2.36E-09
2828	420732.6	3735155.01	7.19E-09	3.29E-08	7.18E-11	4.01E-08	9.85E-10	4.49E-09	0.00E+00	5.48E-09	6.05E-10	2.07E-09	0.00E+00	2.67E-09
2829	420741.79	3735154.87	7.64E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.77E-09	0.00E+00	5.82E-09	6.42E-10	2.19E-09	0.00E+00	2.84E-09
2830	420678.8	3735192.28	4.50E-09	2.06E-08	4.50E-11	2.51E-08	6.17E-10	2.82E-09	0.00E+00	3.43E-09	3.79E-10	1.29E-09	0.00E+00	1.67E-09
2831	420670.36	3735188.89	4.35E-09	1.99E-08	4.34E-11	2.43E-08	5.96E-10	2.72E-09	0.00E+00	3.31E-09	3.66E-10	1.25E-09	0.00E+00	1.61E-09
2832	420661.92	3735185.5	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	0.00E+00	3.20E-09	3.53E-10	1.21E-09	0.00E+00	1.56E-09
2833	420653.47	3735182.11	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	0.00E+00	3.10E-09	3.42E-10	1.17E-09	0.00E+00	1.51E-09
2834	420645.03	3735178.72	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	0.00E+00	3.00E-09	3.32E-10	1.13E-09	0.00E+00	1.46E-09
2835	420636.58	3735175.33	3.83E-09	1.75E-08	3.82E-11	2.14E-08	5.25E-10	2.39E-09	0.00E+00	2.92E-09	3.22E-10	1.10E-09	0.00E+00	1.42E-09
2836	420628.14	3735171.94	3.71E-09	1.70E-08	3.71E-11	2.07E-08	5.09E-10	2.32E-09	0.00E+00	2.83E-09	3.12E-10	1.07E-09	0.00E+00	1.38E-09
2837	420619.7	3735168.55	3.60E-09	1.65E-08	3.60E-11	2.01E-08	4.94E-10	2.25E-09	0.00E+00	2.74E-09	3.03E-10	1.03E-09	0.00E+00	1.34E-09
2838	420611.25	3735165.16	3.49E-09	1.60E-08	3.49E-11	1.95E-08	4.79E-10	2.18E-09	0.00E+00	2.66E-09	2.94E-10	1.00E-09	0.00E+00	1.30E-09
2839	420602.81	3735161.77	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.74E-10	0.00E+00	1.26E-09
2840	420594.36	3735158.38	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.52E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.47E-10	0.00E+00	1.22E-09
2841	420585.92	3735154.98	3.21E-09	1.47E-08	3.21E-11	1.79E-08	4.41E-10	2.01E-09	0.00E+00	2.45E-09	2.70E-10	9.24E-10	0.00E+00	1.19E-09
2842	420577.47	3735151.59	3.14E-09	1.44E-08	3.14E-11	1.76E-08	4.31E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.03E-10	0.00E+00	1.17E-09
2843	420569.03	3735148.2	3.06E-09	1.40E-08	3.06E-11	1.71E-08	4.19E-10	1.91E-09	0.00E+00	2.33E-09	2.57E-10	8.79E-10	0.00E+00	1.14E-09
2844	420560.59	3735144.81	2.98E-09	1.36E-08	2.97E-11	1.66E-08	4.08E-10	1.86E-09	0.00E+00	2.27E-09	2.50E-10	8.55E-10	0.00E+00	1.11E-09
2845	420552.14	3735141.42	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.98E-10	1.81E-09	0.00E+00	2.21E-09	2.44E-10	8.33E-10	0.00E+00	1.08E-09
2846	420543.7	3735138.03	2.83E-09	1.29E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	0.00E+00	2.16E-09	2.38E-10	8.13E-10	0.00E+00	1.05E-09

2847	420535.25	3735134.64	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	0.00E+00	2.10E-09	2.32E-10	7.91E-10	0.00E+00	1.02E-09
2848	420526.81	3735131.25	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.67E-10	1.68E-09	0.00E+00	2.04E-09	2.25E-10	7.70E-10	0.00E+00	9.95E-10
2849	420518.37	3735127.86	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	0.00E+00	1.99E-09	2.20E-10	7.50E-10	0.00E+00	9.70E-10
2850	420509.92	3735124.47	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.31E-10	0.00E+00	9.45E-10
2851	420484.59	3735114.3	2.39E-09	1.09E-08	2.39E-11	1.34E-08	3.28E-10	1.50E-09	0.00E+00	1.82E-09	2.01E-10	6.88E-10	0.00E+00	8.89E-10
2852	420476.15	3735110.91	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.23E-10	1.47E-09	0.00E+00	1.80E-09	1.98E-10	6.78E-10	0.00E+00	8.76E-10
2853	420467.7	3735107.52	2.33E-09	1.07E-08	2.33E-11	1.30E-08	3.19E-10	1.46E-09	0.00E+00	1.78E-09	1.96E-10	6.70E-10	0.00E+00	8.66E-10
2854	420459.26	3735104.13	2.30E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.75E-09	1.94E-10	6.62E-10	0.00E+00	8.55E-10
2855	420450.81	3735100.74	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.53E-10	0.00E+00	8.45E-10
2856	420442.37	3735097.35	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.45E-10	0.00E+00	8.34E-10
2857	420433.92	3735093.96	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.87E-10	6.38E-10	0.00E+00	8.25E-10
2858	420425.48	3735090.57	2.20E-09	1.00E-08	2.20E-11	1.23E-08	3.01E-10	1.37E-09	0.00E+00	1.68E-09	1.85E-10	6.31E-10	0.00E+00	8.16E-10
2859	420417.04	3735087.18	2.17E-09	9.94E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.25E-10	0.00E+00	8.07E-10
2860	420408.59	3735083.79	2.15E-09	9.82E-09	2.15E-11	1.20E-08	2.94E-10	1.34E-09	0.00E+00	1.64E-09	1.81E-10	6.17E-10	0.00E+00	7.98E-10
2861	420400.15	3735080.39	2.12E-09	9.71E-09	2.12E-11	1.19E-08	2.91E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.10E-10	0.00E+00	7.89E-10
2862	420391.7	3735077	2.10E-09	9.60E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.03E-10	0.00E+00	7.80E-10
2863	420383.26	3735073.61	2.08E-09	9.50E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.58E-09	1.75E-10	5.97E-10	0.00E+00	7.72E-10
2864	420374.82	3735070.22	2.06E-09	9.41E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	0.00E+00	1.57E-09	1.73E-10	5.91E-10	0.00E+00	7.64E-10
2865	420366.37	3735066.83	2.04E-09	9.31E-09	2.04E-11	1.14E-08	2.79E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.85E-10	0.00E+00	7.57E-10
2866	420357.93	3735063.44	2.01E-09	9.21E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	0.00E+00	1.53E-09	1.69E-10	5.79E-10	0.00E+00	7.48E-10
2867	420349.48	3735060.05	1.99E-09	9.10E-09	1.99E-11	1.11E-08	2.73E-10	1.24E-09	0.00E+00	1.52E-09	1.67E-10	5.72E-10	0.00E+00	7.40E-10
2868	420341.04	3735056.66	1.97E-09	8.99E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.65E-10	5.65E-10	0.00E+00	7.31E-10
2869	420332.6	3735053.27	1.94E-09	8.89E-09	1.94E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.22E-10
2870	420324.15	3735049.88	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.62E-10	5.52E-10	0.00E+00	7.13E-10
2871	420315.71	3735046.49	1.90E-09	8.67E-09	1.90E-11	1.06E-08	2.60E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.45E-10	0.00E+00	7.05E-10
2872	420307.26	3735043.1	1.87E-09	8.57E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.96E-10
2873	420298.82	3735039.71	1.85E-09	8.46E-09	1.85E-11	1.03E-08	2.54E-10	1.16E-09	0.00E+00	1.41E-09	1.56E-10	5.32E-10	0.00E+00	6.87E-10
2874	420290.38	3735036.32	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	0.00E+00	1.39E-09	1.54E-10	5.25E-10	0.00E+00	6.79E-10
2875	420281.93	3735032.93	1.80E-09	8.25E-09	1.80E-11	1.01E-08	2.47E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.18E-10	0.00E+00	6.70E-10
2876	420273.49	3735029.54	1.78E-09	8.14E-09	1.78E-11	9.94E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.12E-10	0.00E+00	6.61E-10
2877	420265.04	3735026.15	1.76E-09	8.03E-09	1.75E-11	9.80E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.05E-10	0.00E+00	6.52E-10
2878	420256.6	3735022.76	1.73E-09	7.92E-09	1.73E-11	9.67E-09	2.37E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.98E-10	0.00E+00	6.43E-10
2879	420248.15	3735019.37	1.71E-09	7.81E-09	1.71E-11	9.54E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.91E-10	0.00E+00	6.35E-10
2880	420239.71	3735015.98	1.68E-09	7.70E-09	1.68E-11	9.40E-09	2.31E-10	1.05E-09	0.00E+00	1.28E-09	1.42E-10	4.84E-10	0.00E+00	6.25E-10
2881	420231.27	3735012.59	1.66E-09	7.58E-09	1.66E-11	9.26E-09	2.27E-10	1.04E-09	0.00E+00	1.26E-09	1.40E-10	4.77E-10	0.00E+00	6.16E-10
2882	420222.82	3735009.2	1.63E-09	7.46E-09	1.63E-11	9.11E-09	2.24E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.69E-10	0.00E+00	6.06E-10
2883	420210.87	3734997.41	1.61E-09	7.38E-09	1.61E-11	9.01E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.36E-10	4.64E-10	0.00E+00	5.99E-10
2884	420207.35	3734989.02	1.62E-09	7.42E-09	1.62E-11	9.05E-09	2.22E-10	1.01E-09	0.00E+00	1.24E-09	1.36E-10	4.66E-10	0.00E+00	6.02E-10
2885	420203.84	3734980.62	1.63E-09	7.45E-09	1.63E-11	9.10E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.68E-10	0.00E+00	6.05E-10
2886	420196.82	3734963.83	1.64E-09	7.51E-09	1.64E-11	9.17E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.10E-10
2887	420189.79	3734947.05	1.65E-09	7.56E-09	1.65E-11	9.23E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
2888	420182.76	3734930.26	1.66E-09	7.59E-09	1.66E-11	9.27E-09	2.28E-10	1.04E-09	0.00E+00	1.27E-09	1.40E-10	4.77E-10	0.00E+00	6.17E-10
2889	420179.25	3734921.86	1.66E-09	7.61E-09	1.66E-11	9.29E-09	2.28E-10	1.04E-09	0.00E+00	1.27E-09	1.40E-10	4.78E-10	0.00E+00	6.18E-10
2890	420172.23	3734905.08	1.67E-09	7.64E-09	1.67E-11	9.32E-09	2.29E-10	1.04E-09	0.00E+00	1.27E-09	1.41E-10	4.80E-10	0.00E+00	6.20E-10
2891	420165.2	3734888.29	1.67E-09	7.65E-09	1.67E-11	9.34E-09	2.29E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.81E-10	0.00E+00	6.22E-10
2892	420133.59	3734812.74	1.66E-09	7.58E-09	1.66E-11	9.25E-09	2.27E-10	1.04E-09	0.00E+00	1.26E-09	1.39E-10	4.76E-10	0.00E+00	6.16E-10
2893	420130.07	3734804.35	1.65E-09	7.56E-09	1.65E-11	9.23E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
2894	420098.46	3734728.8	1.60E-09	7.30E-09	1.60E-11	8.91E-09	2.19E-10	9.98E-10	0.00E+00	1.22E-09	1.34E-10	4.59E-10	0.00E+00	5.93E-10
2895	420091.44	3734712.01	1.58E-09	7.21E-09	1.58E-11	8.80E-09	2.16E-10	9.86E-10	0.00E+00	1.20E-09	1.33E-10	4.53E-10	0.00E+00	5.86E-10
2896	420087.92	3734703.62	1.57E-09	7.17E-09	1.57E-11	8.75E-09	2.15E-10	9.80E-10	0.00E+00	1.19E-09	1.32E-10	4.50E-10	0.00E+00	5.82E-10
2897	420080.9	3734686.83	1.56E-09	7.13E-09	1.56E-11	8.71E-09	2.14E-10	9.75E-10	0.00E+00	1.19E-09	1.31E-10	4.48E-10	0.00E+00	5.79E-10
2898	420073.87	3734670.04	1.55E-09	7.10E-09	1.55E-11	8.67E-09	2.13E-10	9.71E-10	0.00E+00	1.18E-09	1.31E-10	4.46E-10	0.00E+00	5.77E-10
2899	420066.85	3734653.26	1.54E-09	7.02E-09	1.54E-11	8.57E-09	2.11E-10	9.60E-10	0.00E+00	1.17E-09	1.29E-10	4.41E-10	0.00E+00	5.71E-10
2900	420063.33	3734644.86	1.53E-09	6.98E-09	1.53E-11	8.52E-09	2.09E-10	9.55E-10	0.00E+00	1.16E-09	1.28E-10	4.39E-10	0.00E+00	5.67E-10
2901	420056.31	3734628.07	1.51E-09	6.89E-09	1.51E-11	8.41E-09	2.07E-10	9.42E-10	0.00E+00	1.15E-09	1.27E-10	4.33E-10	0.00E+00	5.60E-10
2902	420687.25	3735195.67	4.67E-09	2.13E-08	4.66E-11	2.61E-08	6.40E-10	2.92E-09	0.00E+00	3.56E-09	3.93E-10	1.34E-09	0.00E+00	1.73E-09
2903	420696.43	3735195.54	4.93E-09	2.25E-08	4.92E-11	2.75E-08	6.75E-10	3.08E-09	0.00E+00	3.76E-09	4.14E-10	1.42E-09	0.00E+00	1.83E-09
2904	420705.62	3735195.4	5.21E-09	2.38E-08	5.21E-11	2.91E-08	7.15E-10	3.26E-09	0.00E+00	3.97E-09	4.39E-10	1.50E-09	0.00E+00	1.94E-09
2905	420733.18	3735195	6.24E-09	2.85E-08	6.24E-11	3.48E-08	8.55E-10	3.90E-09	0.00E+00	4.76E-09	5.25E-10	1.79E-09	0.00E+00	2.32E-09
2906	420742.37	3735194.87	6.64E-09	3.04E-08	6.64E-11	3.71E-08	9.11E-10	4.15E-09	0.00E+00	5.07E-09	5.59E-10	1.91E-09	0.00E+00	2.47E-09
2907	420679.33	3735232.25	4.01E-09	1.84E-08	4.01E-11	2.24E-08	5.50E-10	2.51E-09	0.00E+00	3.06E-09	3.38E-10	1.15E-09	0.00E+00	1.49E-09
2908	420670.83	3735228.84	3.88E-09	1.77E-08	3.88E-11	2.17E-08	5.32E-10	2.43E-09	0.00E+00	2.96E-09	3.26E-10	1.12E-09	0.00E+00	1.44E-09
2909	420662.33	3735225.43	3.76E-09	1.72E-08	3.75E-11	2.10E-08	5.15E-10	2.35E-09	0.00E+00	2.86E-09	3.16E-10	1.08E-09	0.00E+00	1.40E-09
2910	420653.83	3735222.01	3.64E-09	1.66E-08	3.64E-11	2.03E-08	4.99E-10	2.28E-09	0.00E+00	2.78E-09	3.06E-10	1.05E-09	0.00E+00	1.35E-09
2911	420645.33	3735218.6	3.53E-09	1.62E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.02E-09	0.00E+00	1.31E-09
2912	420636.83	3735215.19	3.43E-09	1.57E-08	3.43E-11	1.91E-08	4.70E-10	2.14E-09	0.00E+00	2.61E-09	2.89E-10	9.85E-10	0.00E+00	1.27E-09
2913	420628.33	3735211.77	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.57E-10	2.08E-09	0.00E+00	2.54E-09	2.80E-10	9.58E-10	0.00E+00	1.24E-09
2914	420619.82	3735208.36	3.24E-09	1.48E-08	3.24E-11	1.81E-08	4.44E-10	2.03E-09	0.00E+00	2.47E-09	2.73E-10	9.31E-10	0.00E+00	1.20E-09
2915	420611.32	3735204.95	3.15E-09	1.44E-08	3.15E-11	1.76E-08	4.32E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.05E-10	0.00E+00	1.17E-09
2916	420602.82	3735201.54	3.07E-09	1.40E-08	3.06E-11	1.71E-08	4.20E-10	1.92E-09	0.00E+00	2.34E-09	2.58E-10	8.81E-10	0.00E+00	1.14E-09
2917	420594.32	3735198.12	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.09E-10	1.86E-09	0.00E+00	2.27E-09	2.51E-10	8.57E-10	0.00E+00	1.11E-09
2918	420585.82	3735194.71	2.90E-09	1.32E-08	2.89E-11	1.62E-08	3.97E-10	1.81E-09	0.00E+00	2.21E-09	2.44E-10	8.32E-10	0.00E+00	1.08E-09
2919	420577.32	3735191.3	2.82E-09	1.29E-08	2.82E-11	1.57E-08	3.86E-10	1.76E-09	0.00E+00	2.15E-09	2.37E-10	8.10E-10	0.00E+00	1.05E-09
2920	420568.82	3735187.88	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.76E-10	1.71E-09	0.00E+00	2.09E-09	2.31E-10	7.88E-10	0.00E+00	1.02E-09
2921	420560.32	3735184.47	2.67E-09	1.22E-08	2.67E-11	1.49E-08	3.66E-10	1.67E-09	0.00E+00	2.04E-09	2.25E-10	7.68E-10	0.00E+00	9.92E-10

2922	420551.82	3735181.06	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.48E-10	0.00E+00	9.67E-10
2923	420543.32	3735177.64	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.30E-10	0.00E+00	9.44E-10
2924	420534.82	3735174.23	2.48E-09	1.13E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.13E-10	0.00E+00	9.22E-10
2925	420526.32	3735170.82	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	0.00E+00	1.85E-09	2.04E-10	6.96E-10	0.00E+00	9.00E-10
2926	420517.82	3735167.4	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	0.00E+00	1.80E-09	1.99E-10	6.80E-10	0.00E+00	8.79E-10
2927	420509.32	3735163.99	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.65E-10	0.00E+00	8.59E-10
2928	420500.82	3735160.58	2.26E-09	1.04E-08	2.26E-11	1.26E-08	3.10E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.51E-10	0.00E+00	8.41E-10
2929	420466.82	3735146.93	2.12E-09	9.68E-09	2.12E-11	1.18E-08	2.90E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.09E-10	0.00E+00	7.87E-10
2930	420458.32	3735143.51	2.09E-09	9.56E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	0.00E+00	1.59E-09	1.76E-10	6.01E-10	0.00E+00	7.77E-10
2931	420449.82	3735140.1	2.07E-09	9.46E-09	2.07E-11	1.15E-08	2.84E-10	1.29E-09	0.00E+00	1.58E-09	1.74E-10	5.94E-10	0.00E+00	7.69E-10
2932	420441.31	3735136.69	2.04E-09	9.34E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.87E-10	0.00E+00	7.59E-10
2933	420432.81	3735133.27	2.02E-09	9.24E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.81E-10	0.00E+00	7.51E-10
2934	420424.31	3735129.86	2.00E-09	9.14E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	0.00E+00	1.52E-09	1.68E-10	5.75E-10	0.00E+00	7.43E-10
2935	420415.81	3735126.45	1.98E-09	9.04E-09	1.98E-11	1.10E-08	2.71E-10	1.24E-09	0.00E+00	1.51E-09	1.66E-10	5.68E-10	0.00E+00	7.34E-10
2936	420407.31	3735123.03	1.95E-09	8.93E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.61E-10	0.00E+00	7.26E-10
2937	420398.81	3735119.62	1.93E-09	8.83E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.62E-10	5.55E-10	0.00E+00	7.17E-10
2938	420390.31	3735116.21	1.91E-09	8.73E-09	1.91E-11	1.07E-08	2.62E-10	1.19E-09	0.00E+00	1.46E-09	1.61E-10	5.49E-10	0.00E+00	7.09E-10
2939	420381.81	3735112.79	1.89E-09	8.64E-09	1.89E-11	1.05E-08	2.59E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.43E-10	0.00E+00	7.02E-10
2940	420373.31	3735109.38	1.87E-09	8.53E-09	1.86E-11	1.04E-08	2.56E-10	1.17E-09	0.00E+00	1.42E-09	1.57E-10	5.36E-10	0.00E+00	6.93E-10
2941	420364.81	3735105.97	1.84E-09	8.42E-09	1.84E-11	1.03E-08	2.53E-10	1.15E-09	0.00E+00	1.40E-09	1.55E-10	5.29E-10	0.00E+00	6.84E-10
2942	420356.31	3735102.56	1.82E-09	8.34E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.24E-10	0.00E+00	6.77E-10
2943	420347.81	3735099.14	1.81E-09	8.27E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.19E-10	0.00E+00	6.72E-10
2944	420339.31	3735095.73	1.79E-09	8.18E-09	1.79E-11	9.99E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.51E-10	5.14E-10	0.00E+00	6.65E-10
2945	420330.81	3735092.32	1.77E-09	8.10E-09	1.77E-11	9.89E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.09E-10	0.00E+00	6.58E-10
2946	420322.31	3735088.9	1.75E-09	8.01E-09	1.75E-11	9.78E-09	2.40E-10	1.10E-09	0.00E+00	1.34E-09	1.47E-10	5.03E-10	0.00E+00	6.51E-10
2947	420313.81	3735085.49	1.73E-09	7.92E-09	1.73E-11	9.67E-09	2.38E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.98E-10	0.00E+00	6.44E-10
2948	420305.31	3735082.08	1.71E-09	7.83E-09	1.71E-11	9.57E-09	2.35E-10	1.07E-09	0.00E+00	1.31E-09	1.44E-10	4.92E-10	0.00E+00	6.37E-10
2949	420296.81	3735078.66	1.69E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.87E-10	0.00E+00	6.29E-10
2950	420288.31	3735075.25	1.67E-09	7.66E-09	1.67E-11	9.35E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.81E-10	0.00E+00	6.22E-10
2951	420279.81	3735071.84	1.65E-09	7.57E-09	1.65E-11	9.24E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.15E-10
2952	420271.3	3735068.42	1.64E-09	7.48E-09	1.63E-11	9.13E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.70E-10	0.00E+00	6.08E-10
2953	420262.8	3735065.01	1.62E-09	7.39E-09	1.61E-11	9.02E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.36E-10	4.64E-10	0.00E+00	6.00E-10
2954	420254.3	3735061.6	1.60E-09	7.30E-09	1.60E-11	8.91E-09	2.19E-10	9.98E-10	0.00E+00	1.22E-09	1.34E-10	4.59E-10	0.00E+00	5.93E-10
2955	420245.8	3735058.19	1.58E-09	7.21E-09	1.58E-11	8.80E-09	2.16E-10	9.85E-10	0.00E+00	1.20E-09	1.33E-10	4.53E-10	0.00E+00	5.85E-10
2956	420237.3	3735054.77	1.56E-09	7.11E-09	1.56E-11	8.69E-09	2.13E-10	9.73E-10	0.00E+00	1.19E-09	1.31E-10	4.47E-10	0.00E+00	5.78E-10
2957	420228.8	3735051.36	1.54E-09	7.02E-09	1.53E-11	8.57E-09	2.10E-10	9.60E-10	0.00E+00	1.17E-09	1.29E-10	4.41E-10	0.00E+00	5.70E-10
2958	420220.3	3735047.95	1.52E-09	6.93E-09	1.51E-11	8.46E-09	2.08E-10	9.47E-10	0.00E+00	1.16E-09	1.27E-10	4.35E-10	0.00E+00	5.63E-10
2959	420211.8	3735044.53	1.50E-09	6.84E-09	1.49E-11	8.35E-09	2.05E-10	9.35E-10	0.00E+00	1.14E-09	1.26E-10	4.30E-10	0.00E+00	5.56E-10
2960	420203.3	3735041.12	1.47E-09	6.74E-09	1.47E-11	8.23E-09	2.02E-10	9.22E-10	0.00E+00	1.12E-09	1.24E-10	4.24E-10	0.00E+00	5.48E-10
2961	420194.8	3735037.71	1.45E-09	6.65E-09	1.45E-11	8.12E-09	1.99E-10	9.10E-10	0.00E+00	1.11E-09	1.22E-10	4.18E-10	0.00E+00	5.40E-10
2962	420182.76	3735025.84	1.44E-09	6.59E-09	1.44E-11	8.04E-09	1.98E-10	9.01E-10	0.00E+00	1.10E-09	1.21E-10	4.14E-10	0.00E+00	5.35E-10
2963	420175.69	3735008.94	1.45E-09	6.64E-09	1.45E-11	8.11E-09	1.99E-10	9.08E-10	0.00E+00	1.11E-09	1.22E-10	4.17E-10	0.00E+00	5.40E-10
2964	420172.16	3735000.49	1.46E-09	6.66E-09	1.46E-11	8.13E-09	2.00E-10	9.10E-10	0.00E+00	1.11E-09	1.22E-10	4.18E-10	0.00E+00	5.41E-10
2965	420168.62	3734992.04	1.46E-09	6.68E-09	1.46E-11	8.16E-09	2.00E-10	9.13E-10	0.00E+00	1.11E-09	1.23E-10	4.20E-10	0.00E+00	5.43E-10
2966	420165.08	3734983.59	1.47E-09	6.70E-09	1.46E-11	8.18E-09	2.01E-10	9.16E-10	0.00E+00	1.12E-09	1.23E-10	4.21E-10	0.00E+00	5.44E-10
2967	420158.01	3734966.69	1.47E-09	6.74E-09	1.47E-11	8.23E-09	2.02E-10	9.22E-10	0.00E+00	1.12E-09	1.24E-10	4.24E-10	0.00E+00	5.48E-10
2968	420154.48	3734958.24	1.48E-09	6.76E-09	1.48E-11	8.26E-09	2.03E-10	9.25E-10	0.00E+00	1.13E-09	1.24E-10	4.25E-10	0.00E+00	5.50E-10
2969	420150.94	3734949.79	1.48E-09	6.79E-09	1.48E-11	8.28E-09	2.03E-10	9.28E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.51E-10
2970	420147.4	3734941.34	1.49E-09	6.79E-09	1.48E-11	8.29E-09	2.04E-10	9.29E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
2971	420140.33	3734924.44	1.49E-09	6.80E-09	1.49E-11	8.30E-09	2.04E-10	9.30E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
2972	420136.79	3734915.99	1.49E-09	6.80E-09	1.49E-11	8.30E-09	2.04E-10	9.30E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
2973	420133.26	3734907.54	1.49E-09	6.80E-09	1.49E-11	8.30E-09	2.04E-10	9.30E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
2974	420129.72	3734899.09	1.49E-09	6.80E-09	1.49E-11	8.30E-09	2.04E-10	9.29E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
2975	420122.65	3734882.19	1.48E-09	6.79E-09	1.48E-11	8.29E-09	2.04E-10	9.28E-10	0.00E+00	1.13E-09	1.25E-10	4.27E-10	0.00E+00	5.52E-10
2976	420119.11	3734873.74	1.48E-09	6.78E-09	1.48E-11	8.28E-09	2.03E-10	9.27E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.51E-10
2977	420115.58	3734865.29	1.48E-09	6.77E-09	1.48E-11	8.27E-09	2.03E-10	9.26E-10	0.00E+00	1.13E-09	1.25E-10	4.26E-10	0.00E+00	5.50E-10
2978	420112.04	3734856.84	1.48E-09	6.76E-09	1.48E-11	8.26E-09	2.03E-10	9.25E-10	0.00E+00	1.13E-09	1.24E-10	4.25E-10	0.00E+00	5.50E-10
2979	420104.97	3734839.94	1.47E-09	6.74E-09	1.47E-11	8.23E-09	2.02E-10	9.22E-10	0.00E+00	1.12E-09	1.24E-10	4.24E-10	0.00E+00	5.48E-10
2980	420101.43	3734831.49	1.47E-09	6.73E-09	1.47E-11	8.22E-09	2.02E-10	9.20E-10	0.00E+00	1.12E-09	1.24E-10	4.23E-10	0.00E+00	5.47E-10
2981	420076.68	3734772.34	1.45E-09	6.61E-09	1.45E-11	8.07E-09	1.98E-10	9.04E-10	0.00E+00	1.10E-09	1.22E-10	4.15E-10	0.00E+00	5.37E-10
2982	420069.61	3734755.44	1.44E-09	6.56E-09	1.43E-11	8.01E-09	1.97E-10	8.97E-10	0.00E+00	1.09E-09	1.21E-10	4.12E-10	0.00E+00	5.33E-10
2983	420059	3734730.09	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.83E-10	0.00E+00	1.08E-09	1.19E-10	4.06E-10	0.00E+00	5.25E-10
2984	420051.93	3734713.19	1.39E-09	6.34E-09	1.39E-11	7.75E-09	1.90E-10	8.68E-10	0.00E+00	1.06E-09	1.17E-10	3.99E-10	0.00E+00	5.15E-10
2985	420048.39	3734704.74	1.38E-09	6.29E-09	1.38E-11	7.68E-09	1.89E-10	8.60E-10	0.00E+00	1.05E-09	1.16E-10	3.95E-10	0.00E+00	5.11E-10
2986	420044.86	3734696.29	1.37E-09	6.26E-09	1.37E-11	7.64E-09	1.88E-10	8.56E-10	0.00E+00	1.04E-09	1.15E-10	3.93E-10	0.00E+00	5.08E-10
2987	420041.32	3734687.84	1.36E-09	6.24E-09	1.36E-11	7.62E-09	1.87E-10	8.53E-10	0.00E+00	1.04E-09	1.15E-10	3.92E-10	0.00E+00	5.07E-10
2988	420034.25	3734670.94	1.35E-09	6.19E-09	1.35E-11	7.56E-09	1.86E-10	8.47E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
2989	420030.71	3734662.49	1.35E-09	6.19E-09	1.35E-11	7.55E-09	1.85E-10	8.46E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
2990	420027.18	3734654.04	1.35E-09	6.19E-09	1.35E-11	7.55E-09	1.85E-10	8.46E-10	0.00E+00	1.03E-09	1.14E-10	3.89E-10	0.00E+00	5.03E-10
2991	420023.64	3734645.59	1.34E-09	6.15E-09	1.34E-11	7.51E-09	1.84E-10	8.41E-10	0.00E+00	1.03E-09	1.13E-10	3.86E-10	0.00E+00	5.00E-10
2992	420687.83	3735235.67	4.16E-09	1.90E-08	4.15E-11	2.32E-08	5.70E-10	2.60E-09	0.00E+00	3.17E-09	3.50E-10	1.19E-09	0.00E+00	1.54E-09
2993	420697.02	3735235.53	4.37E-09	2.00E-08	4.37E-11	2.44E-08	5.99E-10	2.73E-09	0.00E+00	3.33E-09	3.67E-10	1.26E-09	0.00E+00	1.62E-09
2994	420706.2	3735235.4	4.60E-09	2.10E-08	4.59E-11	2.57E-08	6.30E-10	2.87E-09	0.00E+00	3.50E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
2995	420733.76	3735235	5.40E-09	2.47E-08	5.40E-11	3.02E-08	7.41E-10	3.38E-09	0.00E+00	4.12E-09	4.54E-10	1.55E-09	0.00E+00	2.01E-09
2996	420742.95	3735234.87	5.72E-09	2.61E-08	5.71E-11	3.19E-08	7.84E-10	3.57E-09	0.00E+00	4.36E-09	4.81E-10	1.64E-09	0.00E+00	2.12E-09

2997	420771.64	3734561.95	2.19E-06	9.99E-06	2.18E-08	1.22E-05	3.00E-07	1.37E-06	0.00E+00	1.67E-06	1.84E-07	6.28E-07	0.00E+00	8.12E-07
2998	420782.08	3734561.19	1.85E-06	8.44E-06	1.85E-08	1.03E-05	2.53E-07	1.15E-06	0.00E+00	1.41E-06	1.55E-07	5.31E-07	0.00E+00	6.86E-07
2999	420766.7	3734581.09	1.76E-06	8.05E-06	1.76E-08	9.83E-06	2.41E-07	1.10E-06	0.00E+00	1.34E-06	1.48E-07	5.06E-07	0.00E+00	6.54E-07
3000	420793.04	3734526.56	1.63E-06	7.44E-06	1.63E-08	9.09E-06	2.23E-07	1.02E-06	0.00E+00	1.24E-06	1.37E-07	4.68E-07	0.00E+00	6.05E-07
3001	420793.3	3734516.58	1.55E-06	7.07E-06	1.54E-08	8.63E-06	2.12E-07	9.66E-07	0.00E+00	1.18E-06	1.30E-07	4.44E-07	0.00E+00	5.74E-07
3002	420793.57	3734506.59	1.42E-06	6.51E-06	1.42E-08	7.95E-06	1.95E-07	8.90E-07	0.00E+00	1.09E-06	1.20E-07	4.09E-07	0.00E+00	5.29E-07
3003	420792.37	3734560.77	1.56E-06	7.11E-06	1.55E-08	8.68E-06	2.13E-07	9.73E-07	0.00E+00	1.19E-06	1.31E-07	4.47E-07	0.00E+00	5.78E-07
3004	420785.45	3734576.75	1.51E-06	6.91E-06	1.51E-08	8.43E-06	2.07E-07	9.45E-07	0.00E+00	1.15E-06	1.27E-07	4.34E-07	0.00E+00	5.61E-07
3005	420773.95	3734588.1	1.48E-06	6.76E-06	1.48E-08	8.26E-06	2.03E-07	9.25E-07	0.00E+00	1.13E-06	1.24E-07	4.25E-07	0.00E+00	5.50E-07
3006	420757.9	3734594.84	1.44E-06	6.57E-06	1.44E-08	8.03E-06	1.97E-07	8.99E-07	0.00E+00	1.10E-06	1.21E-07	4.13E-07	0.00E+00	5.34E-07
3007	420803.03	3734526.83	1.31E-06	5.99E-06	1.31E-08	7.31E-06	1.80E-07	8.19E-07	0.00E+00	9.99E-07	1.10E-07	3.76E-07	0.00E+00	4.87E-07
3008	420803.3	3734516.84	1.23E-06	5.64E-06	1.23E-08	6.89E-06	1.69E-07	7.71E-07	0.00E+00	9.40E-07	1.04E-07	3.55E-07	0.00E+00	4.58E-07
3009	420803.57	3734506.86	1.13E-06	5.18E-06	1.13E-08	6.32E-06	1.55E-07	7.08E-07	0.00E+00	8.63E-07	9.53E-08	3.25E-07	0.00E+00	4.21E-07
3010	420800.89	3734564.46	1.32E-06	6.05E-06	1.32E-08	7.39E-06	1.81E-07	8.28E-07	0.00E+00	1.01E-06	1.11E-07	3.80E-07	0.00E+00	4.92E-07
3011	420796.93	3734573.59	1.33E-06	6.07E-06	1.33E-08	7.41E-06	1.82E-07	8.30E-07	0.00E+00	1.01E-06	1.12E-07	3.81E-07	0.00E+00	4.93E-07
3012	420792.97	3734582.72	1.29E-06	5.91E-06	1.29E-08	7.21E-06	1.77E-07	8.08E-07	0.00E+00	9.85E-07	1.09E-07	3.71E-07	0.00E+00	4.80E-07
3013	420779.84	3734595.7	1.26E-06	5.78E-06	1.26E-08	7.05E-06	1.73E-07	7.90E-07	0.00E+00	9.63E-07	1.06E-07	3.63E-07	0.00E+00	4.69E-07
3014	420770.66	3734599.55	1.26E-06	5.77E-06	1.26E-08	7.04E-06	1.73E-07	7.89E-07	0.00E+00	9.62E-07	1.06E-07	3.63E-07	0.00E+00	4.69E-07
3015	420761.48	3734603.39	1.21E-06	5.55E-06	1.21E-08	6.77E-06	1.66E-07	7.59E-07	0.00E+00	9.25E-07	1.02E-07	3.49E-07	0.00E+00	4.51E-07
3016	420812.76	3734537.08	1.11E-06	5.08E-06	1.11E-08	6.21E-06	1.52E-07	6.95E-07	0.00E+00	8.48E-07	9.36E-08	3.20E-07	0.00E+00	4.13E-07
3017	420813.03	3734527.09	1.07E-06	4.88E-06	1.07E-08	5.96E-06	1.46E-07	6.67E-07	0.00E+00	8.13E-07	8.98E-08	3.07E-07	0.00E+00	3.96E-07
3018	420813.29	3734517.11	1.00E-06	4.57E-06	9.99E-09	5.58E-06	1.37E-07	6.25E-07	0.00E+00	7.62E-07	8.41E-08	2.87E-07	0.00E+00	3.71E-07
3019	420813.56	3734507.13	9.16E-07	4.19E-06	9.16E-09	5.11E-06	1.26E-07	5.73E-07	0.00E+00	6.98E-07	7.71E-08	2.63E-07	0.00E+00	3.40E-07
3020	420811.31	3734563.75	1.12E-06	5.13E-06	1.12E-08	6.27E-06	1.54E-07	7.02E-07	0.00E+00	8.56E-07	9.45E-08	3.23E-07	0.00E+00	4.17E-07
3021	420807.49	3734572.56	1.15E-06	5.24E-06	1.15E-08	6.39E-06	1.57E-07	7.16E-07	0.00E+00	8.73E-07	9.64E-08	3.29E-07	0.00E+00	4.26E-07
3022	420803.67	3734581.36	1.14E-06	5.22E-06	1.14E-08	6.37E-06	1.56E-07	7.13E-07	0.00E+00	8.70E-07	9.60E-08	3.28E-07	0.00E+00	4.24E-07
3023	420799.86	3734590.16	1.11E-06	5.08E-06	1.11E-08	6.20E-06	1.52E-07	6.94E-07	0.00E+00	8.46E-07	9.34E-08	3.19E-07	0.00E+00	4.12E-07
3024	420787.19	3734602.68	1.09E-06	4.97E-06	1.09E-08	6.07E-06	1.49E-07	6.80E-07	0.00E+00	8.29E-07	9.15E-08	3.13E-07	0.00E+00	4.04E-07
3025	420778.34	3734606.38	1.09E-06	4.99E-06	1.09E-08	6.10E-06	1.50E-07	6.83E-07	0.00E+00	8.32E-07	9.19E-08	3.14E-07	0.00E+00	4.06E-07
3026	420769.49	3734610.09	1.06E-06	4.86E-06	1.06E-08	5.94E-06	1.46E-07	6.65E-07	0.00E+00	8.11E-07	8.95E-08	3.06E-07	0.00E+00	3.95E-07
3027	420760.64	3734613.8	1.00E-06	4.58E-06	1.00E-08	5.59E-06	1.37E-07	6.26E-07	0.00E+00	7.63E-07	8.42E-08	2.88E-07	0.00E+00	3.72E-07
3028	420751.79	3734617.51	9.07E-07	4.15E-06	9.07E-09	5.06E-06	1.24E-07	5.67E-07	0.00E+00	6.91E-07	7.63E-08	2.61E-07	0.00E+00	3.37E-07
3029	420822.76	3734537.34	9.24E-07	4.22E-06	9.23E-09	5.16E-06	1.27E-07	5.77E-07	0.00E+00	7.04E-07	7.77E-08	2.65E-07	0.00E+00	3.43E-07
3030	420823.02	3734527.36	8.81E-07	4.03E-06	8.80E-09	4.92E-06	1.21E-07	5.51E-07	0.00E+00	6.71E-07	7.41E-08	2.53E-07	0.00E+00	3.27E-07
3031	420823.29	3734517.38	8.22E-07	3.76E-06	8.21E-09	4.59E-06	1.13E-07	5.14E-07	0.00E+00	6.26E-07	6.91E-08	2.36E-07	0.00E+00	3.05E-07
3032	420823.56	3734507.39	7.52E-07	3.44E-06	7.52E-09	4.20E-06	1.03E-07	4.70E-07	0.00E+00	5.73E-07	6.33E-08	2.16E-07	0.00E+00	2.79E-07
3033	420821.62	3734563.29	9.55E-07	4.37E-06	9.55E-09	5.33E-06	1.31E-07	5.97E-07	0.00E+00	7.28E-07	8.04E-08	2.74E-07	0.00E+00	3.55E-07
3034	420817.91	3734571.85	9.86E-07	4.51E-06	9.86E-09	5.50E-06	1.35E-07	6.16E-07	0.00E+00	7.52E-07	8.30E-08	2.83E-07	0.00E+00	3.66E-07
3035	420814.2	3734580.4	9.98E-07	4.56E-06	9.98E-09	5.57E-06	1.37E-07	6.24E-07	0.00E+00	7.61E-07	8.40E-08	2.87E-07	0.00E+00	3.71E-07
3036	420810.49	3734588.96	9.90E-07	4.53E-06	9.90E-09	5.53E-06	1.36E-07	6.19E-07	0.00E+00	7.55E-07	8.33E-08	2.85E-07	0.00E+00	3.68E-07
3037	420806.78	3734597.52	9.63E-07	4.40E-06	9.63E-09	5.38E-06	1.32E-07	6.02E-07	0.00E+00	7.34E-07	8.10E-08	2.77E-07	0.00E+00	3.58E-07
3038	420794.46	3734609.69	9.46E-07	4.33E-06	9.46E-09	5.28E-06	1.30E-07	5.92E-07	0.00E+00	7.21E-07	7.96E-08	2.72E-07	0.00E+00	3.52E-07
3039	420785.86	3734613.29	9.53E-07	4.36E-06	9.52E-09	5.32E-06	1.31E-07	5.96E-07	0.00E+00	7.26E-07	8.02E-08	2.74E-07	0.00E+00	3.54E-07
3040	420777.26	3734616.9	9.36E-07	4.28E-06	9.35E-09	5.22E-06	1.28E-07	5.85E-07	0.00E+00	7.13E-07	7.87E-08	2.69E-07	0.00E+00	3.48E-07
3041	420768.65	3734620.5	8.94E-07	4.09E-06	8.94E-09	4.99E-06	1.23E-07	5.59E-07	0.00E+00	6.82E-07	7.52E-08	2.57E-07	0.00E+00	3.32E-07
3042	420760.05	3734624.11	8.29E-07	3.79E-06	8.28E-09	4.63E-06	1.14E-07	5.18E-07	0.00E+00	6.32E-07	6.97E-08	2.38E-07	0.00E+00	3.08E-07
3043	420751.45	3734627.72	7.43E-07	3.40E-06	7.43E-09	4.15E-06	1.02E-07	4.65E-07	0.00E+00	5.66E-07	6.25E-08	2.14E-07	0.00E+00	2.76E-07
3044	420832.75	3734537.61	7.75E-07	3.54E-06	7.74E-09	4.32E-06	1.06E-07	4.84E-07	0.00E+00	5.91E-07	6.52E-08	2.23E-07	0.00E+00	2.88E-07
3045	420833.02	3734527.63	7.35E-07	3.36E-06	7.35E-09	4.10E-06	1.01E-07	4.60E-07	0.00E+00	5.60E-07	6.18E-08	2.11E-07	0.00E+00	2.73E-07
3046	420833.29	3734517.64	6.84E-07	3.13E-06	6.84E-09	3.82E-06	9.38E-08	4.28E-07	0.00E+00	5.21E-07	5.76E-08	1.97E-07	0.00E+00	2.54E-07
3047	420833.55	3734507.66	6.26E-07	2.86E-06	6.25E-09	3.49E-06	8.58E-08	3.91E-07	0.00E+00	4.77E-07	5.26E-08	1.80E-07	0.00E+00	2.32E-07
3048	420840.87	3734565.53	7.12E-07	3.26E-06	7.12E-09	3.97E-06	9.76E-08	4.45E-07	0.00E+00	5.43E-07	5.99E-08	2.05E-07	0.00E+00	2.64E-07
3049	420836.91	3734574.66	7.46E-07	3.41E-06	7.45E-09	4.16E-06	1.02E-07	4.66E-07	0.00E+00	5.68E-07	6.27E-08	2.14E-07	0.00E+00	2.77E-07
3050	420832.96	3734583.79	7.67E-07	3.50E-06	7.66E-09	4.28E-06	1.05E-07	4.79E-07	0.00E+00	5.84E-07	6.45E-08	2.20E-07	0.00E+00	2.85E-07
3051	420829	3734592.92	7.74E-07	3.54E-06	7.74E-09	4.32E-06	1.06E-07	4.84E-07	0.00E+00	5.90E-07	6.51E-08	2.22E-07	0.00E+00	2.88E-07
3052	420825.04	3734602.05	7.68E-07	3.51E-06	7.67E-09	4.28E-06	1.05E-07	4.80E-07	0.00E+00	5.85E-07	6.46E-08	2.21E-07	0.00E+00	2.85E-07
3053	420821.08	3734611.18	7.48E-07	3.42E-06	7.47E-09	4.17E-06	1.02E-07	4.67E-07	0.00E+00	5.70E-07	6.29E-08	2.15E-07	0.00E+00	2.78E-07
3054	420807.95	3734624.16	7.37E-07	3.37E-06	7.36E-09	4.11E-06	1.01E-07	4.61E-07	0.00E+00	5.62E-07	6.20E-08	2.12E-07	0.00E+00	2.74E-07
3055	420798.77	3734628	7.43E-07	3.40E-06	7.43E-09	4.15E-06	1.02E-07	4.65E-07	0.00E+00	5.66E-07	6.25E-08	2.14E-07	0.00E+00	2.76E-07
3056	420789.59	3734631.85	7.33E-07	3.35E-06	7.32E-09	4.09E-06	1.00E-07	4.58E-07	0.00E+00	5.59E-07	6.16E-08	2.11E-07	0.00E+00	2.72E-07
3057	420780.42	3734635.69	7.04E-07	3.22E-06	7.04E-09	3.93E-06	9.66E-08	4.40E-07	0.00E+00	5.37E-07	5.93E-08	2.02E-07	0.00E+00	2.62E-07
3058	420771.24	3734639.54	6.59E-07	3.01E-06	6.59E-09	3.68E-06	9.04E-08	4.12E-07	0.00E+00	5.03E-07	5.55E-08	1.89E-07	0.00E+00	2.45E-07
3059	420762.06	3734643.39	5.99E-07	2.74E-06	5.99E-09	3.34E-06	8.21E-08	3.74E-07	0.00E+00	4.57E-07	5.04E-08	1.72E-07	0.00E+00	2.23E-07
3060	420752.89	3734647.23	5.28E-07	2.42E-06	5.28E-09	2.95E-06	7.24E-08	3.30E-07	0.00E+00	4.03E-07	4.45E-08	1.52E-07	0.00E+00	1.96E-07
3061	420743.71	3734651.08	4.53E-07	2.07E-06	4.52E-09	2.53E-06	6.20E-08	2.83E-07	0.00E+00	3.45E-07	3.81E-08	1.30E-07	0.00E+00	1.68E-07
3062	420861.41	3734564.82	5.31E-07	2.43E-06	5.31E-09	2.96E-06	7.28E-08	3.32E-07	0.00E+00	4.05E-07	4.47E-08	1.53E-07	0.00E+00	1.97E-07
3063	420857.63	3734573.54	5.62E-07	2.57E-06	5.62E-09	3.14E-06	7.70E-08	3.51E-07	0.00E+00	4.28E-07	4.73E-08	1.61E-07	0.00E+00	2.09E-07
3064	420853.85	3734582.25	5.87E-07	2.68E-06	5.87E-09	3.28E-06	8.05E-08	3.67E-07	0.00E+00	4.47E-07	4.94E-08	1.69E-07	0.00E+00	2.18E-07
3065	420850.07	3734590.96	6.05E-07	2.77E-06	6.05E-09	3.38E-06	8.29E-08	3.78E-07	0.00E+00	4.61E-07	5.09E-08	1.74E-07	0.00E+00	2.25E-07
3066	420846.29	3734599.68	6.15E-07	2.81E-06	6.14E-09	3.43E-06	8.43E-08	3.84E-07	0.00E+00	4.69E-07	5.17E-08	1.77E-07	0.00E+00	2.28E-07
3067	420842.51	3734608.39	6.16E-07	2.82E-06	6.16E-09	3.44E-06	8.45E-08	3.85E-07	0.00E+00	4.70E-07	5.19E-08	1.77E-07	0.00E+00	2.29E-07
3068	420838.74	3734617.11	6.09E-07	2.79E-06	6.09E-09	3.40E-06	8.35E-08	3.81E-07	0.00E+00	4.64E-07	5.13E-08	1.75E-07	0.00E+00	2.26E-07
3069	420834.96	3734625.82	5.94E-07	2.72E-06	5.94E-09	3.32E-06	8.15E-08	3.71E-07	0.00E+00	4.53E-07	5.00E-08	1.71E-07	0.00E+00	2.21E-07
3070	420822.42	3734638.21	5.88E-07	2.69E-06	5.88E-09	3.28E-06	8.06E-08	3.68E-07	0.00E+00	4.48E-07	4.95E-08	1.69E-07	0.00E+00	2.18E-07
3071	420813.66	3734641.88	5.94E-07	2.72E-06	5.94E-09	3.32E-06	8.14E-08	3.71E-07	0.00E+00	4.53E-07	5.00E-08	1.71E-07	0.00E+00	2.21E-07

3072	420804.9	3734645.55	5.91E-07	2.70E-06	5.91E-09	3.30E-06	8.10E-08	3.70E-07	0.00E+00	4.51E-07	4.97E-08	1.70E-07	0.00E+00	2.20E-07
3073	420796.14	3734649.22	5.78E-07	2.64E-06	5.78E-09	3.23E-06	7.92E-08	3.61E-07	0.00E+00	4.41E-07	4.86E-08	1.66E-07	0.00E+00	2.15E-07
3074	420787.38	3734652.9	5.54E-07	2.53E-06	5.54E-09	3.09E-06	7.60E-08	3.46E-07	0.00E+00	4.22E-07	4.66E-08	1.59E-07	0.00E+00	2.06E-07
3075	420778.62	3734656.57	5.20E-07	2.38E-06	5.20E-09	2.90E-06	7.13E-08	3.25E-07	0.00E+00	3.96E-07	4.38E-08	1.49E-07	0.00E+00	1.93E-07
3076	420769.86	3734660.24	4.77E-07	2.18E-06	4.77E-09	2.66E-06	6.54E-08	2.98E-07	0.00E+00	3.64E-07	4.02E-08	1.37E-07	0.00E+00	1.77E-07
3077	420761.1	3734663.91	4.28E-07	1.96E-06	4.28E-09	2.39E-06	5.87E-08	2.68E-07	0.00E+00	3.26E-07	3.60E-08	1.23E-07	0.00E+00	1.59E-07
3078	420752.34	3734667.58	3.76E-07	1.72E-06	3.76E-09	2.10E-06	5.15E-08	2.35E-07	0.00E+00	2.87E-07	3.16E-08	1.08E-07	0.00E+00	1.40E-07
3079	420743.58	3734671.25	3.23E-07	1.48E-06	3.23E-09	1.81E-06	4.43E-08	2.02E-07	0.00E+00	2.47E-07	2.72E-08	9.29E-08	0.00E+00	1.20E-07
3080	420880.86	3734566.6	4.12E-07	1.88E-06	4.11E-09	2.30E-06	5.64E-08	2.57E-07	0.00E+00	3.14E-07	3.46E-08	1.18E-07	0.00E+00	1.53E-07
3081	420876.9	3734575.73	4.38E-07	2.00E-06	4.38E-09	2.45E-06	6.01E-08	2.74E-07	0.00E+00	3.34E-07	3.69E-08	1.26E-07	0.00E+00	1.63E-07
3082	420872.94	3734584.86	4.61E-07	2.11E-06	4.61E-09	2.58E-06	6.32E-08	2.88E-07	0.00E+00	3.52E-07	3.88E-08	1.33E-07	0.00E+00	1.71E-07
3083	420868.98	3734593.99	4.80E-07	2.20E-06	4.80E-09	2.68E-06	6.58E-08	3.00E-07	0.00E+00	3.66E-07	4.04E-08	1.38E-07	0.00E+00	1.78E-07
3084	420865.03	3734603.12	4.93E-07	2.26E-06	4.93E-09	2.75E-06	6.76E-08	3.08E-07	0.00E+00	3.76E-07	4.15E-08	1.42E-07	0.00E+00	1.83E-07
3085	420861.07	3734612.25	5.01E-07	2.29E-06	5.00E-09	2.79E-06	6.86E-08	3.13E-07	0.00E+00	3.82E-07	4.21E-08	1.44E-07	0.00E+00	1.86E-07
3086	420857.11	3734621.38	5.01E-07	2.29E-06	5.01E-09	2.80E-06	6.87E-08	3.13E-07	0.00E+00	3.82E-07	4.22E-08	1.44E-07	0.00E+00	1.86E-07
3087	420853.15	3734630.51	4.95E-07	2.27E-06	4.95E-09	2.77E-06	6.79E-08	3.10E-07	0.00E+00	3.78E-07	4.17E-08	1.42E-07	0.00E+00	1.84E-07
3088	420849.19	3734639.64	4.84E-07	2.21E-06	4.84E-09	2.70E-06	6.64E-08	3.03E-07	0.00E+00	3.69E-07	4.07E-08	1.39E-07	0.00E+00	1.80E-07
3089	420836.06	3734652.61	4.79E-07	2.19E-06	4.79E-09	2.68E-06	6.57E-08	3.00E-07	0.00E+00	3.65E-07	4.03E-08	1.38E-07	0.00E+00	1.78E-07
3090	420826.88	3734656.46	4.85E-07	2.22E-06	4.84E-09	2.71E-06	6.64E-08	3.03E-07	0.00E+00	3.69E-07	4.08E-08	1.39E-07	0.00E+00	1.80E-07
3091	420817.7	3734660.3	4.83E-07	2.21E-06	4.83E-09	2.70E-06	6.62E-08	3.02E-07	0.00E+00	3.68E-07	4.06E-08	1.39E-07	0.00E+00	1.79E-07
3092	420808.53	3734664.15	4.74E-07	2.16E-06	4.73E-09	2.64E-06	6.49E-08	2.96E-07	0.00E+00	3.61E-07	3.98E-08	1.36E-07	0.00E+00	1.76E-07
3093	420799.35	3734668	4.57E-07	2.09E-06	4.56E-09	2.55E-06	6.26E-08	2.86E-07	0.00E+00	3.48E-07	3.84E-08	1.31E-07	0.00E+00	1.70E-07
3094	420790.17	3734671.84	4.32E-07	1.98E-06	4.32E-09	2.41E-06	5.92E-08	2.70E-07	0.00E+00	3.29E-07	3.64E-08	1.24E-07	0.00E+00	1.61E-07
3095	420781	3734675.69	4.01E-07	1.83E-06	4.01E-09	2.24E-06	5.49E-08	2.51E-07	0.00E+00	3.06E-07	3.37E-08	1.15E-07	0.00E+00	1.49E-07
3096	420771.82	3734679.54	3.64E-07	1.66E-06	3.64E-09	2.03E-06	4.99E-08	2.28E-07	0.00E+00	2.78E-07	3.06E-08	1.05E-07	0.00E+00	1.35E-07
3097	420762.64	3734683.38	3.24E-07	1.48E-06	3.24E-09	1.81E-06	4.44E-08	2.03E-07	0.00E+00	2.47E-07	2.73E-08	9.31E-08	0.00E+00	1.20E-07
3098	420753.47	3734687.23	2.82E-07	1.29E-06	2.82E-09	1.58E-06	3.87E-08	1.77E-07	0.00E+00	2.15E-07	2.38E-08	8.12E-08	0.00E+00	1.05E-07
3099	420744.29	3734691.08	2.42E-07	1.11E-06	2.42E-09	1.35E-06	3.32E-08	1.51E-07	0.00E+00	1.85E-07	2.04E-08	6.96E-08	0.00E+00	9.00E-08
3100	420893	3734529.23	2.96E-07	1.35E-06	2.96E-09	1.65E-06	4.06E-08	1.85E-07	0.00E+00	2.25E-07	2.49E-08	8.50E-08	0.00E+00	1.10E-07
3101	420893.27	3734519.25	2.75E-07	1.26E-06	2.75E-09	1.54E-06	3.77E-08	1.72E-07	0.00E+00	2.10E-07	2.32E-08	7.91E-08	0.00E+00	1.02E-07
3102	420893.53	3734509.26	2.54E-07	1.16E-06	2.53E-09	1.42E-06	3.48E-08	1.59E-07	0.00E+00	1.93E-07	2.13E-08	7.28E-08	0.00E+00	9.42E-08
3103	420901.28	3734566.16	3.16E-07	1.44E-06	3.16E-09	1.76E-06	4.33E-08	1.97E-07	0.00E+00	2.41E-07	2.66E-08	9.07E-08	0.00E+00	1.17E-07
3104	420897.46	3734574.96	3.39E-07	1.55E-06	3.39E-09	1.89E-06	4.65E-08	2.12E-07	0.00E+00	2.59E-07	2.85E-08	9.75E-08	0.00E+00	1.26E-07
3105	420893.64	3734583.76	3.61E-07	1.65E-06	3.61E-09	2.01E-06	4.94E-08	2.26E-07	0.00E+00	2.75E-07	3.03E-08	1.04E-07	0.00E+00	1.34E-07
3106	420889.83	3734592.57	3.79E-07	1.73E-06	3.78E-09	2.11E-06	5.19E-08	2.37E-07	0.00E+00	2.89E-07	3.19E-08	1.09E-07	0.00E+00	1.41E-07
3107	420886.01	3734601.37	3.93E-07	1.80E-06	3.93E-09	2.19E-06	5.39E-08	2.46E-07	0.00E+00	3.00E-07	3.31E-08	1.13E-07	0.00E+00	1.46E-07
3108	420882.19	3734610.17	4.04E-07	1.85E-06	4.04E-09	2.26E-06	5.54E-08	2.53E-07	0.00E+00	3.08E-07	3.40E-08	1.16E-07	0.00E+00	1.50E-07
3109	420878.37	3734618.98	4.12E-07	1.88E-06	4.11E-09	2.30E-06	5.64E-08	2.57E-07	0.00E+00	3.14E-07	3.46E-08	1.18E-07	0.00E+00	1.53E-07
3110	420874.56	3734627.78	4.15E-07	1.90E-06	4.15E-09	2.32E-06	5.69E-08	2.59E-07	0.00E+00	3.16E-07	3.49E-08	1.19E-07	0.00E+00	1.54E-07
3111	420870.74	3734636.58	4.14E-07	1.89E-06	4.14E-09	2.31E-06	5.68E-08	2.59E-07	0.00E+00	3.16E-07	3.49E-08	1.19E-07	0.00E+00	1.54E-07
3112	420866.92	3734645.39	4.09E-07	1.87E-06	4.09E-09	2.28E-06	5.61E-08	2.56E-07	0.00E+00	3.12E-07	3.44E-08	1.18E-07	0.00E+00	1.52E-07
3113	420863.11	3734654.19	4.00E-07	1.83E-06	4.00E-09	2.23E-06	5.48E-08	2.50E-07	0.00E+00	3.05E-07	3.36E-08	1.15E-07	0.00E+00	1.49E-07
3114	420850.44	3734666.7	3.96E-07	1.81E-06	3.96E-09	2.21E-06	5.43E-08	2.48E-07	0.00E+00	3.02E-07	3.33E-08	1.14E-07	0.00E+00	1.47E-07
3115	420841.59	3734670.41	4.01E-07	1.83E-06	4.01E-09	2.24E-06	5.49E-08	2.51E-07	0.00E+00	3.06E-07	3.37E-08	1.15E-07	0.00E+00	1.49E-07
3116	420832.74	3734674.12	4.02E-07	1.84E-06	4.02E-09	2.24E-06	5.51E-08	2.51E-07	0.00E+00	3.07E-07	3.38E-08	1.16E-07	0.00E+00	1.49E-07
3117	420823.89	3734677.83	3.98E-07	1.82E-06	3.98E-09	2.22E-06	5.46E-08	2.49E-07	0.00E+00	3.04E-07	3.35E-08	1.14E-07	0.00E+00	1.48E-07
3118	420815.04	3734681.54	3.89E-07	1.78E-06	3.89E-09	2.17E-06	5.33E-08	2.43E-07	0.00E+00	2.96E-07	3.27E-08	1.12E-07	0.00E+00	1.44E-07
3119	420806.2	3734685.25	3.74E-07	1.71E-06	3.74E-09	2.09E-06	5.13E-08	2.34E-07	0.00E+00	2.85E-07	3.15E-08	1.08E-07	0.00E+00	1.39E-07
3120	420797.35	3734688.96	3.55E-07	1.62E-06	3.55E-09	1.98E-06	4.86E-08	2.22E-07	0.00E+00	2.70E-07	2.98E-08	1.02E-07	0.00E+00	1.32E-07
3121	420788.5	3734692.67	3.31E-07	1.51E-06	3.31E-09	1.85E-06	4.54E-08	2.07E-07	0.00E+00	2.52E-07	2.78E-08	9.51E-08	0.00E+00	1.23E-07
3122	420779.65	3734696.38	3.04E-07	1.39E-06	3.04E-09	1.70E-06	4.16E-08	1.90E-07	0.00E+00	2.32E-07	2.56E-08	8.73E-08	0.00E+00	1.13E-07
3123	420770.8	3734700.08	2.74E-07	1.25E-06	2.73E-09	1.53E-06	3.75E-08	1.71E-07	0.00E+00	2.08E-07	2.30E-08	7.86E-08	0.00E+00	1.02E-07
3124	420761.95	3734703.79	2.43E-07	1.11E-06	2.43E-09	1.35E-06	3.33E-08	1.52E-07	0.00E+00	1.85E-07	2.04E-08	6.97E-08	0.00E+00	9.01E-08
3125	420753.1	3734707.5	2.12E-07	9.71E-07	2.12E-09	1.19E-06	2.91E-08	1.33E-07	0.00E+00	1.62E-07	1.79E-08	6.10E-08	0.00E+00	7.89E-08
3126	420744.25	3734711.21	1.84E-07	8.42E-07	1.84E-09	1.03E-06	2.52E-08	1.15E-07	0.00E+00	1.40E-07	1.55E-08	5.29E-08	0.00E+00	6.84E-08
3127	420912.99	3734529.76	2.30E-07	1.05E-06	2.30E-09	1.28E-06	3.15E-08	1.44E-07	0.00E+00	1.75E-07	1.93E-08	6.61E-08	0.00E+00	8.54E-08
3128	420913.26	3734519.78	2.14E-07	9.79E-07	2.14E-09	1.20E-06	2.94E-08	1.34E-07	0.00E+00	1.63E-07	1.80E-08	6.16E-08	0.00E+00	7.96E-08
3129	420913.53	3734509.8	1.99E-07	9.08E-07	1.98E-09	1.11E-06	2.72E-08	1.24E-07	0.00E+00	1.51E-07	1.67E-08	5.71E-08	0.00E+00	7.38E-08
3130	420920.84	3734567.67	2.51E-07	1.15E-06	2.51E-09	1.40E-06	3.44E-08	1.57E-07	0.00E+00	1.92E-07	2.11E-08	7.22E-08	0.00E+00	9.33E-08
3131	420916.89	3734576.8	2.70E-07	1.23E-06	2.70E-09	1.51E-06	3.70E-08	1.69E-07	0.00E+00	2.06E-07	2.27E-08	7.75E-08	0.00E+00	1.00E-07
3132	420912.93	3734585.93	2.88E-07	1.32E-06	2.88E-09	1.61E-06	3.95E-08	1.80E-07	0.00E+00	2.20E-07	2.43E-08	8.29E-08	0.00E+00	1.07E-07
3133	420908.97	3734595.06	3.06E-07	1.40E-06	3.06E-09	1.71E-06	4.19E-08	1.91E-07	0.00E+00	2.33E-07	2.57E-08	8.78E-08	0.00E+00	1.14E-07
3134	420905.01	3734604.19	3.21E-07	1.47E-06	3.21E-09	1.79E-06	4.40E-08	2.01E-07	0.00E+00	2.45E-07	2.70E-08	9.22E-08	0.00E+00	1.19E-07
3135	420901.05	3734613.32	3.32E-07	1.52E-06	3.32E-09	1.85E-06	4.55E-08	2.08E-07	0.00E+00	2.53E-07	2.79E-08	9.54E-08	0.00E+00	1.23E-07
3136	420897.1	3734622.44	3.40E-07	1.56E-06	3.40E-09	1.90E-06	4.66E-08	2.13E-07	0.00E+00	2.59E-07	2.86E-08	9.78E-08	0.00E+00	1.26E-07
3137	420893.14	3734631.57	3.46E-07	1.58E-06	3.45E-09	1.93E-06	4.74E-08	2.16E-07	0.00E+00	2.63E-07	2.91E-08	9.93E-08	0.00E+00	1.28E-07
3138	420889.18	3734640.7	3.48E-07	1.59E-06	3.48E-09	1.94E-06	4.77E-08	2.18E-07	0.00E+00	2.65E-07	2.93E-08	1.00E-07	0.00E+00	1.29E-07
3139	420885.22	3734649.83	3.47E-07	1.59E-06	3.47E-09	1.94E-06	4.76E-08	2.17E-07	0.00E+00	2.65E-07	2.92E-08	9.97E-08	0.00E+00	1.29E-07
3140	420881.26	3734658.96	3.43E-07	1.57E-06	3.43E-09	1.91E-06	4.70E-08	2.14E-07	0.00E+00	2.61E-07	2.89E-08	9.86E-08	0.00E+00	1.27E-07
3141	420877.3	3734668.09	3.36E-07	1.54E-06	3.36E-09	1.88E-06	4.61E-08	2.10E-07	0.00E+00	2.56E-07	2.83E-08	9.66E-08	0.00E+00	1.25E-07
3142	420864.17	3734681.07	3.34E-07	1.53E-06	3.34E-09	1.87E-06	4.58E-08	2.09E-07	0.00E+00	2.55E-07	2.81E-08	9.61E-08	0.00E+00	1.24E-07
3143	420854.99	3734684.91	3.39E-07	1.55E-06	3.39E-09	1.89E-06	4.65E-08	2.12E-07	0.00E+00	2.59E-07	2.85E-08	9.75E-08	0.00E+00	1.26E-07
3144	420845.82	3734688.76	3.40E-07	1.56E-06	3.40E-09	1.90E-06	4.66E-08	2.13E-07	0.00E+00	2.59E-07	2.86E-08	9.78E-08	0.00E+00	1.26E-07
3145	420836.64	3734692.61	3.38E-07	1.54E-06	3.37E-09	1.88E-06	4.63E-08	2.11E-07	0.00E+00	2.57E-07	2.84E-08	9.70E-08	0.00E+00	1.25E-07
3146	420827.46	3734696.45	3.31E-07	1.51E-06	3.31E-09	1.85E-06	4.54E-08	2.07E-07	0.00E+00	2.52E-07	2.78E-08	9.51E-08	0.00E+00	1.23E-07

3147	420818.28	3734700.3	3.20E-07	1.46E-06	3.20E-09	1.79E-06	4.39E-08	2.00E-07	0.00E+00	2.44E-07	2.69E-08	9.19E-08	0.00E+00	1.19E-07
3148	420809.11	3734704.15	3.05E-07	1.39E-06	3.05E-09	1.70E-06	4.18E-08	1.91E-07	0.00E+00	2.32E-07	2.57E-08	8.76E-08	0.00E+00	1.13E-07
3149	420799.93	3734707.99	2.87E-07	1.31E-06	2.87E-09	1.60E-06	3.93E-08	1.79E-07	0.00E+00	2.19E-07	2.41E-08	8.24E-08	0.00E+00	1.07E-07
3150	420790.75	3734711.84	2.65E-07	1.21E-06	2.65E-09	1.48E-06	3.64E-08	1.66E-07	0.00E+00	2.02E-07	2.23E-08	7.63E-08	0.00E+00	9.86E-08
3151	420781.58	3734715.69	2.42E-07	1.11E-06	2.42E-09	1.35E-06	3.31E-08	1.51E-07	0.00E+00	1.84E-07	2.03E-08	6.95E-08	0.00E+00	8.98E-08
3152	420772.4	3734719.53	2.17E-07	9.92E-07	2.17E-09	1.21E-06	2.98E-08	1.36E-07	0.00E+00	1.65E-07	1.83E-08	6.24E-08	0.00E+00	8.06E-08
3153	420763.22	3734723.38	1.93E-07	8.80E-07	1.92E-09	1.07E-06	2.64E-08	1.20E-07	0.00E+00	1.47E-07	1.62E-08	5.53E-08	0.00E+00	7.15E-08
3154	420754.05	3734727.23	1.68E-07	7.69E-07	1.68E-09	9.38E-07	2.30E-08	1.05E-07	0.00E+00	1.28E-07	1.41E-08	4.83E-08	0.00E+00	6.24E-08
3155	420744.87	3734731.07	1.45E-07	6.62E-07	1.45E-09	8.08E-07	1.99E-08	9.06E-08	0.00E+00	1.10E-07	1.22E-08	4.16E-08	0.00E+00	5.38E-08
3156	420932.99	3734530.3	1.83E-07	8.38E-07	1.83E-09	1.02E-06	2.51E-08	1.15E-07	0.00E+00	1.40E-07	1.54E-08	5.26E-08	0.00E+00	6.80E-08
3157	420933.25	3734520.31	1.71E-07	7.81E-07	1.71E-09	9.54E-07	2.34E-08	1.07E-07	0.00E+00	1.30E-07	1.44E-08	4.91E-08	0.00E+00	6.35E-08
3158	420933.52	3734510.33	1.58E-07	7.23E-07	1.58E-09	8.83E-07	2.17E-08	9.89E-08	0.00E+00	1.21E-07	1.33E-08	4.54E-08	0.00E+00	5.87E-08
3159	420941.19	3734567.4	2.00E-07	9.15E-07	2.00E-09	1.12E-06	2.74E-08	1.25E-07	0.00E+00	1.53E-07	1.68E-08	5.75E-08	0.00E+00	7.43E-08
3160	420937.34	3734576.26	2.14E-07	9.80E-07	2.14E-09	1.20E-06	2.94E-08	1.34E-07	0.00E+00	1.63E-07	1.80E-08	6.16E-08	0.00E+00	7.96E-08
3161	420933.5	3734585.12	2.29E-07	1.05E-06	2.29E-09	1.28E-06	3.13E-08	1.43E-07	0.00E+00	1.74E-07	1.92E-08	6.57E-08	0.00E+00	8.49E-08
3162	420929.66	3734593.98	2.43E-07	1.11E-06	2.43E-09	1.36E-06	3.33E-08	1.52E-07	0.00E+00	1.85E-07	2.04E-08	6.98E-08	0.00E+00	9.02E-08
3163	420925.82	3734602.84	2.56E-07	1.17E-06	2.56E-09	1.43E-06	3.51E-08	1.60E-07	0.00E+00	1.95E-07	2.16E-08	7.36E-08	0.00E+00	9.52E-08
3164	420921.98	3734611.7	2.68E-07	1.23E-06	2.68E-09	1.50E-06	3.68E-08	1.68E-07	0.00E+00	2.04E-07	2.26E-08	7.71E-08	0.00E+00	9.96E-08
3165	420918.14	3734620.56	2.78E-07	1.27E-06	2.78E-09	1.55E-06	3.81E-08	1.74E-07	0.00E+00	2.12E-07	2.34E-08	8.00E-08	0.00E+00	1.03E-07
3166	420914.29	3734629.42	2.86E-07	1.31E-06	2.86E-09	1.60E-06	3.93E-08	1.79E-07	0.00E+00	2.18E-07	2.41E-08	8.23E-08	0.00E+00	1.06E-07
3167	420910.45	3734638.28	2.92E-07	1.33E-06	2.92E-09	1.63E-06	4.00E-08	1.82E-07	0.00E+00	2.22E-07	2.46E-08	8.39E-08	0.00E+00	1.08E-07
3168	420906.61	3734647.14	2.95E-07	1.35E-06	2.95E-09	1.65E-06	4.04E-08	1.84E-07	0.00E+00	2.25E-07	2.48E-08	8.47E-08	0.00E+00	1.10E-07
3169	420902.77	3734656.01	2.96E-07	1.35E-06	2.96E-09	1.65E-06	4.05E-08	1.85E-07	0.00E+00	2.25E-07	2.49E-08	8.50E-08	0.00E+00	1.10E-07
3170	420898.93	3734664.87	2.95E-07	1.35E-06	2.94E-09	1.64E-06	4.04E-08	1.84E-07	0.00E+00	2.24E-07	2.48E-08	8.46E-08	0.00E+00	1.09E-07
3171	420895.09	3734673.73	2.91E-07	1.33E-06	2.91E-09	1.63E-06	3.99E-08	1.82E-07	0.00E+00	2.22E-07	2.45E-08	8.37E-08	0.00E+00	1.08E-07
3172	420891.24	3734682.59	2.86E-07	1.31E-06	2.86E-09	1.60E-06	3.92E-08	1.79E-07	0.00E+00	2.18E-07	2.41E-08	8.22E-08	0.00E+00	1.06E-07
3173	420878.5	3734695.18	2.85E-07	1.30E-06	2.85E-09	1.59E-06	3.91E-08	1.78E-07	0.00E+00	2.18E-07	2.40E-08	8.20E-08	0.00E+00	1.06E-07
3174	420869.59	3734698.92	2.90E-07	1.33E-06	2.90E-09	1.62E-06	3.98E-08	1.81E-07	0.00E+00	2.21E-07	2.44E-08	8.33E-08	0.00E+00	1.08E-07
3175	420860.68	3734702.65	2.92E-07	1.33E-06	2.92E-09	1.63E-06	4.00E-08	1.82E-07	0.00E+00	2.22E-07	2.46E-08	8.39E-08	0.00E+00	1.08E-07
3176	420851.77	3734706.38	2.91E-07	1.33E-06	2.91E-09	1.62E-06	3.99E-08	1.82E-07	0.00E+00	2.22E-07	2.45E-08	8.36E-08	0.00E+00	1.08E-07
3177	420842.87	3734710.12	2.87E-07	1.31E-06	2.87E-09	1.60E-06	3.94E-08	1.80E-07	0.00E+00	2.19E-07	2.42E-08	8.26E-08	0.00E+00	1.07E-07
3178	420833.96	3734713.85	2.81E-07	1.28E-06	2.81E-09	1.57E-06	3.85E-08	1.76E-07	0.00E+00	2.14E-07	2.36E-08	8.07E-08	0.00E+00	1.04E-07
3179	420825.05	3734717.58	2.71E-07	1.24E-06	2.71E-09	1.52E-06	3.72E-08	1.70E-07	0.00E+00	2.07E-07	2.28E-08	7.80E-08	0.00E+00	1.01E-07
3180	420816.15	3734721.32	2.59E-07	1.18E-06	2.59E-09	1.45E-06	3.55E-08	1.62E-07	0.00E+00	1.97E-07	2.18E-08	7.44E-08	0.00E+00	9.62E-08
3181	420807.24	3734725.05	2.44E-07	1.12E-06	2.44E-09	1.36E-06	3.35E-08	1.53E-07	0.00E+00	1.86E-07	2.05E-08	7.02E-08	0.00E+00	9.07E-08
3182	420798.33	3734728.78	2.27E-07	1.04E-06	2.27E-09	1.27E-06	3.11E-08	1.42E-07	0.00E+00	1.73E-07	1.91E-08	6.53E-08	0.00E+00	8.44E-08
3183	420789.42	3734732.52	2.09E-07	9.54E-07	2.09E-09	1.16E-06	2.86E-08	1.30E-07	0.00E+00	1.59E-07	1.76E-08	6.00E-08	0.00E+00	7.75E-08
3184	420771.61	3734739.98	1.70E-07	7.79E-07	1.70E-09	9.51E-07	2.34E-08	1.07E-07	0.00E+00	1.30E-07	1.43E-08	4.90E-08	0.00E+00	6.33E-08
3185	420762.7	3734743.72	1.51E-07	6.90E-07	1.51E-09	8.42E-07	2.07E-08	9.44E-08	0.00E+00	1.15E-07	1.27E-08	4.34E-08	0.00E+00	5.61E-08
3186	420753.8	3734747.45	1.32E-07	6.05E-07	1.32E-09	7.39E-07	1.81E-08	8.27E-08	0.00E+00	1.01E-07	1.11E-08	3.80E-08	0.00E+00	4.92E-08
3187	420744.89	3734751.18	1.15E-07	5.26E-07	1.15E-09	6.42E-07	1.58E-08	7.19E-08	0.00E+00	8.76E-08	9.67E-09	3.30E-08	0.00E+00	4.27E-08
3188	420952.98	3734530.83	1.48E-07	6.77E-07	1.48E-09	8.26E-07	2.03E-08	9.25E-08	0.00E+00	1.13E-07	1.24E-08	4.25E-08	0.00E+00	5.50E-08
3189	420953.24	3734520.85	1.39E-07	6.34E-07	1.39E-09	7.74E-07	1.90E-08	8.67E-08	0.00E+00	1.06E-07	1.17E-08	3.98E-08	0.00E+00	5.15E-08
3190	420953.51	3734510.86	1.29E-07	5.88E-07	1.29E-09	7.18E-07	1.76E-08	8.04E-08	0.00E+00	9.81E-08	1.08E-08	3.70E-08	0.00E+00	4.78E-08
3191	420960.83	3734568.74	1.64E-07	7.49E-07	1.64E-09	9.15E-07	2.25E-08	1.02E-07	0.00E+00	1.25E-07	1.38E-08	4.71E-08	0.00E+00	6.09E-08
3192	420956.87	3734577.87	1.76E-07	8.04E-07	1.76E-09	9.81E-07	2.41E-08	1.10E-07	0.00E+00	1.34E-07	1.48E-08	5.05E-08	0.00E+00	6.53E-08
3193	420952.91	3734587	1.88E-07	8.61E-07	1.88E-09	1.05E-06	2.58E-08	1.18E-07	0.00E+00	1.44E-07	1.58E-08	5.41E-08	0.00E+00	6.99E-08
3194	420948.96	3734596.12	2.00E-07	9.17E-07	2.00E-09	1.12E-06	2.75E-08	1.25E-07	0.00E+00	1.53E-07	1.69E-08	5.76E-08	0.00E+00	7.45E-08
3195	420945	3734605.25	2.12E-07	9.69E-07	2.12E-09	1.18E-06	2.91E-08	1.33E-07	0.00E+00	1.62E-07	1.78E-08	6.09E-08	0.00E+00	7.87E-08
3196	420941.04	3734614.38	2.23E-07	1.02E-06	2.22E-09	1.24E-06	3.05E-08	1.39E-07	0.00E+00	1.70E-07	1.87E-08	6.40E-08	0.00E+00	8.27E-08
3197	420937.08	3734623.51	2.32E-07	1.06E-06	2.32E-09	1.30E-06	3.18E-08	1.45E-07	0.00E+00	1.77E-07	1.95E-08	6.67E-08	0.00E+00	8.62E-08
3198	420933.12	3734632.64	2.40E-07	1.10E-06	2.40E-09	1.34E-06	3.29E-08	1.50E-07	0.00E+00	1.83E-07	2.02E-08	6.90E-08	0.00E+00	8.92E-08
3199	420929.16	3734641.77	2.46E-07	1.13E-06	2.46E-09	1.38E-06	3.38E-08	1.54E-07	0.00E+00	1.88E-07	2.07E-08	7.08E-08	0.00E+00	9.16E-08
3200	420925.21	3734650.9	2.51E-07	1.15E-06	2.51E-09	1.40E-06	3.44E-08	1.57E-07	0.00E+00	1.92E-07	2.11E-08	7.22E-08	0.00E+00	9.33E-08
3201	420921.25	3734660.03	2.54E-07	1.16E-06	2.54E-09	1.42E-06	3.48E-08	1.59E-07	0.00E+00	1.93E-07	2.13E-08	7.29E-08	0.00E+00	9.42E-08
3202	420917.29	3734669.16	2.54E-07	1.16E-06	2.54E-09	1.42E-06	3.49E-08	1.59E-07	0.00E+00	1.94E-07	2.14E-08	7.31E-08	0.00E+00	9.44E-08
3203	420913.33	3734678.29	2.53E-07	1.16E-06	2.53E-09	1.41E-06	3.47E-08	1.58E-07	0.00E+00	1.93E-07	2.13E-08	7.28E-08	0.00E+00	9.41E-08
3204	420909.37	3734687.42	2.51E-07	1.15E-06	2.50E-09	1.40E-06	3.43E-08	1.57E-07	0.00E+00	1.91E-07	2.11E-08	7.20E-08	0.00E+00	9.31E-08
3205	420905.42	3734696.55	2.46E-07	1.12E-06	2.46E-09	1.37E-06	3.37E-08	1.54E-07	0.00E+00	1.88E-07	2.07E-08	7.07E-08	0.00E+00	9.14E-08
3206	420892.28	3734709.52	2.46E-07	1.12E-06	2.45E-09	1.37E-06	3.37E-08	1.54E-07	0.00E+00	1.87E-07	2.07E-08	7.06E-08	0.00E+00	9.12E-08
3207	420883.1	3734713.37	2.50E-07	1.14E-06	2.50E-09	1.39E-06	3.43E-08	1.56E-07	0.00E+00	1.90E-07	2.10E-08	7.18E-08	0.00E+00	9.28E-08
3208	420873.93	3734717.22	2.52E-07	1.15E-06	2.52E-09	1.41E-06	3.46E-08	1.58E-07	0.00E+00	1.92E-07	2.12E-08	7.25E-08	0.00E+00	9.37E-08
3209	420864.75	3734721.06	2.52E-07	1.15E-06	2.52E-09	1.41E-06	3.46E-08	1.58E-07	0.00E+00	1.92E-07	2.12E-08	7.26E-08	0.00E+00	9.38E-08
3210	420855.57	3734724.91	2.50E-07	1.14E-06	2.50E-09	1.40E-06	3.43E-08	1.56E-07	0.00E+00	1.91E-07	2.10E-08	7.19E-08	0.00E+00	9.29E-08
3211	420846.4	3734728.76	2.45E-07	1.12E-06	2.45E-09	1.37E-06	3.36E-08	1.53E-07	0.00E+00	1.87E-07	2.06E-08	7.05E-08	0.00E+00	9.11E-08
3212	420837.22	3734732.6	2.38E-07	1.09E-06	2.38E-09	1.33E-06	3.26E-08	1.49E-07	0.00E+00	1.82E-07	2.00E-08	6.84E-08	0.00E+00	8.85E-08
3213	420791.33	3734751.84	1.72E-07	7.86E-07	1.72E-09	9.59E-07	2.36E-08	1.07E-07	0.00E+00	1.31E-07	1.45E-08	4.94E-08	0.00E+00	6.39E-08
3214	420782.16	3734755.68	1.55E-07	7.10E-07	1.55E-09	8.67E-07	2.13E-08	9.71E-08	0.00E+00	1.18E-07	1.31E-08	4.46E-08	0.00E+00	5.77E-08
3215	420772.98	3734759.53	1.39E-07	6.35E-07	1.39E-09	7.75E-07	1.90E-08	8.68E-08	0.00E+00	1.06E-07	1.17E-08	3.99E-08	0.00E+00	5.16E-08
3216	420763.8	3734763.38	1.23E-07	5.62E-07	1.23E-09	6.86E-07	1.68E-08	7.68E-08	0.00E+00	9.36E-08	1.03E-08	3.53E-08	0.00E+00	4.56E-08
3217	420754.63	3734767.22	1.08E-07	4.92E-07	1.08E-09	6.01E-07	1.48E-08	6.73E-08	0.00E+00	8.21E-08	9.06E-09	3.09E-08	0.00E+00	4.00E-08
3218	420745.45	3734771.07	9.36E-08	4.28E-07	9.35E-10	5.22E-07	1.28E-08	5.85E-08	0.00E+00	7.13E-08	7.87E-09	2.69E-08	0.00E+00	3.48E-08
3219	420972.97	3734531.37	1.22E-07	5.57E-07	1.22E-09	6.80E-07	1.67E-08	7.62E-08	0.00E+00	9.29E-08	1.03E-08	3.50E-08	0.00E+00	4.53E-08
3220	420973.24	3734521.38	1.14E-07	5.22E-07	1.14E-09	6.38E-07	1.57E-08	7.14E-08	0.00E+00	8.71E-08	9.61E-09	3.28E-08	0.00E+00	4.24E-08
3221	420973.5	3734511.4	1.06E-07	4.86E-07	1.06E-09	5.93E-07	1.46E-08	6.64E-08	0.00E+00	8.10E-08	8.94E-09	3.05E-08	0.00E+00	3.95E-08

3222	420981.12	3734568.59	1.36E-07	6.20E-07	1.36E-09	7.57E-07	1.86E-08	8.48E-08	0.00E+00	1.03E-07	1.14E-08	3.90E-08	0.00E+00	5.04E-08
3223	420977.26	3734577.49	1.45E-07	6.62E-07	1.45E-09	8.08E-07	1.98E-08	9.05E-08	0.00E+00	1.10E-07	1.22E-08	4.16E-08	0.00E+00	5.38E-08
3224	420973.4	3734586.39	1.55E-07	7.07E-07	1.55E-09	8.63E-07	2.12E-08	9.67E-08	0.00E+00	1.18E-07	1.30E-08	4.44E-08	0.00E+00	5.75E-08
3225	420969.54	3734595.29	1.65E-07	7.53E-07	1.65E-09	9.19E-07	2.26E-08	1.03E-07	0.00E+00	1.25E-07	1.38E-08	4.73E-08	0.00E+00	6.12E-08
3226	420965.68	3734604.19	1.74E-07	7.96E-07	1.74E-09	9.72E-07	2.39E-08	1.09E-07	0.00E+00	1.33E-07	1.47E-08	5.00E-08	0.00E+00	6.47E-08
3227	420961.82	3734613.09	1.83E-07	8.38E-07	1.83E-09	1.02E-06	2.51E-08	1.15E-07	0.00E+00	1.40E-07	1.54E-08	5.27E-08	0.00E+00	6.81E-08
3228	420957.96	3734621.99	1.92E-07	8.78E-07	1.92E-09	1.07E-06	2.63E-08	1.20E-07	0.00E+00	1.46E-07	1.62E-08	5.52E-08	0.00E+00	7.14E-08
3229	420954.11	3734630.89	2.00E-07	9.15E-07	2.00E-09	1.12E-06	2.74E-08	1.25E-07	0.00E+00	1.53E-07	1.68E-08	5.75E-08	0.00E+00	7.44E-08
3230	420950.25	3734639.79	2.07E-07	9.47E-07	2.07E-09	1.16E-06	2.84E-08	1.29E-07	0.00E+00	1.58E-07	1.74E-08	5.95E-08	0.00E+00	7.69E-08
3231	420946.39	3734648.7	2.13E-07	9.72E-07	2.12E-09	1.19E-06	2.91E-08	1.33E-07	0.00E+00	1.62E-07	1.79E-08	6.11E-08	0.00E+00	7.90E-08
3232	420942.53	3734657.6	2.17E-07	9.91E-07	2.17E-09	1.21E-06	2.97E-08	1.35E-07	0.00E+00	1.65E-07	1.82E-08	6.23E-08	0.00E+00	8.05E-08
3233	420938.67	3734666.5	2.19E-07	1.00E-06	2.19E-09	1.22E-06	3.00E-08	1.37E-07	0.00E+00	1.67E-07	1.84E-08	6.30E-08	0.00E+00	8.14E-08
3234	420934.81	3734675.4	2.20E-07	1.01E-06	2.20E-09	1.23E-06	3.02E-08	1.38E-07	0.00E+00	1.68E-07	1.85E-08	6.34E-08	0.00E+00	8.19E-08
3235	420930.95	3734684.3	2.21E-07	1.01E-06	2.20E-09	1.23E-06	3.02E-08	1.38E-07	0.00E+00	1.68E-07	1.86E-08	6.34E-08	0.00E+00	8.19E-08
3236	420927.09	3734693.2	2.19E-07	1.00E-06	2.19E-09	1.23E-06	3.01E-08	1.37E-07	0.00E+00	1.67E-07	1.85E-08	6.31E-08	0.00E+00	8.15E-08
3237	420923.23	3734702.1	2.17E-07	9.93E-07	2.17E-09	1.21E-06	2.98E-08	1.36E-07	0.00E+00	1.66E-07	1.83E-08	6.24E-08	0.00E+00	8.07E-08
3238	420919.37	3734711	2.13E-07	9.75E-07	2.13E-09	1.19E-06	2.92E-08	1.33E-07	0.00E+00	1.63E-07	1.79E-08	6.13E-08	0.00E+00	7.92E-08
3239	420906.57	3734723.66	2.13E-07	9.72E-07	2.13E-09	1.19E-06	2.91E-08	1.33E-07	0.00E+00	1.62E-07	1.79E-08	6.11E-08	0.00E+00	7.90E-08
3240	420897.62	3734727.41	2.16E-07	9.89E-07	2.16E-09	1.21E-06	2.96E-08	1.35E-07	0.00E+00	1.65E-07	1.82E-08	6.21E-08	0.00E+00	8.03E-08
3241	420888.67	3734731.16	2.19E-07	1.00E-06	2.19E-09	1.22E-06	3.00E-08	1.37E-07	0.00E+00	1.67E-07	1.84E-08	6.29E-08	0.00E+00	8.13E-08
3242	420834.99	3734753.66	1.98E-07	9.04E-07	1.98E-09	1.10E-06	2.71E-08	1.24E-07	0.00E+00	1.51E-07	1.66E-08	5.68E-08	0.00E+00	7.34E-08
3243	420826.04	3734757.41	1.88E-07	8.59E-07	1.88E-09	1.05E-06	2.57E-08	1.17E-07	0.00E+00	1.43E-07	1.58E-08	5.40E-08	0.00E+00	6.98E-08
3244	420817.09	3734761.16	1.77E-07	8.07E-07	1.77E-09	9.86E-07	2.42E-08	1.10E-07	0.00E+00	1.35E-07	1.49E-08	5.07E-08	0.00E+00	6.56E-08
3245	420808.14	3734764.91	1.64E-07	7.52E-07	1.64E-09	9.18E-07	2.25E-08	1.03E-07	0.00E+00	1.25E-07	1.38E-08	4.72E-08	0.00E+00	6.11E-08
3246	420799.2	3734768.66	1.51E-07	6.91E-07	1.51E-09	8.44E-07	2.07E-08	9.45E-08	0.00E+00	1.15E-07	1.27E-08	4.35E-08	0.00E+00	5.62E-08
3247	420790.25	3734772.41	1.38E-07	6.32E-07	1.38E-09	7.71E-07	1.89E-08	8.64E-08	0.00E+00	1.05E-07	1.16E-08	3.97E-08	0.00E+00	5.13E-08
3248	420781.3	3734776.16	1.25E-07	5.71E-07	1.25E-09	6.97E-07	1.71E-08	7.80E-08	0.00E+00	9.52E-08	1.05E-08	3.59E-08	0.00E+00	4.64E-08
3249	420772.35	3734779.91	1.12E-07	5.11E-07	1.12E-09	6.24E-07	1.53E-08	6.99E-08	0.00E+00	8.52E-08	9.40E-09	3.21E-08	0.00E+00	4.15E-08
3250	420763.41	3734783.66	9.93E-08	4.54E-07	9.92E-10	5.54E-07	1.36E-08	6.21E-08	0.00E+00	7.57E-08	8.35E-09	2.85E-08	0.00E+00	3.69E-08
3251	420754.46	3734787.41	8.75E-08	4.00E-07	8.75E-10	4.89E-07	1.20E-08	5.47E-08	0.00E+00	6.67E-08	7.36E-09	2.52E-08	0.00E+00	3.25E-08
3252	420745.51	3734791.16	7.67E-08	3.51E-07	7.66E-10	4.28E-07	1.05E-08	4.79E-08	0.00E+00	5.85E-08	6.45E-09	2.20E-08	0.00E+00	2.85E-08
3253	420992.96	3734531.9	1.02E-07	4.66E-07	1.02E-09	5.69E-07	1.40E-08	6.37E-08	0.00E+00	7.77E-08	8.58E-09	2.93E-08	0.00E+00	3.79E-08
3254	420993.23	3734521.92	9.54E-08	4.36E-07	9.54E-10	5.33E-07	1.31E-08	5.97E-08	0.00E+00	7.27E-08	8.03E-09	2.74E-08	0.00E+00	3.54E-08
3255	420993.5	3734511.93	8.89E-08	4.06E-07	8.88E-10	4.96E-07	1.22E-08	5.55E-08	0.00E+00	6.77E-08	7.48E-09	2.55E-08	0.00E+00	3.30E-08
3256	420992.9	3734588.06	1.31E-07	5.98E-07	1.31E-09	7.31E-07	1.79E-08	8.18E-08	0.00E+00	9.98E-08	1.10E-08	3.76E-08	0.00E+00	4.86E-08
3257	420988.94	3734597.19	1.39E-07	6.38E-07	1.39E-09	7.78E-07	1.91E-08	8.72E-08	0.00E+00	1.06E-07	1.17E-08	4.01E-08	0.00E+00	5.18E-08
3258	420984.98	3734606.32	1.48E-07	6.76E-07	1.48E-09	8.25E-07	2.03E-08	9.24E-08	0.00E+00	1.13E-07	1.24E-08	4.25E-08	0.00E+00	5.49E-08
3259	420981.03	3734615.45	1.56E-07	7.12E-07	1.56E-09	8.70E-07	2.14E-08	9.74E-08	0.00E+00	1.19E-07	1.31E-08	4.48E-08	0.00E+00	5.79E-08
3260	420977.07	3734624.58	1.63E-07	7.47E-07	1.63E-09	9.13E-07	2.24E-08	1.02E-07	0.00E+00	1.25E-07	1.38E-08	4.70E-08	0.00E+00	6.07E-08
3261	420973.11	3734633.71	1.71E-07	7.80E-07	1.71E-09	9.53E-07	2.34E-08	1.07E-07	0.00E+00	1.30E-07	1.44E-08	4.90E-08	0.00E+00	6.34E-08
3262	420969.15	3734642.84	1.77E-07	8.10E-07	1.77E-09	9.89E-07	2.43E-08	1.11E-07	0.00E+00	1.35E-07	1.49E-08	5.09E-08	0.00E+00	6.58E-08
3263	420965.19	3734651.97	1.83E-07	8.36E-07	1.83E-09	1.02E-06	2.51E-08	1.14E-07	0.00E+00	1.39E-07	1.54E-08	5.25E-08	0.00E+00	6.79E-08
3264	420961.23	3734661.1	1.87E-07	8.55E-07	1.87E-09	1.04E-06	2.56E-08	1.17E-07	0.00E+00	1.43E-07	1.57E-08	5.38E-08	0.00E+00	6.95E-08
3265	420957.28	3734670.23	1.90E-07	8.69E-07	1.90E-09	1.06E-06	2.60E-08	1.19E-07	0.00E+00	1.45E-07	1.60E-08	5.46E-08	0.00E+00	7.06E-08
3266	420953.32	3734679.36	1.92E-07	8.78E-07	1.92E-09	1.07E-06	2.63E-08	1.20E-07	0.00E+00	1.46E-07	1.62E-08	5.52E-08	0.00E+00	7.13E-08
3267	420949.36	3734688.49	1.93E-07	8.83E-07	1.93E-09	1.08E-06	2.65E-08	1.21E-07	0.00E+00	1.47E-07	1.62E-08	5.55E-08	0.00E+00	7.17E-08
3268	420945.4	3734697.62	1.93E-07	8.83E-07	1.93E-09	1.08E-06	2.65E-08	1.21E-07	0.00E+00	1.47E-07	1.62E-08	5.55E-08	0.00E+00	7.17E-08
3269	420941.44	3734706.75	1.92E-07	8.78E-07	1.92E-09	1.07E-06	2.63E-08	1.20E-07	0.00E+00	1.46E-07	1.62E-08	5.52E-08	0.00E+00	7.14E-08
3270	420937.49	3734715.87	1.89E-07	8.66E-07	1.89E-09	1.06E-06	2.60E-08	1.18E-07	0.00E+00	1.44E-07	1.59E-08	5.44E-08	0.00E+00	7.04E-08
3271	420933.53	3734725	1.86E-07	8.50E-07	1.86E-09	1.04E-06	2.55E-08	1.16E-07	0.00E+00	1.42E-07	1.56E-08	5.34E-08	0.00E+00	6.90E-08
3272	420883.68	3734753.37	1.93E-07	8.82E-07	1.93E-09	1.08E-06	2.64E-08	1.21E-07	0.00E+00	1.47E-07	1.62E-08	5.54E-08	0.00E+00	7.16E-08
3273	420874.51	3734757.21	1.91E-07	8.74E-07	1.91E-09	1.07E-06	2.62E-08	1.20E-07	0.00E+00	1.46E-07	1.61E-08	5.49E-08	0.00E+00	7.10E-08
3274	420865.33	3734761.06	1.88E-07	8.59E-07	1.88E-09	1.05E-06	2.58E-08	1.17E-07	0.00E+00	1.43E-07	1.58E-08	5.40E-08	0.00E+00	6.98E-08
3275	420856.15	3734764.91	1.83E-07	8.37E-07	1.83E-09	1.02E-06	2.51E-08	1.14E-07	0.00E+00	1.40E-07	1.54E-08	5.26E-08	0.00E+00	6.80E-08
3276	420846.98	3734768.75	1.76E-07	8.06E-07	1.76E-09	9.84E-07	2.42E-08	1.10E-07	0.00E+00	1.34E-07	1.48E-08	5.06E-08	0.00E+00	6.55E-08
3277	420837.8	3734772.6	1.68E-07	7.68E-07	1.68E-09	9.38E-07	2.30E-08	1.05E-07	0.00E+00	1.28E-07	1.41E-08	4.83E-08	0.00E+00	6.24E-08
3278	420828.62	3734776.45	1.59E-07	7.26E-07	1.59E-09	8.86E-07	2.18E-08	9.92E-08	0.00E+00	1.21E-07	1.34E-08	4.56E-08	0.00E+00	5.90E-08
3279	420819.45	3734780.29	1.49E-07	6.79E-07	1.48E-09	8.29E-07	2.04E-08	9.29E-08	0.00E+00	1.13E-07	1.25E-08	4.27E-08	0.00E+00	5.52E-08
3280	420810.27	3734784.14	1.38E-07	6.29E-07	1.38E-09	7.68E-07	1.89E-08	8.60E-08	0.00E+00	1.05E-07	1.16E-08	3.95E-08	0.00E+00	5.11E-08
3281	420801.09	3734787.98	1.27E-07	5.79E-07	1.27E-09	7.07E-07	1.74E-08	7.92E-08	0.00E+00	9.66E-08	1.07E-08	3.64E-08	0.00E+00	4.71E-08
3282	420791.92	3734791.83	1.16E-07	5.28E-07	1.15E-09	6.45E-07	1.58E-08	7.22E-08	0.00E+00	8.81E-08	9.72E-09	3.32E-08	0.00E+00	4.29E-08
3283	420782.74	3734795.68	1.04E-07	4.76E-07	1.04E-09	5.82E-07	1.43E-08	6.52E-08	0.00E+00	7.94E-08	8.77E-09	2.99E-08	0.00E+00	3.87E-08
3284	420773.56	3734799.52	9.32E-08	4.26E-07	9.32E-10	5.20E-07	1.28E-08	5.83E-08	0.00E+00	7.11E-08	7.84E-09	2.68E-08	0.00E+00	3.46E-08
3285	420764.38	3734803.37	8.28E-08	3.78E-07	8.27E-10	4.62E-07	1.13E-08	5.18E-08	0.00E+00	6.31E-08	6.96E-09	2.38E-08	0.00E+00	3.08E-08
3286	420755.21	3734807.22	7.30E-08	3.34E-07	7.30E-10	4.08E-07	1.00E-08	4.57E-08	0.00E+00	5.57E-08	6.14E-09	2.10E-08	0.00E+00	2.71E-08
3287	420746.03	3734811.06	6.41E-08	2.93E-07	6.40E-10	3.58E-07	8.78E-09	4.01E-08	0.00E+00	4.88E-08	5.39E-09	1.84E-08	0.00E+00	2.38E-08
3288	421012.96	3734532.43	8.60E-08	3.93E-07	8.59E-10	4.80E-07	1.18E-08	5.37E-08	0.00E+00	6.55E-08	7.23E-09	2.47E-08	0.00E+00	3.19E-08
3289	421013.22	3734522.45	8.06E-08	3.68E-07	8.06E-10	4.50E-07	1.10E-08	5.04E-08	0.00E+00	6.14E-08	6.78E-09	2.32E-08	0.00E+00	2.99E-08
3290	421013.49	3734512.47	7.50E-08	3.43E-07	7.49E-10	4.19E-07	1.03E-08	4.69E-08	0.00E+00	5.72E-08	6.31E-09	2.15E-08	0.00E+00	2.79E-08
3291	421024.94	3734560.81	9.05E-08	4.14E-07	9.05E-10	5.05E-07	1.24E-08	5.66E-08	0.00E+00	6.90E-08	7.62E-09	2.60E-08	0.00E+00	3.36E-08
3292	421021.07	3734569.74	9.71E-08	4.44E-07	9.71E-10	5.42E-07	1.33E-08	6.07E-08	0.00E+00	7.40E-08	8.17E-09	2.79E-08	0.00E+00	3.61E-08
3293	421017.19	3734578.67	1.04E-07	4.74E-07	1.04E-09	5.79E-07	1.42E-08	6.48E-08	0.00E+00	7.90E-08	8.72E-09	2.98E-08	0.00E+00	3.85E-08
3294	420993.96	3734632.26	1.44E-07	6.57E-07	1.44E-09	8.02E-07	1.97E-08	8.98E-08	0.00E+00	1.10E-07	1.21E-08	4.13E-08	0.00E+00	5.34E-08
3295	420990.09	3734641.19	1.49E-07	6.83E-07	1.49E-09	8.34E-07	2.05E-08	9.34E-08	0.00E+00	1.14E-07	1.26E-08	4.29E-08	0.00E+00	5.55E-08
3296	420986.22	3734650.12	1.55E-07	7.09E-07	1.55E-09	8.66E-07	2.13E-08	9.69E-08	0.00E+00	1.18E-07	1.30E-08	4.46E-08	0.00E+00	5.76E-08

3297	420982.35	3734659.05	1.60E-07	7.32E-07	1.60E-09	8.93E-07	2.19E-08	1.00E-07	0.00E+00	1.22E-07	1.35E-08	4.60E-08	0.00E+00	5.94E-08
3298	420978.47	3734667.98	1.64E-07	7.48E-07	1.64E-09	9.14E-07	2.24E-08	1.02E-07	0.00E+00	1.25E-07	1.38E-08	4.70E-08	0.00E+00	6.08E-08
3299	420974.6	3734676.91	1.66E-07	7.61E-07	1.66E-09	9.29E-07	2.28E-08	1.04E-07	0.00E+00	1.27E-07	1.40E-08	4.78E-08	0.00E+00	6.18E-08
3300	420970.73	3734685.84	1.68E-07	7.70E-07	1.68E-09	9.40E-07	2.31E-08	1.05E-07	0.00E+00	1.28E-07	1.42E-08	4.84E-08	0.00E+00	6.26E-08
3301	420966.86	3734694.78	1.70E-07	7.76E-07	1.70E-09	9.47E-07	2.33E-08	1.06E-07	0.00E+00	1.29E-07	1.43E-08	4.88E-08	0.00E+00	6.31E-08
3302	420962.99	3734703.71	1.70E-07	7.78E-07	1.70E-09	9.50E-07	2.33E-08	1.06E-07	0.00E+00	1.30E-07	1.43E-08	4.89E-08	0.00E+00	6.33E-08
3303	420959.11	3734712.64	1.70E-07	7.76E-07	1.70E-09	9.47E-07	2.33E-08	1.06E-07	0.00E+00	1.29E-07	1.43E-08	4.87E-08	0.00E+00	6.30E-08
3304	420955.24	3734721.57	1.68E-07	7.68E-07	1.68E-09	9.37E-07	2.30E-08	1.05E-07	0.00E+00	1.28E-07	1.41E-08	4.83E-08	0.00E+00	6.24E-08
3305	420951.37	3734730.5	1.66E-07	7.57E-07	1.66E-09	9.25E-07	2.27E-08	1.04E-07	0.00E+00	1.26E-07	1.39E-08	4.76E-08	0.00E+00	6.15E-08
3306	420934.65	3734752.12	1.63E-07	7.47E-07	1.63E-09	9.12E-07	2.24E-08	1.02E-07	0.00E+00	1.24E-07	1.37E-08	4.69E-08	0.00E+00	6.07E-08
3307	420925.67	3734755.89	1.66E-07	7.61E-07	1.66E-09	9.29E-07	2.28E-08	1.04E-07	0.00E+00	1.27E-07	1.40E-08	4.78E-08	0.00E+00	6.18E-08
3308	420916.69	3734759.65	1.69E-07	7.71E-07	1.69E-09	9.42E-07	2.31E-08	1.05E-07	0.00E+00	1.29E-07	1.42E-08	4.85E-08	0.00E+00	6.27E-08
3309	420907.72	3734763.41	1.70E-07	7.78E-07	1.70E-09	9.50E-07	2.33E-08	1.06E-07	0.00E+00	1.30E-07	1.43E-08	4.89E-08	0.00E+00	6.32E-08
3310	420898.74	3734767.18	1.72E-07	7.85E-07	1.72E-09	9.58E-07	2.35E-08	1.07E-07	0.00E+00	1.31E-07	1.44E-08	4.93E-08	0.00E+00	6.38E-08
3311	420889.76	3734770.94	1.71E-07	7.81E-07	1.71E-09	9.54E-07	2.34E-08	1.07E-07	0.00E+00	1.30E-07	1.44E-08	4.91E-08	0.00E+00	6.35E-08
3312	420880.78	3734774.7	1.69E-07	7.71E-07	1.69E-09	9.42E-07	2.31E-08	1.05E-07	0.00E+00	1.29E-07	1.42E-08	4.85E-08	0.00E+00	6.27E-08
3313	420871.81	3734778.46	1.65E-07	7.56E-07	1.65E-09	9.23E-07	2.27E-08	1.03E-07	0.00E+00	1.26E-07	1.39E-08	4.75E-08	0.00E+00	6.14E-08
3314	420862.83	3734782.23	1.61E-07	7.34E-07	1.61E-09	8.97E-07	2.20E-08	1.00E-07	0.00E+00	1.22E-07	1.35E-08	4.62E-08	0.00E+00	5.97E-08
3315	420853.85	3734785.99	1.55E-07	7.08E-07	1.55E-09	8.64E-07	2.12E-08	9.68E-08	0.00E+00	1.18E-07	1.30E-08	4.45E-08	0.00E+00	5.75E-08
3316	420844.87	3734789.75	1.48E-07	6.76E-07	1.48E-09	8.25E-07	2.03E-08	9.24E-08	0.00E+00	1.13E-07	1.24E-08	4.25E-08	0.00E+00	5.49E-08
3317	420835.9	3734793.52	1.40E-07	6.40E-07	1.40E-09	7.81E-07	1.92E-08	8.75E-08	0.00E+00	1.07E-07	1.18E-08	4.02E-08	0.00E+00	5.20E-08
3318	420826.92	3734797.28	1.31E-07	6.01E-07	1.31E-09	7.34E-07	1.80E-08	8.22E-08	0.00E+00	1.00E-07	1.11E-08	3.78E-08	0.00E+00	4.88E-08
3319	420817.94	3734801.04	1.22E-07	5.60E-07	1.22E-09	6.84E-07	1.68E-08	7.66E-08	0.00E+00	9.34E-08	1.03E-08	3.52E-08	0.00E+00	4.55E-08
3320	420808.96	3734804.81	1.13E-07	5.17E-07	1.13E-09	6.32E-07	1.55E-08	7.08E-08	0.00E+00	8.63E-08	9.52E-09	3.25E-08	0.00E+00	4.20E-08
3321	420799.99	3734808.57	1.04E-07	4.75E-07	1.04E-09	5.80E-07	1.42E-08	6.49E-08	0.00E+00	7.92E-08	8.74E-09	2.98E-08	0.00E+00	3.86E-08
3322	420791.01	3734812.33	9.45E-08	4.32E-07	9.44E-10	5.27E-07	1.29E-08	5.91E-08	0.00E+00	7.20E-08	7.95E-09	2.71E-08	0.00E+00	3.51E-08
3323	420782.03	3734816.09	8.52E-08	3.90E-07	8.52E-10	4.76E-07	1.17E-08	5.33E-08	0.00E+00	6.50E-08	7.17E-09	2.45E-08	0.00E+00	3.17E-08
3324	420773.05	3734819.86	7.66E-08	3.50E-07	7.65E-10	4.27E-07	1.05E-08	4.79E-08	0.00E+00	5.84E-08	6.44E-09	2.20E-08	0.00E+00	2.84E-08
3325	420764.08	3734823.62	6.86E-08	3.14E-07	6.85E-10	3.83E-07	9.40E-09	4.29E-08	0.00E+00	5.23E-08	5.77E-09	1.97E-08	0.00E+00	2.55E-08
3326	420755.1	3734827.38	6.09E-08	2.78E-07	6.09E-10	3.40E-07	8.35E-09	3.81E-08	0.00E+00	4.64E-08	5.12E-09	1.75E-08	0.00E+00	2.26E-08
3327	420746.12	3734831.15	5.35E-08	2.44E-07	5.34E-10	2.98E-07	7.33E-09	3.34E-08	0.00E+00	4.08E-08	4.50E-09	1.54E-08	0.00E+00	1.99E-08
3328	421032.95	3734532.97	7.30E-08	3.34E-07	7.29E-10	4.07E-07	1.00E-08	4.56E-08	0.00E+00	5.56E-08	6.14E-09	2.10E-08	0.00E+00	2.71E-08
3329	421033.22	3734522.98	6.84E-08	3.13E-07	6.83E-10	3.82E-07	9.37E-09	4.27E-08	0.00E+00	5.21E-08	5.75E-09	1.96E-08	0.00E+00	2.54E-08
3330	421033.48	3734513	6.38E-08	2.92E-07	6.37E-10	3.56E-07	8.74E-09	3.99E-08	0.00E+00	4.86E-08	5.36E-09	1.83E-08	0.00E+00	2.37E-08
3331	421064.9	3734561.93	6.74E-08	3.08E-07	6.74E-10	3.76E-07	9.24E-09	4.22E-08	0.00E+00	5.14E-08	5.67E-09	1.94E-08	0.00E+00	2.51E-08
3332	421061.02	3734570.88	7.23E-08	3.31E-07	7.23E-10	4.04E-07	9.91E-09	4.52E-08	0.00E+00	5.51E-08	6.08E-09	2.08E-08	0.00E+00	2.69E-08
3333	421057.14	3734579.83	7.72E-08	3.53E-07	7.72E-10	4.31E-07	1.06E-08	4.83E-08	0.00E+00	5.89E-08	6.50E-09	2.22E-08	0.00E+00	2.87E-08
3334	421053.26	3734588.79	8.23E-08	3.76E-07	8.22E-10	4.59E-07	1.13E-08	5.14E-08	0.00E+00	6.27E-08	6.92E-09	2.36E-08	0.00E+00	3.06E-08
3335	421049.38	3734597.74	8.73E-08	3.99E-07	8.72E-10	4.87E-07	1.20E-08	5.45E-08	0.00E+00	6.65E-08	7.34E-09	2.51E-08	0.00E+00	3.24E-08
3336	421045.49	3734606.7	9.22E-08	4.22E-07	9.22E-10	5.15E-07	1.26E-08	5.76E-08	0.00E+00	7.03E-08	7.76E-09	2.65E-08	0.00E+00	3.43E-08
3337	421041.61	3734615.65	9.71E-08	4.44E-07	9.70E-10	5.42E-07	1.33E-08	6.07E-08	0.00E+00	7.40E-08	8.17E-09	2.79E-08	0.00E+00	3.61E-08
3338	421037.73	3734624.6	1.02E-07	4.66E-07	1.02E-09	5.69E-07	1.40E-08	6.37E-08	0.00E+00	7.77E-08	8.57E-09	2.93E-08	0.00E+00	3.79E-08
3339	421033.85	3734633.56	1.07E-07	4.87E-07	1.07E-09	5.95E-07	1.46E-08	6.66E-08	0.00E+00	8.13E-08	8.97E-09	3.06E-08	0.00E+00	3.96E-08
3340	421029.97	3734642.51	1.11E-07	5.08E-07	1.11E-09	6.20E-07	1.52E-08	6.94E-08	0.00E+00	8.47E-08	9.34E-09	3.19E-08	0.00E+00	4.13E-08
3341	421026.08	3734651.46	1.15E-07	5.26E-07	1.15E-09	6.43E-07	1.58E-08	7.20E-08	0.00E+00	8.77E-08	9.68E-09	3.31E-08	0.00E+00	4.28E-08
3342	421022.2	3734660.42	1.19E-07	5.43E-07	1.19E-09	6.63E-07	1.63E-08	7.43E-08	0.00E+00	9.06E-08	1.00E-08	3.41E-08	0.00E+00	4.41E-08
3343	421018.32	3734669.37	1.22E-07	5.59E-07	1.22E-09	6.82E-07	1.68E-08	7.64E-08	0.00E+00	9.32E-08	1.03E-08	3.51E-08	0.00E+00	4.54E-08
3344	421014.44	3734678.33	1.26E-07	5.75E-07	1.26E-09	7.02E-07	1.72E-08	7.86E-08	0.00E+00	9.58E-08	1.06E-08	3.61E-08	0.00E+00	4.67E-08
3345	420995.03	3734723.09	1.34E-07	6.11E-07	1.33E-09	7.45E-07	1.83E-08	8.35E-08	0.00E+00	1.02E-07	1.12E-08	3.84E-08	0.00E+00	4.96E-08
3346	420983.38	3734749.96	1.31E-07	5.99E-07	1.31E-09	7.31E-07	1.80E-08	8.19E-08	0.00E+00	9.99E-08	1.10E-08	3.76E-08	0.00E+00	4.87E-08
3347	420979.5	3734758.91	1.29E-07	5.91E-07	1.29E-09	7.22E-07	1.77E-08	8.09E-08	0.00E+00	9.86E-08	1.09E-08	3.72E-08	0.00E+00	4.81E-08
3348	420975.62	3734767.86	1.27E-07	5.82E-07	1.27E-09	7.11E-07	1.75E-08	7.96E-08	0.00E+00	9.71E-08	1.07E-08	3.66E-08	0.00E+00	4.73E-08
3349	420962.74	3734780.59	1.29E-07	5.88E-07	1.29E-09	7.18E-07	1.76E-08	8.04E-08	0.00E+00	9.80E-08	1.08E-08	3.70E-08	0.00E+00	4.78E-08
3350	420953.74	3734784.36	1.31E-07	6.01E-07	1.31E-09	7.33E-07	1.80E-08	8.22E-08	0.00E+00	1.00E-07	1.11E-08	3.78E-08	0.00E+00	4.88E-08
3351	420944.73	3734788.14	1.34E-07	6.11E-07	1.34E-09	7.47E-07	1.83E-08	8.36E-08	0.00E+00	1.02E-07	1.13E-08	3.84E-08	0.00E+00	4.97E-08
3352	420935.73	3734791.91	1.35E-07	6.19E-07	1.35E-09	7.56E-07	1.86E-08	8.47E-08	0.00E+00	1.03E-07	1.14E-08	3.89E-08	0.00E+00	5.03E-08
3353	420926.73	3734795.68	1.36E-07	6.24E-07	1.36E-09	7.62E-07	1.87E-08	8.53E-08	0.00E+00	1.04E-07	1.15E-08	3.92E-08	0.00E+00	5.07E-08
3354	420917.73	3734799.45	1.37E-07	6.24E-07	1.36E-09	7.62E-07	1.87E-08	8.53E-08	0.00E+00	1.04E-07	1.15E-08	3.92E-08	0.00E+00	5.07E-08
3355	420908.73	3734803.23	1.36E-07	6.21E-07	1.36E-09	7.58E-07	1.86E-08	8.49E-08	0.00E+00	1.03E-07	1.14E-08	3.90E-08	0.00E+00	5.04E-08
3356	420899.73	3734807	1.34E-07	6.14E-07	1.34E-09	7.49E-07	1.84E-08	8.39E-08	0.00E+00	1.02E-07	1.13E-08	3.86E-08	0.00E+00	4.99E-08
3357	420890.73	3734810.77	1.32E-07	6.02E-07	1.32E-09	7.35E-07	1.81E-08	8.23E-08	0.00E+00	1.00E-07	1.11E-08	3.78E-08	0.00E+00	4.89E-08
3358	420881.73	3734814.54	1.28E-07	5.87E-07	1.28E-09	7.16E-07	1.76E-08	8.02E-08	0.00E+00	9.78E-08	1.08E-08	3.69E-08	0.00E+00	4.77E-08
3359	420872.73	3734818.32	1.24E-07	5.68E-07	1.24E-09	6.93E-07	1.70E-08	7.76E-08	0.00E+00	9.46E-08	1.04E-08	3.57E-08	0.00E+00	4.61E-08
3360	420863.73	3734822.09	1.19E-07	5.45E-07	1.19E-09	6.66E-07	1.63E-08	7.45E-08	0.00E+00	9.09E-08	1.00E-08	3.43E-08	0.00E+00	4.43E-08
3361	420854.73	3734825.86	1.14E-07	5.20E-07	1.14E-09	6.35E-07	1.56E-08	7.11E-08	0.00E+00	8.67E-08	9.57E-09	3.27E-08	0.00E+00	4.23E-08
3362	420845.73	3734829.63	1.08E-07	4.93E-07	1.08E-09	6.01E-07	1.48E-08	6.73E-08	0.00E+00	8.21E-08	9.06E-09	3.10E-08	0.00E+00	4.00E-08
3363	420836.73	3734833.41	1.01E-07	4.63E-07	1.01E-09	5.65E-07	1.39E-08	6.33E-08	0.00E+00	7.72E-08	8.52E-09	2.91E-08	0.00E+00	3.76E-08
3364	420827.73	3734837.18	9.45E-08	4.32E-07	9.45E-10	5.28E-07	1.30E-08	5.91E-08	0.00E+00	7.21E-08	7.95E-09	2.72E-08	0.00E+00	3.51E-08
3365	420818.73	3734840.95	8.76E-08	4.01E-07	8.76E-10	4.89E-07	1.20E-08	5.48E-08	0.00E+00	6.68E-08	7.37E-09	2.52E-08	0.00E+00	3.26E-08
3366	420809.73	3734844.72	8.07E-08	3.69E-07	8.06E-10	4.50E-07	1.11E-08	5.04E-08	0.00E+00	6.15E-08	6.79E-09	2.32E-08	0.00E+00	3.00E-08
3367	420800.73	3734848.5	7.38E-08	3.37E-07	7.38E-10	4.12E-07	1.01E-08	4.61E-08	0.00E+00	5.63E-08	6.21E-09	2.12E-08	0.00E+00	2.74E-08
3368	420791.73	3734852.27	6.71E-08	3.07E-07	6.71E-10	3.75E-07	9.20E-09	4.20E-08	0.00E+00	5.11E-08	5.65E-09	1.93E-08	0.00E+00	2.49E-08
3369	420782.73	3734856.04	6.07E-08	2.77E-07	6.06E-10	3.39E-07	8.32E-09	3.79E-08	0.00E+00	4.63E-08	5.10E-09	1.74E-08	0.00E+00	2.25E-08
3370	420773.73	3734859.81	5.45E-08	2.49E-07	5.45E-10	3.04E-07	7.48E-09	3.41E-08	0.00E+00	4.16E-08	4.59E-09	1.57E-08	0.00E+00	2.03E-08
3371	420764.73	3734863.59	4.87E-08	2.23E-07	4.87E-10	2.72E-07	6.68E-09	3.05E-08	0.00E+00	3.71E-08	4.10E-09	1.40E-08	0.00E+00	1.81E-08

3372	420755.73	3734867.36	4.33E-08	1.98E-07	4.33E-10	2.42E-07	5.93E-09	2.71E-08	0.00E+00	3.30E-08	3.64E-09	1.24E-08	0.00E+00	1.61E-08
3373	420746.72	3734871.13	3.82E-08	1.75E-07	3.82E-10	2.13E-07	5.23E-09	2.39E-08	0.00E+00	2.91E-08	3.21E-09	1.10E-08	0.00E+00	1.42E-08
3374	421072.94	3734534.04	5.47E-08	2.50E-07	5.47E-10	3.06E-07	7.50E-09	3.42E-08	0.00E+00	4.17E-08	4.61E-09	1.57E-08	0.00E+00	2.03E-08
3375	421073.2	3734524.05	5.14E-08	2.35E-07	5.13E-10	2.87E-07	7.04E-09	3.21E-08	0.00E+00	3.91E-08	4.32E-09	1.48E-08	0.00E+00	1.91E-08
3376	421073.47	3734514.07	4.80E-08	2.20E-07	4.80E-10	2.68E-07	6.58E-09	3.00E-08	0.00E+00	3.66E-08	4.04E-09	1.38E-08	0.00E+00	1.78E-08
3377	421089.32	3734598.92	6.67E-08	3.05E-07	6.67E-10	3.72E-07	9.14E-09	4.17E-08	0.00E+00	5.09E-08	5.61E-09	1.92E-08	0.00E+00	2.48E-08
3378	421085.43	3734607.89	7.05E-08	3.22E-07	7.05E-10	3.94E-07	9.67E-09	4.41E-08	0.00E+00	5.38E-08	5.93E-09	2.03E-08	0.00E+00	2.62E-08
3379	421081.54	3734616.86	7.41E-08	3.39E-07	7.40E-10	4.14E-07	1.02E-08	4.63E-08	0.00E+00	5.65E-08	6.23E-09	2.13E-08	0.00E+00	2.75E-08
3380	421077.65	3734625.83	7.76E-08	3.55E-07	7.75E-10	4.33E-07	1.06E-08	4.85E-08	0.00E+00	5.91E-08	6.53E-09	2.23E-08	0.00E+00	2.88E-08
3381	421073.76	3734634.81	8.10E-08	3.70E-07	8.09E-10	4.52E-07	1.11E-08	5.06E-08	0.00E+00	6.17E-08	6.81E-09	2.33E-08	0.00E+00	3.01E-08
3382	421069.87	3734643.78	8.44E-08	3.86E-07	8.44E-10	4.71E-07	1.16E-08	5.28E-08	0.00E+00	6.43E-08	7.10E-09	2.43E-08	0.00E+00	3.14E-08
3383	421065.98	3734652.75	8.77E-08	4.01E-07	8.77E-10	4.90E-07	1.20E-08	5.49E-08	0.00E+00	6.69E-08	7.38E-09	2.52E-08	0.00E+00	3.26E-08
3384	421062.09	3734661.72	9.09E-08	4.16E-07	9.09E-10	5.07E-07	1.25E-08	5.68E-08	0.00E+00	6.93E-08	7.65E-09	2.61E-08	0.00E+00	3.38E-08
3385	421058.2	3734670.69	9.39E-08	4.29E-07	9.38E-10	5.24E-07	1.29E-08	5.87E-08	0.00E+00	7.15E-08	7.90E-09	2.70E-08	0.00E+00	3.49E-08
3386	421054.31	3734679.67	9.66E-08	4.41E-07	9.65E-10	5.39E-07	1.32E-08	6.04E-08	0.00E+00	7.36E-08	8.12E-09	2.77E-08	0.00E+00	3.59E-08
3387	421050.42	3734688.64	9.90E-08	4.53E-07	9.90E-10	5.53E-07	1.36E-08	6.19E-08	0.00E+00	7.55E-08	8.33E-09	2.84E-08	0.00E+00	3.68E-08
3388	421046.53	3734697.61	1.01E-07	4.63E-07	1.01E-09	5.65E-07	1.39E-08	6.33E-08	0.00E+00	7.72E-08	8.52E-09	2.91E-08	0.00E+00	3.76E-08
3389	421042.64	3734706.58	1.03E-07	4.73E-07	1.03E-09	5.78E-07	1.42E-08	6.47E-08	0.00E+00	7.89E-08	8.71E-09	2.97E-08	0.00E+00	3.84E-08
3390	421038.75	3734715.55	1.05E-07	4.82E-07	1.05E-09	5.88E-07	1.44E-08	6.59E-08	0.00E+00	8.03E-08	8.86E-09	3.03E-08	0.00E+00	3.91E-08
3391	421034.86	3734724.53	1.07E-07	4.88E-07	1.07E-09	5.96E-07	1.46E-08	6.67E-08	0.00E+00	8.13E-08	8.98E-09	3.07E-08	0.00E+00	3.96E-08
3392	421023.19	3734751.44	1.07E-07	4.91E-07	1.07E-09	6.00E-07	1.47E-08	6.72E-08	0.00E+00	8.19E-08	9.04E-09	3.09E-08	0.00E+00	3.99E-08
3393	421019.3	3734760.41	1.07E-07	4.90E-07	1.07E-09	5.98E-07	1.47E-08	6.69E-08	0.00E+00	8.16E-08	9.01E-09	3.08E-08	0.00E+00	3.98E-08
3394	420990.83	3734809.05	1.04E-07	4.74E-07	1.04E-09	5.79E-07	1.42E-08	6.49E-08	0.00E+00	7.91E-08	8.73E-09	2.98E-08	0.00E+00	3.85E-08
3395	420981.81	3734812.83	1.06E-07	4.84E-07	1.06E-09	5.90E-07	1.45E-08	6.61E-08	0.00E+00	8.06E-08	8.90E-09	3.04E-08	0.00E+00	3.93E-08
3396	420972.79	3734816.61	1.08E-07	4.92E-07	1.07E-09	6.00E-07	1.47E-08	6.72E-08	0.00E+00	8.19E-08	9.04E-09	3.09E-08	0.00E+00	3.99E-08
3397	420963.77	3734820.39	1.09E-07	4.98E-07	1.09E-09	6.08E-07	1.49E-08	6.81E-08	0.00E+00	8.30E-08	9.16E-09	3.13E-08	0.00E+00	4.04E-08
3398	420954.75	3734824.17	1.10E-07	5.03E-07	1.10E-09	6.14E-07	1.51E-08	6.88E-08	0.00E+00	8.38E-08	9.25E-09	3.16E-08	0.00E+00	4.09E-08
3399	420945.74	3734827.95	1.11E-07	5.06E-07	1.11E-09	6.18E-07	1.52E-08	6.92E-08	0.00E+00	8.43E-08	9.31E-09	3.18E-08	0.00E+00	4.11E-08
3400	420936.72	3734831.74	1.11E-07	5.06E-07	1.11E-09	6.18E-07	1.52E-08	6.92E-08	0.00E+00	8.44E-08	9.31E-09	3.18E-08	0.00E+00	4.11E-08
3401	420927.7	3734835.52	1.10E-07	5.04E-07	1.10E-09	6.15E-07	1.51E-08	6.89E-08	0.00E+00	8.40E-08	9.27E-09	3.17E-08	0.00E+00	4.09E-08
3402	420918.68	3734839.3	1.09E-07	4.98E-07	1.09E-09	6.08E-07	1.49E-08	6.81E-08	0.00E+00	8.30E-08	9.17E-09	3.13E-08	0.00E+00	4.05E-08
3403	420909.66	3734843.08	1.07E-07	4.90E-07	1.07E-09	5.98E-07	1.47E-08	6.70E-08	0.00E+00	8.17E-08	9.01E-09	3.08E-08	0.00E+00	3.98E-08
3404	420900.64	3734846.86	1.05E-07	4.79E-07	1.05E-09	5.85E-07	1.44E-08	6.55E-08	0.00E+00	7.99E-08	8.82E-09	3.01E-08	0.00E+00	3.89E-08
3405	420891.62	3734850.64	1.02E-07	4.65E-07	1.02E-09	5.68E-07	1.39E-08	6.36E-08	0.00E+00	7.75E-08	8.56E-09	2.92E-08	0.00E+00	3.78E-08
3406	420882.6	3734854.42	9.81E-08	4.49E-07	9.81E-10	5.48E-07	1.35E-08	6.14E-08	0.00E+00	7.48E-08	8.26E-09	2.82E-08	0.00E+00	3.65E-08
3407	420873.59	3734858.2	9.41E-08	4.30E-07	9.41E-10	5.25E-07	1.29E-08	5.88E-08	0.00E+00	7.17E-08	7.92E-09	2.70E-08	0.00E+00	3.50E-08
3408	420864.57	3734861.98	8.97E-08	4.10E-07	8.96E-10	5.01E-07	1.23E-08	5.61E-08	0.00E+00	6.84E-08	7.55E-09	2.58E-08	0.00E+00	3.33E-08
3409	420855.55	3734865.76	8.49E-08	3.88E-07	8.49E-10	4.74E-07	1.16E-08	5.31E-08	0.00E+00	6.47E-08	7.15E-09	2.44E-08	0.00E+00	3.16E-08
3410	420846.53	3734869.54	7.99E-08	3.66E-07	7.99E-10	4.46E-07	1.10E-08	5.00E-08	0.00E+00	6.09E-08	6.73E-09	2.30E-08	0.00E+00	2.97E-08
3411	420837.51	3734873.32	7.48E-08	3.42E-07	7.47E-10	4.17E-07	1.03E-08	4.68E-08	0.00E+00	5.70E-08	6.29E-09	2.15E-08	0.00E+00	2.78E-08
3412	420828.49	3734877.1	6.95E-08	3.18E-07	6.95E-10	3.88E-07	9.53E-09	4.35E-08	0.00E+00	5.30E-08	5.85E-09	2.00E-08	0.00E+00	2.58E-08
3413	420819.47	3734880.88	6.43E-08	2.94E-07	6.43E-10	3.59E-07	8.81E-09	4.02E-08	0.00E+00	4.90E-08	5.41E-09	1.85E-08	0.00E+00	2.39E-08
3414	420810.45	3734884.66	5.90E-08	2.70E-07	5.90E-10	3.29E-07	8.09E-09	3.69E-08	0.00E+00	4.50E-08	4.97E-09	1.70E-08	0.00E+00	2.19E-08
3415	420801.44	3734888.44	5.40E-08	2.47E-07	5.39E-10	3.01E-07	7.40E-09	3.37E-08	0.00E+00	4.11E-08	4.54E-09	1.55E-08	0.00E+00	2.01E-08
3416	420792.42	3734892.22	4.92E-08	2.25E-07	4.91E-10	2.74E-07	6.74E-09	3.07E-08	0.00E+00	3.75E-08	4.14E-09	1.41E-08	0.00E+00	1.83E-08
3417	420783.4	3734896	4.47E-08	2.04E-07	4.46E-10	2.49E-07	6.12E-09	2.79E-08	0.00E+00	3.40E-08	3.76E-09	1.28E-08	0.00E+00	1.66E-08
3418	420774.38	3734899.78	4.03E-08	1.84E-07	4.03E-10	2.25E-07	5.53E-09	2.52E-08	0.00E+00	3.08E-08	3.39E-09	1.16E-08	0.00E+00	1.50E-08
3419	420765.36	3734903.56	3.63E-08	1.66E-07	3.63E-10	2.03E-07	4.98E-09	2.27E-08	0.00E+00	2.77E-08	3.06E-09	1.04E-08	0.00E+00	1.35E-08
3420	420756.34	3734907.34	3.26E-08	1.49E-07	3.26E-10	1.82E-07	4.48E-09	2.04E-08	0.00E+00	2.49E-08	2.75E-09	9.38E-09	0.00E+00	1.21E-08
3421	420747.32	3734911.12	2.92E-08	1.33E-07	2.92E-10	1.63E-07	4.00E-09	1.82E-08	0.00E+00	2.22E-08	2.45E-09	8.38E-09	0.00E+00	1.08E-08
3422	421144.85	3734564.13	3.99E-08	1.82E-07	3.99E-10	2.23E-07	5.47E-09	2.50E-08	0.00E+00	3.04E-08	3.36E-09	1.15E-08	0.00E+00	1.48E-08
3423	421140.95	3734573.11	4.28E-08	1.96E-07	4.28E-10	2.39E-07	5.87E-09	2.68E-08	0.00E+00	3.26E-08	3.60E-09	1.23E-08	0.00E+00	1.59E-08
3424	421137.06	3734582.1	4.57E-08	2.09E-07	4.57E-10	2.55E-07	6.27E-09	2.86E-08	0.00E+00	3.49E-08	3.85E-09	1.31E-08	0.00E+00	1.70E-08
3425	421133.16	3734591.09	4.86E-08	2.22E-07	4.86E-10	2.71E-07	6.66E-09	3.04E-08	0.00E+00	3.71E-08	4.09E-09	1.40E-08	0.00E+00	1.81E-08
3426	421129.26	3734600.08	5.16E-08	2.36E-07	5.16E-10	2.88E-07	7.07E-09	3.23E-08	0.00E+00	3.93E-08	4.34E-09	1.48E-08	0.00E+00	1.92E-08
3427	421125.37	3734609.06	5.47E-08	2.50E-07	5.46E-10	3.05E-07	7.49E-09	3.42E-08	0.00E+00	4.17E-08	4.60E-09	1.57E-08	0.00E+00	2.03E-08
3428	421121.47	3734618.05	5.76E-08	2.63E-07	5.76E-10	3.22E-07	7.90E-09	3.60E-08	0.00E+00	4.39E-08	4.85E-09	1.66E-08	0.00E+00	2.14E-08
3429	421117.57	3734627.04	6.05E-08	2.76E-07	6.04E-10	3.38E-07	8.29E-09	3.78E-08	0.00E+00	4.61E-08	5.09E-09	1.74E-08	0.00E+00	2.25E-08
3430	421090.3	3734689.94	7.78E-08	3.56E-07	7.78E-10	4.34E-07	1.07E-08	4.87E-08	0.00E+00	5.93E-08	6.55E-09	2.24E-08	0.00E+00	2.89E-08
3431	421086.4	3734698.93	7.99E-08	3.65E-07	7.98E-10	4.46E-07	1.09E-08	4.99E-08	0.00E+00	6.09E-08	6.72E-09	2.29E-08	0.00E+00	2.97E-08
3432	421082.51	3734707.92	8.19E-08	3.74E-07	8.18E-10	4.57E-07	1.12E-08	5.12E-08	0.00E+00	6.24E-08	6.89E-09	2.35E-08	0.00E+00	3.04E-08
3433	421078.61	3734716.9	8.38E-08	3.83E-07	8.37E-10	4.67E-07	1.15E-08	5.24E-08	0.00E+00	6.38E-08	7.05E-09	2.41E-08	0.00E+00	3.11E-08
3434	421074.71	3734725.89	8.55E-08	3.91E-07	8.55E-10	4.77E-07	1.17E-08	5.35E-08	0.00E+00	6.52E-08	7.19E-09	2.46E-08	0.00E+00	3.18E-08
3435	421063.03	3734752.85	8.89E-08	4.06E-07	8.89E-10	4.96E-07	1.22E-08	5.56E-08	0.00E+00	6.78E-08	7.48E-09	2.55E-08	0.00E+00	3.30E-08
3436	421059.13	3734761.84	8.94E-08	4.09E-07	8.93E-10	4.99E-07	1.23E-08	5.59E-08	0.00E+00	6.81E-08	7.52E-09	2.57E-08	0.00E+00	3.32E-08
3437	421055.23	3734770.82	8.90E-08	4.07E-07	8.89E-10	4.97E-07	1.22E-08	5.56E-08	0.00E+00	6.78E-08	7.48E-09	2.56E-08	0.00E+00	3.30E-08
3438	421051.34	3734779.81	8.90E-08	4.07E-07	8.90E-10	4.97E-07	1.22E-08	5.57E-08	0.00E+00	6.79E-08	7.49E-09	2.56E-08	0.00E+00	3.31E-08
3439	421047.44	3734788.8	8.88E-08	4.06E-07	8.88E-10	4.96E-07	1.22E-08	5.55E-08	0.00E+00	6.77E-08	7.47E-09	2.55E-08	0.00E+00	3.30E-08
3440	421043.54	3734797.78	8.84E-08	4.04E-07	8.84E-10	4.94E-07	1.21E-08	5.53E-08	0.00E+00	6.74E-08	7.44E-09	2.54E-08	0.00E+00	3.28E-08
3441	421039.65	3734806.77	8.78E-08	4.01E-07	8.78E-10	4.90E-07	1.20E-08	5.49E-08	0.00E+00	6.69E-08	7.39E-09	2.52E-08	0.00E+00	3.26E-08
3442	421035.75	3734815.76	8.70E-08	3.98E-07	8.70E-10	4.86E-07	1.19E-08	5.44E-08	0.00E+00	6.63E-08	7.32E-09	2.50E-08	0.00E+00	3.23E-08
3443	421031.86	3734824.74	8.60E-08	3.93E-07	8.60E-10	4.80E-07	1.18E-08	5.38E-08	0.00E+00	6.56E-08	7.24E-09	2.47E-08	0.00E+00	3.19E-08
3444	421018.93	3734837.52	8.62E-08	3.94E-07	8.62E-10	4.81E-07	1.18E-08	5.39E-08	0.00E+00	6.57E-08	7.26E-09	2.48E-08	0.00E+00	3.20E-08
3445	420991.82	3734848.88	9.00E-08	4.11E-07	8.99E-10	5.02E-07	1.23E-08	5.63E-08	0.00E+00	6.86E-08	7.57E-09	2.59E-08	0.00E+00	3.34E-08
3446	420982.79	3734852.66	9.09E-08	4.16E-07	9.09E-10	5.08E-07	1.25E-08	5.68E-08	0.00E+00	6.93E-08	7.65E-09	2.61E-08	0.00E+00	3.38E-08

3447	420973.76	3734856.45	9.16E-08	4.19E-07	9.15E-10	5.11E-07	1.26E-08	5.72E-08	0.00E+00	6.98E-08	7.70E-09	2.63E-08	0.00E+00	3.40E-08
3448	420964.72	3734860.23	9.19E-08	4.20E-07	9.18E-10	5.13E-07	1.26E-08	5.74E-08	0.00E+00	7.00E-08	7.73E-09	2.64E-08	0.00E+00	3.41E-08
3449	420955.69	3734864.02	9.18E-08	4.20E-07	9.17E-10	5.12E-07	1.26E-08	5.74E-08	0.00E+00	7.00E-08	7.72E-09	2.64E-08	0.00E+00	3.41E-08
3450	420946.66	3734867.81	9.13E-08	4.17E-07	9.12E-10	5.09E-07	1.25E-08	5.71E-08	0.00E+00	6.96E-08	7.68E-09	2.62E-08	0.00E+00	3.39E-08
3451	420937.62	3734871.59	9.04E-08	4.13E-07	9.03E-10	5.04E-07	1.24E-08	5.65E-08	0.00E+00	6.89E-08	7.60E-09	2.60E-08	0.00E+00	3.36E-08
3452	420928.59	3734875.38	8.90E-08	4.07E-07	8.90E-10	4.97E-07	1.22E-08	5.56E-08	0.00E+00	6.78E-08	7.49E-09	2.56E-08	0.00E+00	3.31E-08
3453	420919.56	3734879.17	8.71E-08	3.98E-07	8.71E-10	4.86E-07	1.19E-08	5.45E-08	0.00E+00	6.64E-08	7.33E-09	2.50E-08	0.00E+00	3.24E-08
3454	420910.52	3734882.95	8.48E-08	3.88E-07	8.47E-10	4.73E-07	1.16E-08	5.30E-08	0.00E+00	6.46E-08	7.13E-09	2.44E-08	0.00E+00	3.15E-08
3455	420901.49	3734886.74	8.21E-08	3.75E-07	8.20E-10	4.58E-07	1.13E-08	5.13E-08	0.00E+00	6.26E-08	6.91E-09	2.36E-08	0.00E+00	3.05E-08
3456	420892.46	3734890.53	7.90E-08	3.61E-07	7.90E-10	4.41E-07	1.08E-08	4.94E-08	0.00E+00	6.02E-08	6.65E-09	2.27E-08	0.00E+00	2.93E-08
3457	420883.42	3734894.31	7.56E-08	3.46E-07	7.56E-10	4.22E-07	1.04E-08	4.73E-08	0.00E+00	5.76E-08	6.36E-09	2.17E-08	0.00E+00	2.81E-08
3458	420874.39	3734898.1	7.19E-08	3.29E-07	7.18E-10	4.01E-07	9.85E-09	4.49E-08	0.00E+00	5.48E-08	6.05E-09	2.07E-08	0.00E+00	2.67E-08
3459	420865.35	3734901.89	6.80E-08	3.11E-07	6.79E-10	3.79E-07	9.32E-09	4.25E-08	0.00E+00	5.18E-08	5.72E-09	1.95E-08	0.00E+00	2.53E-08
3460	420856.32	3734905.67	6.40E-08	2.93E-07	6.39E-10	3.57E-07	8.77E-09	4.00E-08	0.00E+00	4.88E-08	5.38E-09	1.84E-08	0.00E+00	2.38E-08
3461	420847.29	3734909.46	5.99E-08	2.74E-07	5.99E-10	3.34E-07	8.21E-09	3.74E-08	0.00E+00	4.57E-08	5.04E-09	1.72E-08	0.00E+00	2.22E-08
3462	420838.25	3734913.24	5.58E-08	2.55E-07	5.58E-10	3.12E-07	7.65E-09	3.49E-08	0.00E+00	4.25E-08	4.70E-09	1.60E-08	0.00E+00	2.07E-08
3463	420829.22	3734917.03	5.18E-08	2.37E-07	5.17E-10	2.89E-07	7.10E-09	3.24E-08	0.00E+00	3.95E-08	4.36E-09	1.49E-08	0.00E+00	1.92E-08
3464	420820.19	3734920.82	4.78E-08	2.19E-07	4.78E-10	2.67E-07	6.55E-09	2.99E-08	0.00E+00	3.64E-08	4.02E-09	1.37E-08	0.00E+00	1.78E-08
3465	420811.15	3734924.6	4.39E-08	2.01E-07	4.39E-10	2.45E-07	6.02E-09	2.75E-08	0.00E+00	3.35E-08	3.70E-09	1.26E-08	0.00E+00	1.63E-08
3466	420802.12	3734928.39	4.03E-08	1.84E-07	4.03E-10	2.25E-07	5.53E-09	2.52E-08	0.00E+00	3.08E-08	3.39E-09	1.16E-08	0.00E+00	1.50E-08
3467	420793.09	3734932.18	3.70E-08	1.69E-07	3.69E-10	2.06E-07	5.07E-09	2.31E-08	0.00E+00	2.82E-08	3.11E-09	1.06E-08	0.00E+00	1.37E-08
3468	420784.05	3734935.96	3.38E-08	1.54E-07	3.38E-10	1.89E-07	4.63E-09	2.11E-08	0.00E+00	2.57E-08	2.84E-09	9.71E-09	0.00E+00	1.25E-08
3469	420775.02	3734939.75	3.07E-08	1.40E-07	3.07E-10	1.71E-07	4.21E-09	1.92E-08	0.00E+00	2.34E-08	2.58E-09	8.83E-09	0.00E+00	1.14E-08
3470	420765.99	3734943.54	2.78E-08	1.27E-07	2.78E-10	1.55E-07	3.81E-09	1.74E-08	0.00E+00	2.12E-08	2.34E-09	8.00E-09	0.00E+00	1.03E-08
3471	420756.95	3734947.32	2.52E-08	1.15E-07	2.51E-10	1.40E-07	3.45E-09	1.57E-08	0.00E+00	1.92E-08	2.12E-09	7.23E-09	0.00E+00	9.35E-09
3472	420747.92	3734951.11	2.27E-08	1.04E-07	2.26E-10	1.26E-07	3.11E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.51E-09	0.00E+00	8.42E-09
3473	421152.91	3734536.17	3.30E-08	1.51E-07	3.30E-10	1.84E-07	4.52E-09	2.06E-08	0.00E+00	2.52E-08	2.78E-09	9.48E-09	0.00E+00	1.23E-08
3474	421153.17	3734526.19	3.13E-08	1.43E-07	3.13E-10	1.75E-07	4.29E-09	1.96E-08	0.00E+00	2.38E-08	2.63E-09	8.99E-09	0.00E+00	1.16E-08
3475	421153.44	3734516.2	2.96E-08	1.35E-07	2.96E-10	1.65E-07	4.05E-09	1.85E-08	0.00E+00	2.25E-08	2.49E-09	8.50E-09	0.00E+00	1.10E-08
3476	421184.82	3734565.22	3.14E-08	1.44E-07	3.14E-10	1.75E-07	4.30E-09	1.96E-08	0.00E+00	2.39E-08	2.64E-09	9.02E-09	0.00E+00	1.17E-08
3477	421180.92	3734574.22	3.34E-08	1.53E-07	3.34E-10	1.86E-07	4.57E-09	2.09E-08	0.00E+00	2.54E-08	2.81E-09	9.59E-09	0.00E+00	1.24E-08
3478	421177.02	3734583.22	3.55E-08	1.62E-07	3.55E-10	1.98E-07	4.86E-09	2.22E-08	0.00E+00	2.70E-08	2.99E-09	1.02E-08	0.00E+00	1.32E-08
3479	421173.12	3734592.22	3.78E-08	1.73E-07	3.78E-10	2.11E-07	5.18E-09	2.36E-08	0.00E+00	2.88E-08	3.18E-09	1.09E-08	0.00E+00	1.40E-08
3480	421169.22	3734601.22	4.02E-08	1.84E-07	4.01E-10	2.24E-07	5.50E-09	2.51E-08	0.00E+00	3.06E-08	3.38E-09	1.15E-08	0.00E+00	1.49E-08
3481	421165.31	3734610.22	4.26E-08	1.95E-07	4.26E-10	2.38E-07	5.84E-09	2.66E-08	0.00E+00	3.25E-08	3.58E-09	1.22E-08	0.00E+00	1.58E-08
3482	421161.41	3734619.21	4.49E-08	2.05E-07	4.49E-10	2.51E-07	6.16E-09	2.81E-08	0.00E+00	3.42E-08	3.78E-09	1.29E-08	0.00E+00	1.67E-08
3483	421157.51	3734628.21	4.73E-08	2.16E-07	4.72E-10	2.64E-07	6.48E-09	2.95E-08	0.00E+00	3.60E-08	3.98E-09	1.36E-08	0.00E+00	1.76E-08
3484	421153.61	3734637.21	4.96E-08	2.27E-07	4.96E-10	2.77E-07	6.80E-09	3.10E-08	0.00E+00	3.78E-08	4.17E-09	1.42E-08	0.00E+00	1.84E-08
3485	421149.71	3734646.21	5.18E-08	2.37E-07	5.18E-10	2.89E-07	7.11E-09	3.24E-08	0.00E+00	3.95E-08	4.36E-09	1.49E-08	0.00E+00	1.93E-08
3486	421145.81	3734655.21	5.40E-08	2.47E-07	5.40E-10	3.01E-07	7.40E-09	3.38E-08	0.00E+00	4.12E-08	4.54E-09	1.55E-08	0.00E+00	2.01E-08
3487	421141.91	3734664.21	5.61E-08	2.56E-07	5.60E-10	3.13E-07	7.69E-09	3.51E-08	0.00E+00	4.27E-08	4.72E-09	1.61E-08	0.00E+00	2.08E-08
3488	421138	3734673.21	5.81E-08	2.66E-07	5.81E-10	3.24E-07	7.97E-09	3.63E-08	0.00E+00	4.43E-08	4.89E-09	1.67E-08	0.00E+00	2.16E-08
3489	421134.1	3734682.21	6.03E-08	2.75E-07	6.02E-10	3.36E-07	8.26E-09	3.77E-08	0.00E+00	4.59E-08	5.07E-09	1.73E-08	0.00E+00	2.24E-08
3490	421130.2	3734691.21	6.22E-08	2.85E-07	6.22E-10	3.47E-07	8.53E-09	3.89E-08	0.00E+00	4.74E-08	5.24E-09	1.79E-08	0.00E+00	2.31E-08
3491	421126.3	3734700.2	6.41E-08	2.93E-07	6.41E-10	3.58E-07	8.78E-09	4.01E-08	0.00E+00	4.89E-08	5.39E-09	1.84E-08	0.00E+00	2.38E-08
3492	421122.4	3734709.2	6.59E-08	3.01E-07	6.58E-10	3.68E-07	9.03E-09	4.12E-08	0.00E+00	5.02E-08	5.54E-09	1.89E-08	0.00E+00	2.45E-08
3493	421118.5	3734718.2	6.75E-08	3.09E-07	6.75E-10	3.77E-07	9.25E-09	4.22E-08	0.00E+00	5.15E-08	5.68E-09	1.94E-08	0.00E+00	2.51E-08
3494	421091.18	3734781.2	7.47E-08	3.41E-07	7.46E-10	4.17E-07	1.02E-08	4.67E-08	0.00E+00	5.69E-08	6.28E-09	2.15E-08	0.00E+00	2.77E-08
3495	421087.28	3734790.19	7.50E-08	3.43E-07	7.49E-10	4.18E-07	1.03E-08	4.69E-08	0.00E+00	5.71E-08	6.31E-09	2.15E-08	0.00E+00	2.78E-08
3496	421083.38	3734799.19	7.49E-08	3.42E-07	7.49E-10	4.18E-07	1.03E-08	4.68E-08	0.00E+00	5.71E-08	6.30E-09	2.15E-08	0.00E+00	2.78E-08
3497	421079.48	3734808.19	7.47E-08	3.42E-07	7.47E-10	4.17E-07	1.02E-08	4.67E-08	0.00E+00	5.70E-08	6.29E-09	2.15E-08	0.00E+00	2.78E-08
3498	421075.58	3734817.19	7.45E-08	3.41E-07	7.44E-10	4.16E-07	1.02E-08	4.66E-08	0.00E+00	5.68E-08	6.27E-09	2.14E-08	0.00E+00	2.77E-08
3499	421071.68	3734826.19	7.40E-08	3.38E-07	7.40E-10	4.13E-07	1.01E-08	4.63E-08	0.00E+00	5.64E-08	6.23E-09	2.13E-08	0.00E+00	2.75E-08
3500	421067.78	3734835.19	7.34E-08	3.36E-07	7.34E-10	4.10E-07	1.01E-08	4.59E-08	0.00E+00	5.60E-08	6.18E-09	2.11E-08	0.00E+00	2.73E-08
3501	421063.87	3734844.19	7.27E-08	3.33E-07	7.27E-10	4.06E-07	9.97E-09	4.55E-08	0.00E+00	5.54E-08	6.12E-09	2.09E-08	0.00E+00	2.70E-08
3502	421059.97	3734853.19	7.20E-08	3.29E-07	7.20E-10	4.02E-07	9.87E-09	4.50E-08	0.00E+00	5.49E-08	6.06E-09	2.07E-08	0.00E+00	2.68E-08
3503	421047.02	3734865.98	7.27E-08	3.33E-07	7.27E-10	4.06E-07	9.97E-09	4.55E-08	0.00E+00	5.55E-08	6.12E-09	2.09E-08	0.00E+00	2.70E-08
3504	421037.98	3734869.77	7.39E-08	3.38E-07	7.39E-10	4.13E-07	1.01E-08	4.62E-08	0.00E+00	5.63E-08	6.22E-09	2.12E-08	0.00E+00	2.75E-08
3505	421028.93	3734873.56	7.50E-08	3.43E-07	7.49E-10	4.18E-07	1.03E-08	4.69E-08	0.00E+00	5.71E-08	6.31E-09	2.15E-08	0.00E+00	2.78E-08
3506	421019.89	3734877.35	7.59E-08	3.47E-07	7.58E-10	4.23E-07	1.04E-08	4.74E-08	0.00E+00	5.78E-08	6.38E-09	2.18E-08	0.00E+00	2.82E-08
3507	420992.75	3734888.73	7.74E-08	3.54E-07	7.74E-10	4.32E-07	1.06E-08	4.84E-08	0.00E+00	5.90E-08	6.51E-09	2.22E-08	0.00E+00	2.88E-08
3508	420983.7	3734892.52	7.75E-08	3.54E-07	7.75E-10	4.33E-07	1.06E-08	4.85E-08	0.00E+00	5.91E-08	6.52E-09	2.23E-08	0.00E+00	2.88E-08
3509	420974.66	3734896.31	7.74E-08	3.54E-07	7.73E-10	4.32E-07	1.06E-08	4.84E-08	0.00E+00	5.90E-08	6.51E-09	2.22E-08	0.00E+00	2.87E-08
3510	420965.61	3734900.1	7.69E-08	3.52E-07	7.69E-10	4.29E-07	1.05E-08	4.81E-08	0.00E+00	5.87E-08	6.47E-09	2.21E-08	0.00E+00	2.86E-08
3511	420956.57	3734903.89	7.62E-08	3.48E-07	7.61E-10	4.25E-07	1.04E-08	4.76E-08	0.00E+00	5.81E-08	6.41E-09	2.19E-08	0.00E+00	2.83E-08
3512	420947.52	3734907.68	7.50E-08	3.43E-07	7.49E-10	4.19E-07	1.03E-08	4.69E-08	0.00E+00	5.72E-08	6.31E-09	2.15E-08	0.00E+00	2.79E-08
3513	420938.47	3734911.48	7.35E-08	3.36E-07	7.34E-10	4.10E-07	1.01E-08	4.59E-08	0.00E+00	5.60E-08	6.18E-09	2.11E-08	0.00E+00	2.73E-08
3514	420929.43	3734915.27	7.17E-08	3.28E-07	7.16E-10	4.00E-07	9.83E-09	4.48E-08	0.00E+00	5.46E-08	6.03E-09	2.06E-08	0.00E+00	2.66E-08
3515	420920.38	3734919.06	6.96E-08	3.18E-07	6.95E-10	3.88E-07	9.53E-09	4.35E-08	0.00E+00	5.30E-08	5.85E-09	2.00E-08	0.00E+00	2.58E-08
3516	420911.34	3734922.85	6.72E-08	3.07E-07	6.71E-10	3.75E-07	9.21E-09	4.20E-08	0.00E+00	5.12E-08	5.65E-09	1.93E-08	0.00E+00	2.49E-08
3517	420902.29	3734926.64	6.45E-08	2.95E-07	6.45E-10	3.60E-07	8.84E-09	4.03E-08	0.00E+00	4.92E-08	5.43E-09	1.85E-08	0.00E+00	2.40E-08
3518	420893.25	3734930.43	6.16E-08	2.82E-07	6.16E-10	3.44E-07	8.45E-09	3.85E-08	0.00E+00	4.70E-08	5.19E-09	1.77E-08	0.00E+00	2.29E-08
3519	420884.2	3734934.23	5.86E-08	2.68E-07	5.86E-10	3.27E-07	8.04E-09	3.67E-08	0.00E+00	4.47E-08	4.93E-09	1.68E-08	0.00E+00	2.18E-08
3520	420875.15	3734938.02	5.55E-08	2.54E-07	5.55E-10	3.10E-07	7.61E-09	3.47E-08	0.00E+00	4.23E-08	4.67E-09	1.60E-08	0.00E+00	2.06E-08
3521	420866.11	3734941.81	5.24E-08	2.40E-07	5.24E-10	2.92E-07	7.18E-09	3.28E-08	0.00E+00	3.99E-08	4.41E-09	1.51E-08	0.00E+00	1.95E-08

3522	420857.06	3734945.6	4.92E-08	2.25E-07	4.92E-10	2.75E-07	6.74E-09	3.08E-08	0.00E+00	3.75E-08	4.14E-09	1.41E-08	0.00E+00	1.83E-08
3523	420848.02	3734949.39	4.60E-08	2.10E-07	4.60E-10	2.57E-07	6.31E-09	2.88E-08	0.00E+00	3.51E-08	3.87E-09	1.32E-08	0.00E+00	1.71E-08
3524	420838.97	3734953.18	4.28E-08	1.96E-07	4.28E-10	2.39E-07	5.87E-09	2.68E-08	0.00E+00	3.26E-08	3.60E-09	1.23E-08	0.00E+00	1.59E-08
3525	420829.92	3734956.98	3.98E-08	1.82E-07	3.97E-10	2.22E-07	5.45E-09	2.49E-08	0.00E+00	3.03E-08	3.35E-09	1.14E-08	0.00E+00	1.48E-08
3526	420820.88	3734960.77	3.68E-08	1.68E-07	3.68E-10	2.06E-07	5.05E-09	2.30E-08	0.00E+00	2.81E-08	3.10E-09	1.06E-08	0.00E+00	1.37E-08
3527	420811.83	3734964.56	3.40E-08	1.56E-07	3.40E-10	1.90E-07	4.67E-09	2.13E-08	0.00E+00	2.60E-08	2.86E-09	9.78E-09	0.00E+00	1.26E-08
3528	420802.79	3734968.35	3.13E-08	1.43E-07	3.13E-10	1.75E-07	4.30E-09	1.96E-08	0.00E+00	2.39E-08	2.64E-09	9.01E-09	0.00E+00	1.16E-08
3529	420793.74	3734972.14	2.87E-08	1.31E-07	2.87E-10	1.60E-07	3.93E-09	1.79E-08	0.00E+00	2.19E-08	2.41E-09	8.25E-09	0.00E+00	1.07E-08
3530	420784.69	3734975.93	2.62E-08	1.20E-07	2.62E-10	1.46E-07	3.59E-09	1.64E-08	0.00E+00	2.00E-08	2.21E-09	7.54E-09	0.00E+00	9.74E-09
3531	420775.65	3734979.73	2.39E-08	1.09E-07	2.39E-10	1.34E-07	3.28E-09	1.50E-08	0.00E+00	1.82E-08	2.01E-09	6.87E-09	0.00E+00	8.89E-09
3532	420766.6	3734983.52	2.18E-08	9.96E-08	2.18E-10	1.22E-07	2.99E-09	1.36E-08	0.00E+00	1.66E-08	1.83E-09	6.26E-09	0.00E+00	8.09E-09
3533	420757.56	3734987.31	1.98E-08	9.06E-08	1.98E-10	1.11E-07	2.72E-09	1.24E-08	0.00E+00	1.51E-08	1.67E-09	5.69E-09	0.00E+00	7.36E-09
3534	420748.51	3734991.1	1.80E-08	8.23E-08	1.80E-10	1.01E-07	2.47E-09	1.13E-08	0.00E+00	1.37E-08	1.51E-09	5.17E-09	0.00E+00	6.69E-09
3535	421192.89	3734537.24	2.63E-08	1.20E-07	2.63E-10	1.47E-07	3.61E-09	1.64E-08	0.00E+00	2.01E-08	2.21E-09	7.56E-09	0.00E+00	9.77E-09
3536	421193.16	3734527.26	2.50E-08	1.14E-07	2.50E-10	1.40E-07	3.43E-09	1.56E-08	0.00E+00	1.91E-08	2.10E-09	7.18E-09	0.00E+00	9.29E-09
3537	421193.43	3734517.27	2.37E-08	1.08E-07	2.37E-10	1.32E-07	3.25E-09	1.48E-08	0.00E+00	1.81E-08	2.00E-09	6.82E-09	0.00E+00	8.81E-09
3538	421213.08	3734593.34	3.05E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.75E-09	0.00E+00	1.13E-08
3539	421209.18	3734602.35	3.22E-08	1.47E-07	3.22E-10	1.80E-07	4.41E-09	2.01E-08	0.00E+00	2.45E-08	2.71E-09	9.25E-09	0.00E+00	1.20E-08
3540	421205.27	3734611.36	3.40E-08	1.55E-07	3.39E-10	1.90E-07	4.65E-09	2.12E-08	0.00E+00	2.59E-08	2.86E-09	9.76E-09	0.00E+00	1.26E-08
3541	421201.36	3734620.36	3.57E-08	1.63E-07	3.56E-10	1.99E-07	4.89E-09	2.23E-08	0.00E+00	2.72E-08	3.00E-09	1.02E-08	0.00E+00	1.32E-08
3542	421197.46	3734629.37	3.75E-08	1.71E-07	3.74E-10	2.09E-07	5.14E-09	2.34E-08	0.00E+00	2.86E-08	3.15E-09	1.08E-08	0.00E+00	1.39E-08
3543	421193.55	3734638.38	3.93E-08	1.80E-07	3.93E-10	2.19E-07	5.39E-09	2.46E-08	0.00E+00	3.00E-08	3.31E-09	1.13E-08	0.00E+00	1.46E-08
3544	421189.65	3734647.39	4.12E-08	1.88E-07	4.12E-10	2.30E-07	5.65E-09	2.58E-08	0.00E+00	3.14E-08	3.47E-09	1.18E-08	0.00E+00	1.53E-08
3545	421185.74	3734656.4	4.31E-08	1.97E-07	4.31E-10	2.41E-07	5.91E-09	2.69E-08	0.00E+00	3.29E-08	3.63E-09	1.24E-08	0.00E+00	1.60E-08
3546	421181.83	3734665.41	4.49E-08	2.05E-07	4.49E-10	2.51E-07	6.16E-09	2.81E-08	0.00E+00	3.43E-08	3.78E-09	1.29E-08	0.00E+00	1.67E-08
3547	421177.93	3734674.42	4.67E-08	2.14E-07	4.67E-10	2.61E-07	6.40E-09	2.92E-08	0.00E+00	3.56E-08	3.93E-09	1.34E-08	0.00E+00	1.74E-08
3548	421174.02	3734683.43	4.85E-08	2.22E-07	4.85E-10	2.71E-07	6.65E-09	3.03E-08	0.00E+00	3.70E-08	4.08E-09	1.39E-08	0.00E+00	1.80E-08
3549	421170.11	3734692.44	5.03E-08	2.30E-07	5.03E-10	2.81E-07	6.90E-09	3.15E-08	0.00E+00	3.84E-08	4.23E-09	1.45E-08	0.00E+00	1.87E-08
3550	421166.21	3734701.45	5.20E-08	2.38E-07	5.20E-10	2.90E-07	7.13E-09	3.25E-08	0.00E+00	3.96E-08	4.37E-09	1.49E-08	0.00E+00	1.93E-08
3551	421162.3	3734710.46	5.35E-08	2.45E-07	5.35E-10	2.99E-07	7.34E-09	3.35E-08	0.00E+00	4.08E-08	4.50E-09	1.54E-08	0.00E+00	1.99E-08
3552	421158.4	3734719.47	5.50E-08	2.51E-07	5.50E-10	3.07E-07	7.54E-09	3.44E-08	0.00E+00	4.19E-08	4.63E-09	1.58E-08	0.00E+00	2.04E-08
3553	421154.49	3734728.48	5.64E-08	2.58E-07	5.64E-10	3.15E-07	7.74E-09	3.53E-08	0.00E+00	4.30E-08	4.75E-09	1.62E-08	0.00E+00	2.10E-08
3554	421150.58	3734737.48	5.77E-08	2.64E-07	5.76E-10	3.22E-07	7.91E-09	3.61E-08	0.00E+00	4.40E-08	4.85E-09	1.66E-08	0.00E+00	2.14E-08
3555	421146.68	3734746.49	5.88E-08	2.69E-07	5.88E-10	3.28E-07	8.07E-09	3.68E-08	0.00E+00	4.48E-08	4.95E-09	1.69E-08	0.00E+00	2.19E-08
3556	421142.77	3734755.5	5.99E-08	2.74E-07	5.99E-10	3.34E-07	8.21E-09	3.75E-08	0.00E+00	4.57E-08	5.04E-09	1.72E-08	0.00E+00	2.23E-08
3557	421138.87	3734764.51	6.08E-08	2.78E-07	6.08E-10	3.40E-07	8.34E-09	3.80E-08	0.00E+00	4.64E-08	5.12E-09	1.75E-08	0.00E+00	2.26E-08
3558	421134.96	3734773.52	6.16E-08	2.82E-07	6.16E-10	3.44E-07	8.45E-09	3.85E-08	0.00E+00	4.70E-08	5.18E-09	1.77E-08	0.00E+00	2.29E-08
3559	421131.05	3734782.53	6.23E-08	2.85E-07	6.23E-10	3.48E-07	8.54E-09	3.89E-08	0.00E+00	4.75E-08	5.24E-09	1.79E-08	0.00E+00	2.31E-08
3560	421127.15	3734791.54	6.28E-08	2.87E-07	6.28E-10	3.51E-07	8.61E-09	3.93E-08	0.00E+00	4.79E-08	5.29E-09	1.81E-08	0.00E+00	2.33E-08
3561	421091.99	3734872.62	6.06E-08	2.77E-07	6.05E-10	3.38E-07	8.30E-09	3.79E-08	0.00E+00	4.62E-08	5.09E-09	1.74E-08	0.00E+00	2.25E-08
3562	421088.09	3734881.63	6.01E-08	2.75E-07	6.01E-10	3.35E-07	8.24E-09	3.76E-08	0.00E+00	4.58E-08	5.05E-09	1.73E-08	0.00E+00	2.23E-08
3563	421075.13	3734894.44	6.11E-08	2.79E-07	6.11E-10	3.41E-07	8.38E-09	3.82E-08	0.00E+00	4.66E-08	5.14E-09	1.76E-08	0.00E+00	2.27E-08
3564	421066.07	3734898.23	6.23E-08	2.85E-07	6.23E-10	3.48E-07	8.55E-09	3.90E-08	0.00E+00	4.75E-08	5.25E-09	1.79E-08	0.00E+00	2.32E-08
3565	421057.01	3734902.03	6.35E-08	2.90E-07	6.34E-10	3.54E-07	8.70E-09	3.97E-08	0.00E+00	4.84E-08	5.34E-09	1.82E-08	0.00E+00	2.36E-08
3566	421047.96	3734905.83	6.44E-08	2.95E-07	6.44E-10	3.60E-07	8.83E-09	4.03E-08	0.00E+00	4.91E-08	5.42E-09	1.85E-08	0.00E+00	2.39E-08
3567	421038.9	3734909.62	6.52E-08	2.98E-07	6.51E-10	3.64E-07	8.93E-09	4.07E-08	0.00E+00	4.97E-08	5.48E-09	1.87E-08	0.00E+00	2.42E-08
3568	421029.84	3734913.42	6.58E-08	3.01E-07	6.57E-10	3.67E-07	9.01E-09	4.11E-08	0.00E+00	5.01E-08	5.53E-09	1.89E-08	0.00E+00	2.44E-08
3569	421020.79	3734917.21	6.62E-08	3.03E-07	6.61E-10	3.69E-07	9.07E-09	4.14E-08	0.00E+00	5.04E-08	5.57E-09	1.90E-08	0.00E+00	2.46E-08
3570	420993.62	3734928.6	6.59E-08	3.01E-07	6.59E-10	3.68E-07	9.03E-09	4.12E-08	0.00E+00	5.02E-08	5.54E-09	1.89E-08	0.00E+00	2.45E-08
3571	420984.56	3734932.4	6.54E-08	2.99E-07	6.54E-10	3.65E-07	8.97E-09	4.09E-08	0.00E+00	4.99E-08	5.50E-09	1.88E-08	0.00E+00	2.43E-08
3572	420975.51	3734936.19	6.48E-08	2.96E-07	6.47E-10	3.62E-07	8.88E-09	4.05E-08	0.00E+00	4.94E-08	5.45E-09	1.86E-08	0.00E+00	2.41E-08
3573	420966.45	3734939.99	6.39E-08	2.92E-07	6.39E-10	3.57E-07	8.76E-09	3.99E-08	0.00E+00	4.87E-08	5.38E-09	1.84E-08	0.00E+00	2.37E-08
3574	420957.39	3734943.79	6.27E-08	2.87E-07	6.27E-10	3.50E-07	8.60E-09	3.92E-08	0.00E+00	4.78E-08	5.28E-09	1.80E-08	0.00E+00	2.33E-08
3575	420948.34	3734947.58	6.13E-08	2.80E-07	6.12E-10	3.42E-07	8.40E-09	3.83E-08	0.00E+00	4.67E-08	5.15E-09	1.76E-08	0.00E+00	2.28E-08
3576	420939.28	3734951.38	5.96E-08	2.72E-07	5.95E-10	3.33E-07	8.17E-09	3.72E-08	0.00E+00	4.54E-08	5.01E-09	1.71E-08	0.00E+00	2.21E-08
3577	420930.23	3734955.17	5.77E-08	2.64E-07	5.77E-10	3.22E-07	7.91E-09	3.61E-08	0.00E+00	4.40E-08	4.85E-09	1.66E-08	0.00E+00	2.14E-08
3578	420921.17	3734958.97	5.56E-08	2.54E-07	5.55E-10	3.10E-07	7.62E-09	3.47E-08	0.00E+00	4.24E-08	4.67E-09	1.60E-08	0.00E+00	2.06E-08
3579	420912.11	3734962.76	5.33E-08	2.43E-07	5.32E-10	2.97E-07	7.30E-09	3.33E-08	0.00E+00	4.06E-08	4.48E-09	1.53E-08	0.00E+00	1.98E-08
3580	420903.06	3734966.56	5.08E-08	2.32E-07	5.08E-10	2.84E-07	6.97E-09	3.18E-08	0.00E+00	3.87E-08	4.27E-09	1.46E-08	0.00E+00	1.89E-08
3581	420894	3734970.36	4.84E-08	2.21E-07	4.84E-10	2.70E-07	6.63E-09	3.03E-08	0.00E+00	3.69E-08	4.07E-09	1.39E-08	0.00E+00	1.80E-08
3582	420884.95	3734974.15	4.60E-08	2.10E-07	4.60E-10	2.57E-07	6.30E-09	2.88E-08	0.00E+00	3.51E-08	3.87E-09	1.32E-08	0.00E+00	1.71E-08
3583	420875.89	3734977.95	4.35E-08	1.99E-07	4.35E-10	2.43E-07	5.97E-09	2.72E-08	0.00E+00	3.32E-08	3.66E-09	1.25E-08	0.00E+00	1.62E-08
3584	420866.83	3734981.74	4.10E-08	1.88E-07	4.10E-10	2.29E-07	5.62E-09	2.57E-08	0.00E+00	3.13E-08	3.45E-09	1.18E-08	0.00E+00	1.52E-08
3585	420857.78	3734985.54	3.85E-08	1.76E-07	3.84E-10	2.15E-07	5.27E-09	2.40E-08	0.00E+00	2.93E-08	3.24E-09	1.11E-08	0.00E+00	1.43E-08
3586	420848.72	3734989.34	3.59E-08	1.64E-07	3.59E-10	2.00E-07	4.92E-09	2.25E-08	0.00E+00	2.74E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
3587	420839.66	3734993.13	3.34E-08	1.53E-07	3.34E-10	1.87E-07	4.58E-09	2.09E-08	0.00E+00	2.55E-08	2.81E-09	9.60E-09	0.00E+00	1.24E-08
3588	420830.61	3734996.93	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.36E-08	2.61E-09	8.91E-09	0.00E+00	1.15E-08
3589	420821.55	3735000.72	2.87E-08	1.31E-07	2.87E-10	1.60E-07	3.93E-09	1.79E-08	0.00E+00	2.19E-08	2.41E-09	8.24E-09	0.00E+00	1.07E-08
3590	420812.5	3735004.52	2.64E-08	1.21E-07	2.64E-10	1.48E-07	3.63E-09	1.65E-08	0.00E+00	2.02E-08	2.22E-09	7.60E-09	0.00E+00	9.82E-09
3591	420803.44	3735008.32	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.34E-09	1.53E-08	0.00E+00	1.86E-08	2.05E-09	7.01E-09	0.00E+00	9.06E-09
3592	420794.38	3735012.11	2.25E-08	1.03E-07	2.25E-10	1.26E-07	3.08E-09	1.41E-08	0.00E+00	1.71E-08	1.89E-09	6.46E-09	0.00E+00	8.35E-09
3593	420785.33	3735015.91	2.07E-08	9.47E-08	2.07E-10	1.16E-07	2.84E-09	1.29E-08	0.00E+00	1.58E-08	1.74E-09	5.95E-09	0.00E+00	7.69E-09
3594	420776.27	3735019.7	1.90E-08	8.69E-08	1.90E-10	1.06E-07	2.61E-09	1.19E-08	0.00E+00	1.45E-08	1.60E-09	5.46E-09	0.00E+00	7.06E-09
3595	420767.21	3735023.5	1.74E-08	7.95E-08	1.74E-10	9.71E-08	2.39E-09	1.09E-08	0.00E+00	1.33E-08	1.46E-09	5.00E-09	0.00E+00	6.46E-09
3596	421232.88	3734538.31	2.19E-08	1.00E-07	2.19E-10	1.22E-07	3.00E-09	1.37E-08	0.00E+00	1.67E-08	1.84E-09	6.28E-09	0.00E+00	8.12E-09

3597	421233.15	3734528.32	2.08E-08	9.50E-08	2.08E-10	1.16E-07	2.85E-09	1.30E-08	0.00E+00	1.58E-08	1.75E-09	5.97E-09	0.00E+00	7.72E-09
3598	421233.41	3734518.34	1.97E-08	9.02E-08	1.97E-10	1.10E-07	2.70E-09	1.23E-08	0.00E+00	1.50E-08	1.66E-09	5.67E-09	0.00E+00	7.33E-09
3599	421253.05	3734594.45	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.48E-09	1.59E-08	0.00E+00	1.93E-08	2.14E-09	7.29E-09	0.00E+00	9.43E-09
3600	421249.14	3734603.47	2.68E-08	1.23E-07	2.68E-10	1.50E-07	3.68E-09	1.68E-08	0.00E+00	2.04E-08	2.26E-09	7.70E-09	0.00E+00	9.96E-09
3601	421245.23	3734612.49	2.82E-08	1.29E-07	2.82E-10	1.58E-07	3.87E-09	1.77E-08	0.00E+00	2.15E-08	2.38E-09	8.12E-09	0.00E+00	1.05E-08
3602	421241.32	3734621.5	2.97E-08	1.36E-07	2.96E-10	1.66E-07	4.06E-09	1.85E-08	0.00E+00	2.26E-08	2.49E-09	8.52E-09	0.00E+00	1.10E-08
3603	421237.41	3734630.52	3.11E-08	1.42E-07	3.11E-10	1.73E-07	4.26E-09	1.94E-08	0.00E+00	2.37E-08	2.61E-09	8.93E-09	0.00E+00	1.15E-08
3604	421233.5	3734639.54	3.25E-08	1.49E-07	3.25E-10	1.81E-07	4.46E-09	2.03E-08	0.00E+00	2.48E-08	2.74E-09	9.34E-09	0.00E+00	1.21E-08
3605	421229.59	3734648.56	3.39E-08	1.55E-07	3.38E-10	1.89E-07	4.64E-09	2.12E-08	0.00E+00	2.58E-08	2.85E-09	9.73E-09	0.00E+00	1.26E-08
3606	421225.68	3734657.58	3.52E-08	1.61E-07	3.52E-10	1.97E-07	4.83E-09	2.20E-08	0.00E+00	2.68E-08	2.96E-09	1.01E-08	0.00E+00	1.31E-08
3607	421221.77	3734666.59	3.66E-08	1.67E-07	3.66E-10	2.04E-07	5.02E-09	2.29E-08	0.00E+00	2.79E-08	3.08E-09	1.05E-08	0.00E+00	1.36E-08
3608	421217.86	3734675.61	3.80E-08	1.74E-07	3.80E-10	2.12E-07	5.21E-09	2.37E-08	0.00E+00	2.90E-08	3.20E-09	1.09E-08	0.00E+00	1.41E-08
3609	421213.95	3734684.63	3.93E-08	1.80E-07	3.93E-10	2.19E-07	5.39E-09	2.46E-08	0.00E+00	3.00E-08	3.31E-09	1.13E-08	0.00E+00	1.46E-08
3610	421210.04	3734693.65	4.06E-08	1.86E-07	4.06E-10	2.27E-07	5.57E-09	2.54E-08	0.00E+00	3.09E-08	3.42E-09	1.17E-08	0.00E+00	1.51E-08
3611	421206.13	3734702.67	4.19E-08	1.92E-07	4.19E-10	2.34E-07	5.74E-09	2.62E-08	0.00E+00	3.19E-08	3.52E-09	1.20E-08	0.00E+00	1.56E-08
3612	421202.22	3734711.68	4.33E-08	1.98E-07	4.32E-10	2.41E-07	5.93E-09	2.70E-08	0.00E+00	3.30E-08	3.64E-09	1.24E-08	0.00E+00	1.61E-08
3613	421198.31	3734720.7	4.46E-08	2.04E-07	4.46E-10	2.49E-07	6.12E-09	2.79E-08	0.00E+00	3.40E-08	3.76E-09	1.28E-08	0.00E+00	1.66E-08
3614	421194.4	3734729.72	4.60E-08	2.10E-07	4.59E-10	2.57E-07	6.30E-09	2.87E-08	0.00E+00	3.50E-08	3.87E-09	1.32E-08	0.00E+00	1.71E-08
3615	421190.49	3734738.74	4.71E-08	2.16E-07	4.71E-10	2.63E-07	6.46E-09	2.95E-08	0.00E+00	3.59E-08	3.97E-09	1.35E-08	0.00E+00	1.75E-08
3616	421186.58	3734747.76	4.83E-08	2.21E-07	4.83E-10	2.70E-07	6.62E-09	3.02E-08	0.00E+00	3.68E-08	4.06E-09	1.39E-08	0.00E+00	1.79E-08
3617	421182.67	3734756.77	4.94E-08	2.26E-07	4.94E-10	2.76E-07	6.77E-09	3.09E-08	0.00E+00	3.77E-08	4.16E-09	1.42E-08	0.00E+00	1.84E-08
3618	421178.76	3734765.79	5.04E-08	2.31E-07	5.04E-10	2.82E-07	6.91E-09	3.15E-08	0.00E+00	3.84E-08	4.24E-09	1.45E-08	0.00E+00	1.87E-08
3619	421174.85	3734774.81	5.13E-08	2.34E-07	5.13E-10	2.86E-07	7.03E-09	3.21E-08	0.00E+00	3.91E-08	4.31E-09	1.47E-08	0.00E+00	1.90E-08
3620	421170.94	3734783.83	5.20E-08	2.38E-07	5.20E-10	2.90E-07	7.13E-09	3.25E-08	0.00E+00	3.96E-08	4.38E-09	1.49E-08	0.00E+00	1.93E-08
3621	421167.03	3734792.85	5.27E-08	2.41E-07	5.26E-10	2.94E-07	7.22E-09	3.29E-08	0.00E+00	4.01E-08	4.43E-09	1.51E-08	0.00E+00	1.96E-08
3622	421155.3	3734819.9	5.31E-08	2.43E-07	5.31E-10	2.96E-07	7.28E-09	3.32E-08	0.00E+00	4.05E-08	4.47E-09	1.53E-08	0.00E+00	1.97E-08
3623	421151.39	3734828.92	5.29E-08	2.42E-07	5.29E-10	2.95E-07	7.25E-09	3.31E-08	0.00E+00	4.03E-08	4.45E-09	1.52E-08	0.00E+00	1.97E-08
3624	421147.48	3734837.94	5.26E-08	2.41E-07	5.26E-10	2.94E-07	7.22E-09	3.29E-08	0.00E+00	4.01E-08	4.43E-09	1.51E-08	0.00E+00	1.96E-08
3625	421143.57	3734846.95	5.23E-08	2.39E-07	5.22E-10	2.92E-07	7.17E-09	3.27E-08	0.00E+00	3.98E-08	4.40E-09	1.50E-08	0.00E+00	1.94E-08
3626	421139.66	3734855.97	5.20E-08	2.38E-07	5.19E-10	2.90E-07	7.12E-09	3.25E-08	0.00E+00	3.96E-08	4.37E-09	1.49E-08	0.00E+00	1.93E-08
3627	421135.75	3734864.99	5.18E-08	2.37E-07	5.18E-10	2.89E-07	7.10E-09	3.24E-08	0.00E+00	3.95E-08	4.36E-09	1.49E-08	0.00E+00	1.92E-08
3628	421131.84	3734874.01	5.15E-08	2.36E-07	5.15E-10	2.88E-07	7.06E-09	3.22E-08	0.00E+00	3.93E-08	4.33E-09	1.48E-08	0.00E+00	1.91E-08
3629	421127.93	3734883.03	5.12E-08	2.34E-07	5.12E-10	2.86E-07	7.02E-09	3.20E-08	0.00E+00	3.90E-08	4.31E-09	1.47E-08	0.00E+00	1.90E-08
3630	421124.02	3734892.04	5.10E-08	2.33E-07	5.10E-10	2.85E-07	6.99E-09	3.19E-08	0.00E+00	3.89E-08	4.29E-09	1.47E-08	0.00E+00	1.89E-08
3631	421085.1	3734930.5	5.37E-08	2.46E-07	5.37E-10	3.00E-07	7.37E-09	3.36E-08	0.00E+00	4.10E-08	4.52E-09	1.54E-08	0.00E+00	2.00E-08
3632	421076.03	3734934.3	5.47E-08	2.50E-07	5.47E-10	3.05E-07	7.50E-09	3.42E-08	0.00E+00	4.17E-08	4.60E-09	1.57E-08	0.00E+00	2.03E-08
3633	421066.97	3734938.1	5.54E-08	2.53E-07	5.54E-10	3.09E-07	7.60E-09	3.47E-08	0.00E+00	4.23E-08	4.66E-09	1.59E-08	0.00E+00	2.06E-08
3634	421057.9	3734941.9	5.60E-08	2.56E-07	5.60E-10	3.13E-07	7.68E-09	3.50E-08	0.00E+00	4.27E-08	4.72E-09	1.61E-08	0.00E+00	2.08E-08
3635	421048.84	3734945.7	5.65E-08	2.58E-07	5.64E-10	3.15E-07	7.74E-09	3.53E-08	0.00E+00	4.30E-08	4.75E-09	1.62E-08	0.00E+00	2.10E-08
3636	421039.77	3734949.5	5.67E-08	2.59E-07	5.67E-10	3.17E-07	7.77E-09	3.55E-08	0.00E+00	4.32E-08	4.77E-09	1.63E-08	0.00E+00	2.11E-08
3637	421030.71	3734953.29	5.68E-08	2.60E-07	5.68E-10	3.17E-07	7.79E-09	3.55E-08	0.00E+00	4.33E-08	4.78E-09	1.63E-08	0.00E+00	2.11E-08
3638	421021.64	3734957.09	5.68E-08	2.60E-07	5.68E-10	3.17E-07	7.79E-09	3.55E-08	0.00E+00	4.33E-08	4.78E-09	1.63E-08	0.00E+00	2.11E-08
3639	420994.45	3734968.49	5.56E-08	2.54E-07	5.56E-10	3.11E-07	7.63E-09	3.48E-08	0.00E+00	4.24E-08	4.68E-09	1.60E-08	0.00E+00	2.07E-08
3640	420985.38	3734972.29	5.48E-08	2.51E-07	5.48E-10	3.06E-07	7.52E-09	3.43E-08	0.00E+00	4.18E-08	4.61E-09	1.58E-08	0.00E+00	2.04E-08
3641	420976.32	3734976.09	5.38E-08	2.46E-07	5.38E-10	3.00E-07	7.38E-09	3.36E-08	0.00E+00	4.10E-08	4.53E-09	1.55E-08	0.00E+00	2.00E-08
3642	420967.25	3734979.89	5.27E-08	2.41E-07	5.26E-10	2.94E-07	7.22E-09	3.29E-08	0.00E+00	4.01E-08	4.43E-09	1.51E-08	0.00E+00	1.96E-08
3643	420958.19	3734983.69	5.13E-08	2.35E-07	5.13E-10	2.87E-07	7.04E-09	3.21E-08	0.00E+00	3.91E-08	4.32E-09	1.48E-08	0.00E+00	1.91E-08
3644	420949.12	3734987.49	4.98E-08	2.28E-07	4.98E-10	2.78E-07	6.83E-09	3.12E-08	0.00E+00	3.80E-08	4.19E-09	1.43E-08	0.00E+00	1.85E-08
3645	420940.06	3734991.29	4.82E-08	2.20E-07	4.82E-10	2.69E-07	6.61E-09	3.01E-08	0.00E+00	3.68E-08	4.06E-09	1.39E-08	0.00E+00	1.79E-08
3646	420930.99	3734995.09	4.65E-08	2.12E-07	4.64E-10	2.59E-07	6.37E-09	2.90E-08	0.00E+00	3.54E-08	3.91E-09	1.33E-08	0.00E+00	1.73E-08
3647	420921.93	3734998.89	4.46E-08	2.04E-07	4.46E-10	2.49E-07	6.11E-09	2.79E-08	0.00E+00	3.40E-08	3.75E-09	1.28E-08	0.00E+00	1.66E-08
3648	420912.86	3735002.69	4.26E-08	1.95E-07	4.26E-10	2.38E-07	5.84E-09	2.67E-08	0.00E+00	3.25E-08	3.59E-09	1.22E-08	0.00E+00	1.58E-08
3649	420903.8	3735006.49	4.06E-08	1.86E-07	4.06E-10	2.27E-07	5.57E-09	2.54E-08	0.00E+00	3.10E-08	3.42E-09	1.17E-08	0.00E+00	1.51E-08
3650	420894.73	3735010.29	3.86E-08	1.77E-07	3.86E-10	2.16E-07	5.29E-09	2.41E-08	0.00E+00	2.94E-08	3.25E-09	1.11E-08	0.00E+00	1.43E-08
3651	420885.67	3735014.09	3.66E-08	1.67E-07	3.66E-10	2.04E-07	5.02E-09	2.29E-08	0.00E+00	2.79E-08	3.08E-09	1.05E-08	0.00E+00	1.36E-08
3652	420876.6	3735017.89	3.46E-08	1.58E-07	3.46E-10	1.93E-07	4.74E-09	2.16E-08	0.00E+00	2.64E-08	2.91E-09	9.94E-09	0.00E+00	1.29E-08
3653	420867.54	3735021.69	3.26E-08	1.49E-07	3.25E-10	1.82E-07	4.46E-09	2.04E-08	0.00E+00	2.48E-08	2.74E-09	9.36E-09	0.00E+00	1.21E-08
3654	420776.89	3735059.68	1.54E-08	7.03E-08	1.54E-10	8.59E-08	2.11E-09	9.62E-09	0.00E+00	1.17E-08	1.29E-09	4.42E-09	0.00E+00	5.71E-09
3655	420767.82	3735063.48	1.41E-08	6.45E-08	1.41E-10	7.88E-08	1.94E-09	8.83E-09	0.00E+00	1.08E-08	1.19E-09	4.06E-09	0.00E+00	5.24E-09
3656	420758.76	3735067.28	1.30E-08	5.92E-08	1.29E-10	7.23E-08	1.78E-09	8.10E-09	0.00E+00	9.87E-09	1.09E-09	3.72E-09	0.00E+00	4.81E-09
3657	420749.69	3735071.08	1.19E-08	5.43E-08	1.19E-10	6.63E-08	1.63E-09	7.43E-09	0.00E+00	9.06E-09	1.00E-09	3.41E-09	0.00E+00	4.41E-09
3658	421272.86	3734539.38	1.83E-08	8.36E-08	1.83E-10	1.02E-07	2.51E-09	1.14E-08	0.00E+00	1.39E-08	1.54E-09	5.25E-09	0.00E+00	6.79E-09
3659	421273.13	3734529.39	1.74E-08	7.96E-08	1.74E-10	9.72E-08	2.39E-09	1.09E-08	0.00E+00	1.33E-08	1.46E-09	5.00E-09	0.00E+00	6.47E-09
3660	421273.4	3734519.41	1.66E-08	7.58E-08	1.66E-10	9.25E-08	2.27E-09	1.04E-08	0.00E+00	1.26E-08	1.39E-09	4.76E-09	0.00E+00	6.16E-09
3661	421304.76	3734568.48	1.78E-08	8.12E-08	1.77E-10	9.91E-08	2.43E-09	1.11E-08	0.00E+00	1.35E-08	1.49E-09	5.10E-09	0.00E+00	6.60E-09
3662	421285.19	3734613.61	2.31E-08	1.06E-07	2.31E-10	1.29E-07	3.17E-09	1.45E-08	0.00E+00	1.76E-08	1.95E-09	6.65E-09	0.00E+00	8.60E-09
3663	421281.28	3734622.63	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	7.01E-09	0.00E+00	9.06E-09
3664	421277.36	3734631.66	2.57E-08	1.17E-07	2.56E-10	1.43E-07	3.52E-09	1.60E-08	0.00E+00	1.96E-08	2.16E-09	7.37E-09	0.00E+00	9.53E-09
3665	421273.45	3734640.68	2.69E-08	1.23E-07	2.69E-10	1.50E-07	3.69E-09	1.68E-08	0.00E+00	2.05E-08	2.26E-09	7.73E-09	0.00E+00	9.99E-09
3666	421269.54	3734649.71	2.81E-08	1.28E-07	2.81E-10	1.57E-07	3.85E-09	1.76E-08	0.00E+00	2.14E-08	2.36E-09	8.07E-09	0.00E+00	1.04E-08
3667	421265.63	3734658.73	2.93E-08	1.34E-07	2.93E-10	1.63E-07	4.01E-09	1.83E-08	0.00E+00	2.23E-08	2.46E-09	8.41E-09	0.00E+00	1.09E-08
3668	421261.71	3734667.76	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.74E-09	0.00E+00	1.13E-08
3669	421257.8	3734676.79	3.15E-08	1.44E-07	3.15E-10	1.76E-07	4.32E-09	1.97E-08	0.00E+00	2.40E-08	2.65E-09	9.06E-09	0.00E+00	1.17E-08
3670	421253.89	3734685.81	3.26E-08	1.49E-07	3.26E-10	1.82E-07	4.47E-09	2.04E-08	0.00E+00	2.49E-08	2.74E-09	9.37E-09	0.00E+00	1.21E-08
3671	421249.97	3734694.84	3.37E-08	1.54E-07	3.37E-10	1.88E-07	4.62E-09	2.11E-08	0.00E+00	2.57E-08	2.83E-09	9.68E-09	0.00E+00	1.25E-08

3672	421246.06	3734703.86	3.47E-08	1.59E-07	3.47E-10	1.94E-07	4.76E-09	2.17E-08	0.00E+00	2.65E-08	2.92E-09	9.97E-09	0.00E+00	1.29E-08
3673	421242.15	3734712.89	3.57E-08	1.63E-07	3.57E-10	1.99E-07	4.90E-09	2.23E-08	0.00E+00	2.72E-08	3.00E-09	1.03E-08	0.00E+00	1.33E-08
3674	421238.23	3734721.91	3.67E-08	1.68E-07	3.67E-10	2.05E-07	5.03E-09	2.29E-08	0.00E+00	2.80E-08	3.09E-09	1.05E-08	0.00E+00	1.36E-08
3675	421234.32	3734730.94	3.76E-08	1.72E-07	3.76E-10	2.10E-07	5.16E-09	2.35E-08	0.00E+00	2.87E-08	3.16E-09	1.08E-08	0.00E+00	1.40E-08
3676	421230.41	3734739.97	3.86E-08	1.76E-07	3.85E-10	2.15E-07	5.29E-09	2.41E-08	0.00E+00	2.94E-08	3.24E-09	1.11E-08	0.00E+00	1.43E-08
3677	421226.49	3734748.99	3.96E-08	1.81E-07	3.95E-10	2.21E-07	5.42E-09	2.47E-08	0.00E+00	3.02E-08	3.33E-09	1.14E-08	0.00E+00	1.47E-08
3678	421222.58	3734758.02	4.05E-08	1.85E-07	4.05E-10	2.26E-07	5.55E-09	2.53E-08	0.00E+00	3.09E-08	3.41E-09	1.16E-08	0.00E+00	1.51E-08
3679	421218.67	3734767.04	4.12E-08	1.89E-07	4.12E-10	2.30E-07	5.65E-09	2.58E-08	0.00E+00	3.14E-08	3.47E-09	1.19E-08	0.00E+00	1.53E-08
3680	421214.75	3734776.07	4.21E-08	1.93E-07	4.21E-10	2.35E-07	5.78E-09	2.63E-08	0.00E+00	3.21E-08	3.54E-09	1.21E-08	0.00E+00	1.57E-08
3681	421210.84	3734785.09	4.30E-08	1.96E-07	4.29E-10	2.40E-07	5.89E-09	2.69E-08	0.00E+00	3.27E-08	3.61E-09	1.23E-08	0.00E+00	1.60E-08
3682	421206.93	3734794.12	4.36E-08	2.00E-07	4.36E-10	2.44E-07	5.98E-09	2.73E-08	0.00E+00	3.33E-08	3.67E-09	1.25E-08	0.00E+00	1.62E-08
3683	421195.19	3734821.2	4.49E-08	2.05E-07	4.49E-10	2.51E-07	6.16E-09	2.81E-08	0.00E+00	3.42E-08	3.78E-09	1.29E-08	0.00E+00	1.67E-08
3684	421191.28	3734830.22	4.51E-08	2.06E-07	4.51E-10	2.52E-07	6.19E-09	2.82E-08	0.00E+00	3.44E-08	3.80E-09	1.30E-08	0.00E+00	1.68E-08
3685	421187.36	3734839.25	4.52E-08	2.07E-07	4.52E-10	2.52E-07	6.20E-09	2.83E-08	0.00E+00	3.45E-08	3.80E-09	1.30E-08	0.00E+00	1.68E-08
3686	421183.45	3734848.27	4.52E-08	2.07E-07	4.52E-10	2.52E-07	6.20E-09	2.83E-08	0.00E+00	3.45E-08	3.80E-09	1.30E-08	0.00E+00	1.68E-08
3687	421179.54	3734857.3	4.51E-08	2.06E-07	4.51E-10	2.52E-07	6.19E-09	2.82E-08	0.00E+00	3.44E-08	3.80E-09	1.30E-08	0.00E+00	1.68E-08
3688	421175.62	3734866.32	4.50E-08	2.06E-07	4.50E-10	2.51E-07	6.17E-09	2.81E-08	0.00E+00	3.43E-08	3.79E-09	1.29E-08	0.00E+00	1.67E-08
3689	421171.71	3734875.35	4.48E-08	2.05E-07	4.48E-10	2.50E-07	6.14E-09	2.80E-08	0.00E+00	3.42E-08	3.77E-09	1.29E-08	0.00E+00	1.66E-08
3690	421167.8	3734884.38	4.47E-08	2.04E-07	4.46E-10	2.49E-07	6.12E-09	2.79E-08	0.00E+00	3.40E-08	3.76E-09	1.28E-08	0.00E+00	1.66E-08
3691	421163.88	3734893.4	4.45E-08	2.04E-07	4.45E-10	2.49E-07	6.10E-09	2.78E-08	0.00E+00	3.39E-08	3.75E-09	1.28E-08	0.00E+00	1.65E-08
3692	421159.97	3734902.43	4.44E-08	2.03E-07	4.43E-10	2.48E-07	6.08E-09	2.77E-08	0.00E+00	3.38E-08	3.73E-09	1.27E-08	0.00E+00	1.65E-08
3693	421156.06	3734911.45	4.41E-08	2.02E-07	4.41E-10	2.46E-07	6.05E-09	2.76E-08	0.00E+00	3.36E-08	3.71E-09	1.27E-08	0.00E+00	1.64E-08
3694	421152.14	3734920.48	4.40E-08	2.01E-07	4.40E-10	2.46E-07	6.03E-09	2.75E-08	0.00E+00	3.36E-08	3.70E-09	1.26E-08	0.00E+00	1.64E-08
3695	421148.23	3734929.5	4.39E-08	2.01E-07	4.39E-10	2.45E-07	6.02E-09	2.74E-08	0.00E+00	3.35E-08	3.69E-09	1.26E-08	0.00E+00	1.63E-08
3696	421144.32	3734938.53	4.37E-08	2.00E-07	4.37E-10	2.44E-07	6.00E-09	2.73E-08	0.00E+00	3.33E-08	3.68E-09	1.26E-08	0.00E+00	1.62E-08
3697	421131.33	3734951.36	4.45E-08	2.03E-07	4.44E-10	2.48E-07	6.10E-09	2.78E-08	0.00E+00	3.39E-08	3.74E-09	1.28E-08	0.00E+00	1.65E-08
3698	421122.26	3734955.16	4.53E-08	2.07E-07	4.53E-10	2.53E-07	6.21E-09	2.83E-08	0.00E+00	3.45E-08	3.81E-09	1.30E-08	0.00E+00	1.68E-08
3699	421085.97	3734970.37	4.79E-08	2.19E-07	4.79E-10	2.67E-07	6.57E-09	2.99E-08	0.00E+00	3.65E-08	4.03E-09	1.38E-08	0.00E+00	1.78E-08
3700	421076.9	3734974.17	4.83E-08	2.21E-07	4.83E-10	2.70E-07	6.62E-09	3.02E-08	0.00E+00	3.68E-08	4.06E-09	1.39E-08	0.00E+00	1.79E-08
3701	421067.82	3734977.98	4.86E-08	2.22E-07	4.86E-10	2.71E-07	6.67E-09	3.04E-08	0.00E+00	3.71E-08	4.09E-09	1.40E-08	0.00E+00	1.81E-08
3702	421058.75	3734981.78	4.88E-08	2.23E-07	4.88E-10	2.73E-07	6.69E-09	3.05E-08	0.00E+00	3.72E-08	4.11E-09	1.40E-08	0.00E+00	1.81E-08
3703	421049.68	3734985.58	4.89E-08	2.24E-07	4.89E-10	2.73E-07	6.71E-09	3.06E-08	0.00E+00	3.73E-08	4.12E-09	1.41E-08	0.00E+00	1.82E-08
3704	421040.6	3734989.39	4.89E-08	2.23E-07	4.88E-10	2.73E-07	6.70E-09	3.05E-08	0.00E+00	3.72E-08	4.11E-09	1.40E-08	0.00E+00	1.82E-08
3705	421031.53	3734993.19	4.86E-08	2.22E-07	4.86E-10	2.72E-07	6.67E-09	3.04E-08	0.00E+00	3.71E-08	4.09E-09	1.40E-08	0.00E+00	1.81E-08
3706	421022.46	3734996.99	4.82E-08	2.21E-07	4.82E-10	2.69E-07	6.61E-09	3.02E-08	0.00E+00	3.68E-08	4.06E-09	1.39E-08	0.00E+00	1.79E-08
3707	420995.24	3735008.4	4.63E-08	2.12E-07	4.63E-10	2.59E-07	6.35E-09	2.90E-08	0.00E+00	3.53E-08	3.90E-09	1.33E-08	0.00E+00	1.72E-08
3708	420986.17	3735012.2	4.54E-08	2.08E-07	4.54E-10	2.54E-07	6.23E-09	2.84E-08	0.00E+00	3.46E-08	3.82E-09	1.31E-08	0.00E+00	1.69E-08
3709	420977.1	3735016.01	4.44E-08	2.03E-07	4.44E-10	2.48E-07	6.09E-09	2.78E-08	0.00E+00	3.38E-08	3.74E-09	1.28E-08	0.00E+00	1.65E-08
3710	420968.02	3735019.81	4.32E-08	1.98E-07	4.32E-10	2.41E-07	5.93E-09	2.70E-08	0.00E+00	3.30E-08	3.64E-09	1.24E-08	0.00E+00	1.61E-08
3711	420913.59	3735042.63	3.44E-08	1.57E-07	3.43E-10	1.92E-07	4.71E-09	2.15E-08	0.00E+00	2.62E-08	2.89E-09	9.87E-09	0.00E+00	1.28E-08
3712	420904.52	3735046.43	3.27E-08	1.49E-07	3.27E-10	1.82E-07	4.48E-09	2.04E-08	0.00E+00	2.49E-08	2.75E-09	9.39E-09	0.00E+00	1.21E-08
3713	420895.44	3735050.23	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.36E-08	2.61E-09	8.91E-09	0.00E+00	1.15E-08
3714	420886.37	3735054.03	2.93E-08	1.34E-07	2.93E-10	1.64E-07	4.02E-09	1.83E-08	0.00E+00	2.23E-08	2.47E-09	8.42E-09	0.00E+00	1.09E-08
3715	420877.3	3735057.84	2.76E-08	1.26E-07	2.76E-10	1.54E-07	3.79E-09	1.73E-08	0.00E+00	2.11E-08	2.32E-09	7.94E-09	0.00E+00	1.03E-08
3716	420868.22	3735061.64	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.56E-09	1.62E-08	0.00E+00	1.98E-08	2.18E-09	7.46E-09	0.00E+00	9.65E-09
3717	420859.15	3735065.44	2.43E-08	1.11E-07	2.43E-10	1.36E-07	3.33E-09	1.52E-08	0.00E+00	1.85E-08	2.04E-09	6.98E-09	0.00E+00	9.03E-09
3718	420850.08	3735069.24	2.27E-08	1.04E-07	2.27E-10	1.27E-07	3.11E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.51E-09	0.00E+00	8.42E-09
3719	420841.01	3735073.05	2.11E-08	9.64E-08	2.11E-10	1.18E-07	2.89E-09	1.32E-08	0.00E+00	1.61E-08	1.77E-09	6.06E-09	0.00E+00	7.83E-09
3720	420831.93	3735076.85	1.96E-08	8.97E-08	1.96E-10	1.09E-07	2.69E-09	1.23E-08	0.00E+00	1.50E-08	1.65E-09	5.64E-09	0.00E+00	7.29E-09
3721	421313.12	3734530.46	1.47E-08	6.73E-08	1.47E-10	8.21E-08	2.02E-09	9.20E-09	0.00E+00	1.12E-08	1.24E-09	4.23E-09	0.00E+00	5.47E-09
3722	421313.38	3734520.48	1.40E-08	6.42E-08	1.40E-10	7.84E-08	1.93E-09	8.78E-09	0.00E+00	1.07E-08	1.18E-09	4.04E-09	0.00E+00	5.22E-09
3723	421344.74	3734569.56	1.49E-08	6.82E-08	1.49E-10	8.33E-08	2.05E-09	9.33E-09	0.00E+00	1.14E-08	1.26E-09	4.29E-09	0.00E+00	5.54E-09
3724	421340.82	3734578.59	1.56E-08	7.15E-08	1.56E-10	8.73E-08	2.14E-09	9.77E-09	0.00E+00	1.19E-08	1.32E-09	4.49E-09	0.00E+00	5.81E-09
3725	421336.9	3734587.62	1.64E-08	7.52E-08	1.64E-10	9.18E-08	2.25E-09	1.03E-08	0.00E+00	1.25E-08	1.38E-09	4.73E-09	0.00E+00	6.11E-09
3726	421332.99	3734596.66	1.73E-08	7.90E-08	1.73E-10	9.65E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.45E-09	4.97E-09	0.00E+00	6.42E-09
3727	421329.07	3734605.69	1.81E-08	8.30E-08	1.81E-10	1.01E-07	2.49E-09	1.13E-08	0.00E+00	1.38E-08	1.53E-09	5.21E-09	0.00E+00	6.74E-09
3728	421325.16	3734614.72	1.91E-08	8.71E-08	1.90E-10	1.06E-07	2.61E-09	1.19E-08	0.00E+00	1.45E-08	1.60E-09	5.48E-09	0.00E+00	7.08E-09
3729	421321.24	3734623.75	2.00E-08	9.16E-08	2.00E-10	1.12E-07	2.75E-09	1.25E-08	0.00E+00	1.53E-08	1.68E-09	5.75E-09	0.00E+00	7.44E-09
3730	421317.32	3734632.79	2.10E-08	9.62E-08	2.10E-10	1.17E-07	2.89E-09	1.32E-08	0.00E+00	1.60E-08	1.77E-09	6.05E-09	0.00E+00	7.82E-09
3731	421313.41	3734641.82	2.21E-08	1.01E-07	2.21E-10	1.23E-07	3.03E-09	1.38E-08	0.00E+00	1.68E-08	1.86E-09	6.35E-09	0.00E+00	8.21E-09
3732	421309.49	3734650.85	2.32E-08	1.06E-07	2.31E-10	1.29E-07	3.17E-09	1.45E-08	0.00E+00	1.77E-08	1.95E-09	6.66E-09	0.00E+00	8.60E-09
3733	421305.58	3734659.88	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.51E-08	0.00E+00	1.85E-08	2.04E-09	6.96E-09	0.00E+00	9.00E-09
3734	421301.66	3734668.91	2.53E-08	1.16E-07	2.53E-10	1.41E-07	3.46E-09	1.58E-08	0.00E+00	1.93E-08	2.13E-09	7.26E-09	0.00E+00	9.39E-09
3735	421278.16	3734723.11	3.08E-08	1.41E-07	3.08E-10	1.72E-07	4.23E-09	1.93E-08	0.00E+00	2.35E-08	2.59E-09	8.86E-09	0.00E+00	1.15E-08
3736	421274.25	3734732.14	3.17E-08	1.45E-07	3.17E-10	1.77E-07	4.34E-09	1.98E-08	0.00E+00	2.41E-08	2.66E-09	9.10E-09	0.00E+00	1.18E-08
3737	421270.33	3734741.17	3.25E-08	1.48E-07	3.24E-10	1.81E-07	4.45E-09	2.03E-08	0.00E+00	2.47E-08	2.73E-09	9.33E-09	0.00E+00	1.21E-08
3738	421266.42	3734750.2	3.32E-08	1.52E-07	3.32E-10	1.85E-07	4.56E-09	2.08E-08	0.00E+00	2.53E-08	2.80E-09	9.55E-09	0.00E+00	1.23E-08
3739	421262.5	3734759.24	3.40E-08	1.55E-07	3.40E-10	1.90E-07	4.66E-09	2.12E-08	0.00E+00	2.59E-08	2.86E-09	9.76E-09	0.00E+00	1.26E-08
3740	421258.58	3734768.27	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.74E-09	2.16E-08	0.00E+00	2.63E-08	2.91E-09	9.93E-09	0.00E+00	1.28E-08
3741	421254.67	3734777.3	3.53E-08	1.61E-07	3.52E-10	1.97E-07	4.83E-09	2.20E-08	0.00E+00	2.69E-08	2.97E-09	1.01E-08	0.00E+00	1.31E-08
3742	421250.75	3734786.33	3.59E-08	1.64E-07	3.59E-10	2.01E-07	4.93E-09	2.25E-08	0.00E+00	2.74E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
3743	421246.84	3734795.37	3.65E-08	1.67E-07	3.65E-10	2.04E-07	5.01E-09	2.28E-08	0.00E+00	2.78E-08	3.07E-09	1.05E-08	0.00E+00	1.36E-08
3744	421235.09	3734822.46	3.79E-08	1.73E-07	3.79E-10	2.12E-07	5.19E-09	2.37E-08	0.00E+00	2.89E-08	3.19E-09	1.09E-08	0.00E+00	1.41E-08
3745	421231.17	3734831.49	3.83E-08	1.75E-07	3.82E-10	2.14E-07	5.24E-09	2.39E-08	0.00E+00	2.92E-08	3.22E-09	1.10E-08	0.00E+00	1.42E-08
3746	421227.26	3734840.53	3.86E-08	1.76E-07	3.86E-10	2.15E-07	5.29E-09	2.41E-08	0.00E+00	2.94E-08	3.25E-09	1.11E-08	0.00E+00	1.43E-08

3747	421223.34	3734849.56	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.33E-09	2.43E-08	0.00E+00	2.96E-08	3.27E-09	1.12E-08	0.00E+00	1.44E-08
3748	421219.42	3734858.59	3.90E-08	1.78E-07	3.90E-10	2.18E-07	5.35E-09	2.44E-08	0.00E+00	2.97E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
3749	421215.51	3734867.62	3.91E-08	1.79E-07	3.91E-10	2.18E-07	5.36E-09	2.44E-08	0.00E+00	2.98E-08	3.29E-09	1.12E-08	0.00E+00	1.45E-08
3750	421211.59	3734876.66	3.91E-08	1.79E-07	3.91E-10	2.18E-07	5.36E-09	2.45E-08	0.00E+00	2.98E-08	3.29E-09	1.12E-08	0.00E+00	1.45E-08
3751	421207.68	3734885.69	3.92E-08	1.79E-07	3.91E-10	2.19E-07	5.37E-09	2.45E-08	0.00E+00	2.99E-08	3.29E-09	1.13E-08	0.00E+00	1.45E-08
3752	421203.76	3734894.72	3.92E-08	1.79E-07	3.92E-10	2.19E-07	5.37E-09	2.45E-08	0.00E+00	2.99E-08	3.30E-09	1.13E-08	0.00E+00	1.46E-08
3753	421199.84	3734903.75	3.92E-08	1.79E-07	3.92E-10	2.19E-07	5.37E-09	2.45E-08	0.00E+00	2.99E-08	3.30E-09	1.13E-08	0.00E+00	1.46E-08
3754	421195.93	3734912.78	3.91E-08	1.79E-07	3.91E-10	2.18E-07	5.36E-09	2.44E-08	0.00E+00	2.98E-08	3.29E-09	1.12E-08	0.00E+00	1.45E-08
3755	421192.01	3734921.82	3.90E-08	1.79E-07	3.90E-10	2.18E-07	5.35E-09	2.44E-08	0.00E+00	2.98E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
3756	421188.1	3734930.85	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.34E-09	2.43E-08	0.00E+00	2.97E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
3757	421184.18	3734939.88	3.88E-08	1.77E-07	3.88E-10	2.17E-07	5.32E-09	2.43E-08	0.00E+00	2.96E-08	3.26E-09	1.11E-08	0.00E+00	1.44E-08
3758	421180.26	3734948.91	3.87E-08	1.77E-07	3.87E-10	2.16E-07	5.30E-09	2.42E-08	0.00E+00	2.95E-08	3.25E-09	1.11E-08	0.00E+00	1.44E-08
3759	421176.35	3734957.95	3.85E-08	1.76E-07	3.85E-10	2.15E-07	5.28E-09	2.41E-08	0.00E+00	2.94E-08	3.24E-09	1.11E-08	0.00E+00	1.43E-08
3760	421172.43	3734966.98	3.83E-08	1.75E-07	3.83E-10	2.14E-07	5.25E-09	2.40E-08	0.00E+00	2.92E-08	3.22E-09	1.10E-08	0.00E+00	1.42E-08
3761	421159.44	3734979.82	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.33E-09	2.43E-08	0.00E+00	2.97E-08	3.27E-09	1.12E-08	0.00E+00	1.45E-08
3762	421150.36	3734983.62	3.96E-08	1.81E-07	3.96E-10	2.21E-07	5.43E-09	2.48E-08	0.00E+00	3.02E-08	3.33E-09	1.14E-08	0.00E+00	1.47E-08
3763	421141.28	3734987.43	4.03E-08	1.84E-07	4.03E-10	2.25E-07	5.52E-09	2.52E-08	0.00E+00	3.07E-08	3.39E-09	1.16E-08	0.00E+00	1.50E-08
3764	421132.2	3734991.23	4.09E-08	1.87E-07	4.08E-10	2.28E-07	5.60E-09	2.56E-08	0.00E+00	3.12E-08	3.44E-09	1.17E-08	0.00E+00	1.52E-08
3765	421123.12	3734995.04	4.14E-08	1.89E-07	4.14E-10	2.31E-07	5.67E-09	2.59E-08	0.00E+00	3.16E-08	3.48E-09	1.19E-08	0.00E+00	1.54E-08
3766	421086.8	3735010.26	4.27E-08	1.95E-07	4.26E-10	2.38E-07	5.85E-09	2.67E-08	0.00E+00	3.25E-08	3.59E-09	1.23E-08	0.00E+00	1.58E-08
3767	421077.72	3735014.07	4.27E-08	1.95E-07	4.27E-10	2.38E-07	5.85E-09	2.67E-08	0.00E+00	3.26E-08	3.59E-09	1.23E-08	0.00E+00	1.59E-08
3768	421068.64	3735017.87	4.26E-08	1.95E-07	4.26E-10	2.38E-07	5.85E-09	2.67E-08	0.00E+00	3.25E-08	3.59E-09	1.23E-08	0.00E+00	1.58E-08
3769	421059.56	3735021.68	4.24E-08	1.94E-07	4.24E-10	2.37E-07	5.82E-09	2.65E-08	0.00E+00	3.23E-08	3.57E-09	1.22E-08	0.00E+00	1.58E-08
3770	421014.17	3735040.71	4.04E-08	1.85E-07	4.04E-10	2.25E-07	5.54E-09	2.52E-08	0.00E+00	3.08E-08	3.40E-09	1.16E-08	0.00E+00	1.50E-08
3771	421005.09	3735044.51	3.97E-08	1.81E-07	3.97E-10	2.22E-07	5.44E-09	2.48E-08	0.00E+00	3.03E-08	3.34E-09	1.14E-08	0.00E+00	1.47E-08
3772	420996.01	3735048.32	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.33E-09	2.43E-08	0.00E+00	2.96E-08	3.27E-09	1.12E-08	0.00E+00	1.44E-08
3773	420986.93	3735052.12	3.79E-08	1.73E-07	3.79E-10	2.12E-07	5.20E-09	2.37E-08	0.00E+00	2.89E-08	3.19E-09	1.09E-08	0.00E+00	1.41E-08
3774	420977.85	3735055.93	3.69E-08	1.69E-07	3.69E-10	2.06E-07	5.06E-09	2.31E-08	0.00E+00	2.81E-08	3.10E-09	1.06E-08	0.00E+00	1.37E-08
3775	420968.77	3735059.73	3.58E-08	1.63E-07	3.57E-10	2.00E-07	4.90E-09	2.24E-08	0.00E+00	2.73E-08	3.01E-09	1.03E-08	0.00E+00	1.33E-08
3776	420959.69	3735063.54	3.46E-08	1.58E-07	3.46E-10	1.93E-07	4.74E-09	2.16E-08	0.00E+00	2.64E-08	2.91E-09	9.93E-09	0.00E+00	1.28E-08
3777	420950.61	3735067.35	3.34E-08	1.53E-07	3.33E-10	1.86E-07	4.57E-09	2.09E-08	0.00E+00	2.54E-08	2.81E-09	9.59E-09	0.00E+00	1.24E-08
3778	420941.53	3735071.15	3.21E-08	1.47E-07	3.21E-10	1.79E-07	4.40E-09	2.01E-08	0.00E+00	2.45E-08	2.70E-09	9.23E-09	0.00E+00	1.19E-08
3779	420932.45	3735074.96	3.08E-08	1.41E-07	3.08E-10	1.72E-07	4.22E-09	1.93E-08	0.00E+00	2.35E-08	2.59E-09	8.85E-09	0.00E+00	1.14E-08
3780	420923.37	3735078.76	2.94E-08	1.35E-07	2.94E-10	1.64E-07	4.04E-09	1.84E-08	0.00E+00	2.24E-08	2.48E-09	8.46E-09	0.00E+00	1.09E-08
3781	420914.29	3735082.57	2.80E-08	1.28E-07	2.80E-10	1.56E-07	3.84E-09	1.75E-08	0.00E+00	2.14E-08	2.36E-09	8.05E-09	0.00E+00	1.04E-08
3782	420905.22	3735086.37	2.66E-08	1.22E-07	2.66E-10	1.49E-07	3.65E-09	1.66E-08	0.00E+00	2.03E-08	2.24E-09	7.65E-09	0.00E+00	9.88E-09
3783	420896.14	3735090.18	2.52E-08	1.15E-07	2.52E-10	1.41E-07	3.45E-09	1.57E-08	0.00E+00	1.92E-08	2.12E-09	7.24E-09	0.00E+00	9.36E-09
3784	420887.06	3735093.98	2.38E-08	1.09E-07	2.38E-10	1.33E-07	3.26E-09	1.49E-08	0.00E+00	1.82E-08	2.00E-09	6.84E-09	0.00E+00	8.85E-09
3785	420877.98	3735097.79	2.24E-08	1.03E-07	2.24E-10	1.25E-07	3.08E-09	1.40E-08	0.00E+00	1.71E-08	1.89E-09	6.45E-09	0.00E+00	8.33E-09
3786	420868.9	3735101.6	2.11E-08	9.63E-08	2.10E-10	1.18E-07	2.89E-09	1.32E-08	0.00E+00	1.61E-08	1.77E-09	6.05E-09	0.00E+00	7.82E-09
3787	420859.82	3735105.4	1.97E-08	9.00E-08	1.97E-10	1.10E-07	2.70E-09	1.23E-08	0.00E+00	1.50E-08	1.66E-09	5.66E-09	0.00E+00	7.31E-09
3788	420850.74	3735109.21	1.84E-08	8.40E-08	1.84E-10	1.03E-07	2.52E-09	1.15E-08	0.00E+00	1.40E-08	1.55E-09	5.28E-09	0.00E+00	6.82E-09
3789	420841.66	3735113.01	1.71E-08	7.83E-08	1.71E-10	9.56E-08	2.35E-09	1.07E-08	0.00E+00	1.30E-08	1.44E-09	4.92E-09	0.00E+00	6.36E-09
3790	420832.58	3735116.82	1.60E-08	7.30E-08	1.60E-10	8.92E-08	2.19E-09	9.99E-09	0.00E+00	1.22E-08	1.34E-09	4.59E-09	0.00E+00	5.93E-09
3791	420823.5	3735120.62	1.49E-08	6.81E-08	1.49E-10	8.31E-08	2.04E-09	9.31E-09	0.00E+00	1.14E-08	1.25E-09	4.28E-09	0.00E+00	5.53E-09
3792	421369.04	3734606.79	1.54E-08	7.05E-08	1.54E-10	8.60E-08	2.11E-09	9.63E-09	0.00E+00	1.17E-08	1.30E-09	4.43E-09	0.00E+00	5.72E-09
3793	421365.12	3734615.83	1.62E-08	7.39E-08	1.62E-10	9.03E-08	2.22E-09	1.01E-08	0.00E+00	1.23E-08	1.36E-09	4.65E-09	0.00E+00	6.01E-09
3794	421361.21	3734624.87	1.70E-08	7.76E-08	1.70E-10	9.47E-08	2.33E-09	1.06E-08	0.00E+00	1.29E-08	1.43E-09	4.88E-09	0.00E+00	6.30E-09
3795	421357.29	3734633.91	1.78E-08	8.13E-08	1.78E-10	9.93E-08	2.44E-09	1.11E-08	0.00E+00	1.36E-08	1.50E-09	5.11E-09	0.00E+00	6.61E-09
3796	421353.37	3734642.94	1.86E-08	8.50E-08	1.86E-10	1.04E-07	2.55E-09	1.16E-08	0.00E+00	1.42E-08	1.56E-09	5.35E-09	0.00E+00	6.91E-09
3797	421349.45	3734651.98	1.94E-08	8.87E-08	1.94E-10	1.08E-07	2.66E-09	1.21E-08	0.00E+00	1.48E-08	1.63E-09	5.58E-09	0.00E+00	7.21E-09
3798	421345.53	3734661.02	2.02E-08	9.25E-08	2.02E-10	1.13E-07	2.77E-09	1.27E-08	0.00E+00	1.54E-08	1.70E-09	5.82E-09	0.00E+00	7.52E-09
3799	421341.61	3734670.06	2.11E-08	9.64E-08	2.11E-10	1.18E-07	2.89E-09	1.32E-08	0.00E+00	1.61E-08	1.77E-09	6.06E-09	0.00E+00	7.84E-09
3800	421337.69	3734679.1	2.20E-08	1.00E-07	2.20E-10	1.23E-07	3.01E-09	1.37E-08	0.00E+00	1.68E-08	1.85E-09	6.31E-09	0.00E+00	8.16E-09
3801	421333.78	3734688.13	2.28E-08	1.04E-07	2.28E-10	1.28E-07	3.13E-09	1.43E-08	0.00E+00	1.74E-08	1.92E-09	6.56E-09	0.00E+00	8.49E-09
3802	421329.86	3734697.17	2.37E-08	1.08E-07	2.37E-10	1.32E-07	3.25E-09	1.48E-08	0.00E+00	1.81E-08	1.99E-09	6.81E-09	0.00E+00	8.80E-09
3803	421325.94	3734706.21	2.45E-08	1.12E-07	2.45E-10	1.37E-07	3.36E-09	1.53E-08	0.00E+00	1.87E-08	2.06E-09	7.04E-09	0.00E+00	9.10E-09
3804	421322.02	3734715.25	2.53E-08	1.16E-07	2.53E-10	1.41E-07	3.46E-09	1.58E-08	0.00E+00	1.93E-08	2.13E-09	7.26E-09	0.00E+00	9.39E-09
3805	421318.1	3734724.29	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.57E-09	1.63E-08	0.00E+00	1.98E-08	2.19E-09	7.48E-09	0.00E+00	9.66E-09
3806	421314.18	3734733.32	2.67E-08	1.22E-07	2.67E-10	1.49E-07	3.67E-09	1.67E-08	0.00E+00	2.04E-08	2.25E-09	7.69E-09	0.00E+00	9.94E-09
3807	421310.26	3734742.36	2.74E-08	1.25E-07	2.74E-10	1.53E-07	3.76E-09	1.72E-08	0.00E+00	2.09E-08	2.31E-09	7.89E-09	0.00E+00	1.02E-08
3808	421306.35	3734751.4	2.81E-08	1.28E-07	2.81E-10	1.57E-07	3.85E-09	1.76E-08	0.00E+00	2.14E-08	2.36E-09	8.07E-09	0.00E+00	1.04E-08
3809	421302.43	3734760.44	2.87E-08	1.31E-07	2.87E-10	1.60E-07	3.94E-09	1.80E-08	0.00E+00	2.19E-08	2.42E-09	8.25E-09	0.00E+00	1.07E-08
3810	421275	3734823.71	3.26E-08	1.49E-07	3.26E-10	1.82E-07	4.47E-09	2.04E-08	0.00E+00	2.49E-08	2.75E-09	9.38E-09	0.00E+00	1.21E-08
3811	421271.08	3734832.74	3.30E-08	1.51E-07	3.30E-10	1.84E-07	4.52E-09	2.06E-08	0.00E+00	2.52E-08	2.78E-09	9.48E-09	0.00E+00	1.23E-08
3812	421267.16	3734841.78	3.33E-08	1.52E-07	3.33E-10	1.86E-07	4.57E-09	2.08E-08	0.00E+00	2.54E-08	2.80E-09	9.57E-09	0.00E+00	1.24E-08
3813	421263.24	3734850.82	3.36E-08	1.54E-07	3.36E-10	1.87E-07	4.60E-09	2.10E-08	0.00E+00	2.56E-08	2.83E-09	9.65E-09	0.00E+00	1.25E-08
3814	421259.32	3734859.86	3.38E-08	1.55E-07	3.38E-10	1.89E-07	4.64E-09	2.11E-08	0.00E+00	2.58E-08	2.85E-09	9.72E-09	0.00E+00	1.26E-08
3815	421255.41	3734868.9	3.40E-08	1.56E-07	3.40E-10	1.90E-07	4.66E-09	2.13E-08	0.00E+00	2.59E-08	2.86E-09	9.78E-09	0.00E+00	1.26E-08
3816	421251.49	3734877.93	3.42E-08	1.56E-07	3.42E-10	1.91E-07	4.69E-09	2.14E-08	0.00E+00	2.61E-08	2.88E-09	9.82E-09	0.00E+00	1.27E-08
3817	421247.57	3734886.97	3.43E-08	1.57E-07	3.43E-10	1.91E-07	4.70E-09	2.14E-08	0.00E+00	2.61E-08	2.89E-09	9.86E-09	0.00E+00	1.27E-08
3818	421243.65	3734896.01	3.44E-08	1.57E-07	3.44E-10	1.92E-07	4.71E-09	2.15E-08	0.00E+00	2.62E-08	2.89E-09	9.88E-09	0.00E+00	1.28E-08
3819	421239.73	3734905.05	3.44E-08	1.57E-07	3.44E-10	1.92E-07	4.72E-09	2.15E-08	0.00E+00	2.62E-08	2.90E-09	9.89E-09	0.00E+00	1.28E-08
3820	421235.81	3734914.09	3.45E-08	1.58E-07	3.45E-10	1.92E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.90E-09	9.91E-09	0.00E+00	1.28E-08
3821	421231.89	3734923.12	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.90E-09	9.92E-09	0.00E+00	1.28E-08

3822	421227.98	3734932.16	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.90E-09	9.92E-09	0.00E+00	1.28E-08
3823	421224.06	3734941.2	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.90E-09	9.92E-09	0.00E+00	1.28E-08
3824	421220.14	3734950.24	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.91E-09	9.92E-09	0.00E+00	1.28E-08
3825	421216.22	3734959.28	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.90E-09	9.92E-09	0.00E+00	1.28E-08
3826	421212.3	3734968.31	3.45E-08	1.58E-07	3.44E-10	1.92E-07	4.72E-09	2.15E-08	0.00E+00	2.63E-08	2.90E-09	9.90E-09	0.00E+00	1.28E-08
3827	421208.38	3734977.35	3.44E-08	1.57E-07	3.44E-10	1.92E-07	4.72E-09	2.15E-08	0.00E+00	2.62E-08	2.89E-09	9.88E-09	0.00E+00	1.28E-08
3828	421204.46	3734986.39	3.43E-08	1.57E-07	3.43E-10	1.91E-07	4.70E-09	2.14E-08	0.00E+00	2.61E-08	2.89E-09	9.85E-09	0.00E+00	1.27E-08
3829	421200.55	3734995.43	3.41E-08	1.56E-07	3.41E-10	1.91E-07	4.68E-09	2.13E-08	0.00E+00	2.60E-08	2.87E-09	9.81E-09	0.00E+00	1.27E-08
3830	421187.54	3735008.27	3.46E-08	1.58E-07	3.46E-10	1.93E-07	4.74E-09	2.16E-08	0.00E+00	2.64E-08	2.91E-09	9.94E-09	0.00E+00	1.29E-08
3831	421178.46	3735012.08	3.52E-08	1.61E-07	3.51E-10	1.96E-07	4.82E-09	2.20E-08	0.00E+00	2.68E-08	2.96E-09	1.01E-08	0.00E+00	1.31E-08
3832	421169.37	3735015.89	3.57E-08	1.63E-07	3.57E-10	1.99E-07	4.89E-09	2.23E-08	0.00E+00	2.72E-08	3.00E-09	1.03E-08	0.00E+00	1.33E-08
3833	421160.29	3735019.7	3.62E-08	1.65E-07	3.62E-10	2.02E-07	4.96E-09	2.26E-08	0.00E+00	2.76E-08	3.05E-09	1.04E-08	0.00E+00	1.34E-08
3834	421151.2	3735023.51	3.67E-08	1.68E-07	3.66E-10	2.05E-07	5.03E-09	2.29E-08	0.00E+00	2.79E-08	3.08E-09	1.05E-08	0.00E+00	1.36E-08
3835	421142.12	3735027.32	3.71E-08	1.69E-07	3.70E-10	2.07E-07	5.08E-09	2.32E-08	0.00E+00	2.83E-08	3.12E-09	1.07E-08	0.00E+00	1.38E-08
3836	421133.03	3735031.12	3.74E-08	1.71E-07	3.74E-10	2.09E-07	5.13E-09	2.34E-08	0.00E+00	2.85E-08	3.15E-09	1.07E-08	0.00E+00	1.39E-08
3837	421123.95	3735034.93	3.76E-08	1.72E-07	3.76E-10	2.10E-07	5.16E-09	2.35E-08	0.00E+00	2.87E-08	3.17E-09	1.08E-08	0.00E+00	1.40E-08
3838	421087.6	3735050.16	3.77E-08	1.72E-07	3.77E-10	2.10E-07	5.17E-09	2.36E-08	0.00E+00	2.87E-08	3.17E-09	1.08E-08	0.00E+00	1.40E-08
3839	421078.52	3735053.97	3.75E-08	1.71E-07	3.75E-10	2.09E-07	5.14E-09	2.35E-08	0.00E+00	2.86E-08	3.16E-09	1.08E-08	0.00E+00	1.39E-08
3840	421069.43	3735057.78	3.73E-08	1.71E-07	3.73E-10	2.08E-07	5.11E-09	2.33E-08	0.00E+00	2.84E-08	3.14E-09	1.07E-08	0.00E+00	1.39E-08
3841	421060.35	3735061.59	3.70E-08	1.69E-07	3.70E-10	2.07E-07	5.08E-09	2.32E-08	0.00E+00	2.82E-08	3.12E-09	1.06E-08	0.00E+00	1.38E-08
3842	421051.26	3735065.4	3.67E-08	1.68E-07	3.67E-10	2.05E-07	5.03E-09	2.29E-08	0.00E+00	2.80E-08	3.09E-09	1.05E-08	0.00E+00	1.36E-08
3843	421042.18	3735069.2	3.63E-08	1.66E-07	3.63E-10	2.03E-07	4.98E-09	2.27E-08	0.00E+00	2.77E-08	3.06E-09	1.04E-08	0.00E+00	1.35E-08
3844	421033.09	3735073.01	3.59E-08	1.64E-07	3.58E-10	2.00E-07	4.92E-09	2.24E-08	0.00E+00	2.73E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
3845	421024.01	3735076.82	3.53E-08	1.61E-07	3.53E-10	1.97E-07	4.84E-09	2.21E-08	0.00E+00	2.69E-08	2.97E-09	1.01E-08	0.00E+00	1.31E-08
3846	421014.92	3735080.63	3.46E-08	1.58E-07	3.46E-10	1.93E-07	4.75E-09	2.17E-08	0.00E+00	2.64E-08	2.91E-09	9.95E-09	0.00E+00	1.29E-08
3847	421005.84	3735084.44	3.39E-08	1.55E-07	3.39E-10	1.89E-07	4.64E-09	2.12E-08	0.00E+00	2.58E-08	2.85E-09	9.73E-09	0.00E+00	1.26E-08
3848	420996.75	3735088.24	3.30E-08	1.51E-07	3.30E-10	1.84E-07	4.53E-09	2.06E-08	0.00E+00	2.52E-08	2.78E-09	9.49E-09	0.00E+00	1.23E-08
3849	420987.67	3735092.05	3.21E-08	1.47E-07	3.21E-10	1.79E-07	4.40E-09	2.01E-08	0.00E+00	2.45E-08	2.70E-09	9.23E-09	0.00E+00	1.19E-08
3850	420978.58	3735095.86	3.11E-08	1.42E-07	3.11E-10	1.74E-07	4.27E-09	1.95E-08	0.00E+00	2.37E-08	2.62E-09	8.94E-09	0.00E+00	1.16E-08
3851	420969.5	3735099.67	3.01E-08	1.38E-07	3.01E-10	1.68E-07	4.12E-09	1.88E-08	0.00E+00	2.29E-08	2.53E-09	8.65E-09	0.00E+00	1.12E-08
3852	420960.41	3735103.48	2.90E-08	1.33E-07	2.90E-10	1.62E-07	3.97E-09	1.81E-08	0.00E+00	2.21E-08	2.44E-09	8.33E-09	0.00E+00	1.08E-08
3853	420951.33	3735107.28	2.79E-08	1.28E-07	2.79E-10	1.56E-07	3.83E-09	1.75E-08	0.00E+00	2.13E-08	2.35E-09	8.02E-09	0.00E+00	1.04E-08
3854	420942.24	3735111.09	2.68E-08	1.23E-07	2.68E-10	1.50E-07	3.67E-09	1.68E-08	0.00E+00	2.04E-08	2.25E-09	7.70E-09	0.00E+00	9.95E-09
3855	420933.16	3735114.9	2.57E-08	1.17E-07	2.56E-10	1.43E-07	3.52E-09	1.60E-08	0.00E+00	1.96E-08	2.16E-09	7.37E-09	0.00E+00	9.53E-09
3856	420924.07	3735118.71	2.45E-08	1.12E-07	2.45E-10	1.37E-07	3.36E-09	1.53E-08	0.00E+00	1.87E-08	2.06E-09	7.03E-09	0.00E+00	9.09E-09
3857	420914.99	3735122.52	2.33E-08	1.06E-07	2.33E-10	1.30E-07	3.19E-09	1.46E-08	0.00E+00	1.77E-08	1.96E-09	6.69E-09	0.00E+00	8.65E-09
3858	420905.9	3735126.33	2.21E-08	1.01E-07	2.21E-10	1.23E-07	3.03E-09	1.38E-08	0.00E+00	1.68E-08	1.86E-09	6.34E-09	0.00E+00	8.20E-09
3859	420896.82	3735130.13	2.09E-08	9.54E-08	2.09E-10	1.17E-07	2.86E-09	1.31E-08	0.00E+00	1.59E-08	1.76E-09	6.00E-09	0.00E+00	7.75E-09
3860	420887.73	3735133.94	1.96E-08	8.98E-08	1.96E-10	1.10E-07	2.69E-09	1.23E-08	0.00E+00	1.50E-08	1.65E-09	5.64E-09	0.00E+00	7.30E-09
3861	420878.65	3735137.75	1.84E-08	8.43E-08	1.84E-10	1.03E-07	2.53E-09	1.15E-08	0.00E+00	1.41E-08	1.55E-09	5.30E-09	0.00E+00	6.85E-09
3862	420869.56	3735141.56	1.73E-08	7.89E-08	1.72E-10	9.63E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.45E-09	4.96E-09	0.00E+00	6.41E-09
3863	420860.48	3735145.37	1.61E-08	7.38E-08	1.61E-10	9.01E-08	2.21E-09	1.01E-08	0.00E+00	1.23E-08	1.36E-09	4.64E-09	0.00E+00	6.00E-09
3864	420851.39	3735149.17	1.51E-08	6.89E-08	1.51E-10	8.41E-08	2.07E-09	9.42E-09	0.00E+00	1.15E-08	1.27E-09	4.33E-09	0.00E+00	5.60E-09
3865	420842.31	3735152.98	1.41E-08	6.43E-08	1.40E-10	7.84E-08	1.93E-09	8.79E-09	0.00E+00	1.07E-08	1.18E-09	4.04E-09	0.00E+00	5.22E-09
3866	420787.79	3735175.83	9.37E-09	4.28E-08	9.36E-11	5.23E-08	1.28E-09	5.86E-09	0.00E+00	7.14E-09	7.88E-10	2.69E-09	0.00E+00	3.48E-09
3867	420778.71	3735179.64	8.78E-09	4.01E-08	8.77E-11	4.90E-08	1.20E-09	5.49E-09	0.00E+00	6.69E-09	7.38E-10	2.52E-09	0.00E+00	3.26E-09
3868	420769.62	3735183.45	8.19E-09	3.75E-08	8.19E-11	4.57E-08	1.12E-09	5.12E-09	0.00E+00	6.24E-09	6.89E-10	2.35E-09	0.00E+00	3.04E-09
3869	420760.54	3735187.25	7.66E-09	3.50E-08	7.65E-11	4.27E-08	1.05E-09	4.79E-09	0.00E+00	5.84E-09	6.44E-10	2.20E-09	0.00E+00	2.84E-09
3870	420751.45	3735191.06	7.17E-09	3.28E-08	7.16E-11	4.00E-08	9.82E-10	4.48E-09	0.00E+00	5.46E-09	6.03E-10	2.06E-09	0.00E+00	2.66E-09
3871	421393.09	3734532.6	1.08E-08	4.92E-08	1.08E-10	6.01E-08	1.48E-09	6.73E-09	0.00E+00	8.21E-09	9.06E-10	3.09E-09	0.00E+00	4.00E-09
3872	421393.35	3734522.61	1.03E-08	4.73E-08	1.03E-10	5.78E-08	1.42E-09	6.47E-09	0.00E+00	7.89E-09	8.71E-10	2.97E-09	0.00E+00	3.84E-09
3873	421424.7	3734571.72	1.11E-08	5.06E-08	1.11E-10	6.18E-08	1.52E-09	6.92E-09	0.00E+00	8.44E-09	9.32E-10	3.18E-09	0.00E+00	4.11E-09
3874	421420.78	3734580.76	1.16E-08	5.30E-08	1.16E-10	6.47E-08	1.59E-09	7.25E-09	0.00E+00	8.83E-09	9.75E-10	3.33E-09	0.00E+00	4.30E-09
3875	421416.86	3734589.8	1.21E-08	5.55E-08	1.21E-10	6.78E-08	1.66E-09	7.59E-09	0.00E+00	9.25E-09	1.02E-09	3.49E-09	0.00E+00	4.51E-09
3876	421412.94	3734598.85	1.27E-08	5.82E-08	1.27E-10	7.10E-08	1.74E-09	7.95E-09	0.00E+00	9.70E-09	1.07E-09	3.66E-09	0.00E+00	4.73E-09
3877	421409.02	3734607.89	1.33E-08	6.09E-08	1.33E-10	7.44E-08	1.83E-09	8.33E-09	0.00E+00	1.02E-08	1.12E-09	3.83E-09	0.00E+00	4.95E-09
3878	421405.09	3734616.93	1.39E-08	6.37E-08	1.39E-10	7.77E-08	1.91E-09	8.71E-09	0.00E+00	1.06E-08	1.17E-09	4.00E-09	0.00E+00	5.17E-09
3879	421401.17	3734625.98	1.46E-08	6.65E-08	1.45E-10	8.12E-08	2.00E-09	9.10E-09	0.00E+00	1.11E-08	1.22E-09	4.18E-09	0.00E+00	5.41E-09
3880	421397.25	3734635.02	1.52E-08	6.95E-08	1.52E-10	8.49E-08	2.08E-09	9.51E-09	0.00E+00	1.16E-08	1.28E-09	4.37E-09	0.00E+00	5.65E-09
3881	421393.33	3734644.06	1.59E-08	7.26E-08	1.59E-10	8.86E-08	2.18E-09	9.93E-09	0.00E+00	1.21E-08	1.34E-09	4.56E-09	0.00E+00	5.90E-09
3882	421365.89	3734707.37	2.08E-08	9.49E-08	2.07E-10	1.16E-07	2.84E-09	1.30E-08	0.00E+00	1.58E-08	1.75E-09	5.96E-09	0.00E+00	7.71E-09
3883	421361.97	3734716.41	2.14E-08	9.80E-08	2.14E-10	1.20E-07	2.94E-09	1.34E-08	0.00E+00	1.63E-08	1.80E-09	6.16E-09	0.00E+00	7.96E-09
3884	421358.05	3734725.45	2.21E-08	1.01E-07	2.21E-10	1.23E-07	3.03E-09	1.38E-08	0.00E+00	1.68E-08	1.86E-09	6.35E-09	0.00E+00	8.21E-09
3885	421354.12	3734734.5	2.28E-08	1.04E-07	2.27E-10	1.27E-07	3.12E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.54E-09	0.00E+00	8.45E-09
3886	421350.2	3734743.54	2.34E-08	1.07E-07	2.34E-10	1.31E-07	3.21E-09	1.46E-08	0.00E+00	1.78E-08	1.97E-09	6.72E-09	0.00E+00	8.69E-09
3887	421346.28	3734752.58	2.40E-08	1.10E-07	2.40E-10	1.34E-07	3.29E-09	1.50E-08	0.00E+00	1.83E-08	2.02E-09	6.90E-09	0.00E+00	8.92E-09
3888	421342.36	3734761.63	2.44E-08	1.11E-07	2.43E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	7.00E-09	0.00E+00	9.05E-09
3889	421338.44	3734770.67	2.50E-08	1.14E-07	2.50E-10	1.40E-07	3.43E-09	1.56E-08	0.00E+00	1.91E-08	2.10E-09	7.18E-09	0.00E+00	9.29E-09
3890	421334.52	3734779.71	2.56E-08	1.17E-07	2.56E-10	1.43E-07	3.51E-09	1.60E-08	0.00E+00	1.95E-08	2.15E-09	7.36E-09	0.00E+00	9.51E-09
3891	421330.6	3734788.76	2.62E-08	1.20E-07	2.62E-10	1.46E-07	3.59E-09	1.64E-08	0.00E+00	2.00E-08	2.20E-09	7.53E-09	0.00E+00	9.73E-09
3892	421326.68	3734797.8	2.67E-08	1.22E-07	2.67E-10	1.49E-07	3.66E-09	1.67E-08	0.00E+00	2.04E-08	2.25E-09	7.68E-09	0.00E+00	9.93E-09
3893	421314.92	3734824.93	2.81E-08	1.29E-07	2.81E-10	1.57E-07	3.86E-09	1.76E-08	0.00E+00	2.14E-08	2.37E-09	8.08E-09	0.00E+00	1.05E-08
3894	421311	3734833.97	2.86E-08	1.31E-07	2.86E-10	1.59E-07	3.92E-09	1.79E-08	0.00E+00	2.18E-08	2.40E-09	8.21E-09	0.00E+00	1.06E-08
3895	421307.07	3734843.01	2.90E-08	1.32E-07	2.89E-10	1.62E-07	3.97E-09	1.81E-08	0.00E+00	2.21E-08	2.44E-09	8.32E-09	0.00E+00	1.08E-08
3896	421303.15	3734852.06	2.93E-08	1.34E-07	2.93E-10	1.64E-07	4.02E-09	1.83E-08	0.00E+00	2.23E-08	2.46E-09	8.42E-09	0.00E+00	1.09E-08

3897	421299.23	3734861.1	2.96E-08	1.35E-07	2.95E-10	1.65E-07	4.05E-09	1.85E-08	0.00E+00	2.25E-08	2.49E-09	8.49E-09	0.00E+00	1.10E-08
3898	421295.31	3734870.14	2.98E-08	1.36E-07	2.97E-10	1.66E-07	4.08E-09	1.86E-08	0.00E+00	2.27E-08	2.50E-09	8.55E-09	0.00E+00	1.11E-08
3899	421291.39	3734879.19	2.99E-08	1.37E-07	2.99E-10	1.67E-07	4.10E-09	1.87E-08	0.00E+00	2.28E-08	2.52E-09	8.60E-09	0.00E+00	1.11E-08
3900	421287.47	3734888.23	3.02E-08	1.38E-07	3.02E-10	1.68E-07	4.14E-09	1.89E-08	0.00E+00	2.30E-08	2.54E-09	8.67E-09	0.00E+00	1.12E-08
3901	421283.55	3734897.27	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.73E-09	0.00E+00	1.13E-08
3902	421279.63	3734906.32	3.06E-08	1.40E-07	3.05E-10	1.71E-07	4.19E-09	1.91E-08	0.00E+00	2.33E-08	2.57E-09	8.78E-09	0.00E+00	1.14E-08
3903	421275.71	3734915.36	3.07E-08	1.40E-07	3.07E-10	1.71E-07	4.21E-09	1.92E-08	0.00E+00	2.34E-08	2.58E-09	8.83E-09	0.00E+00	1.14E-08
3904	421271.79	3734924.4	3.09E-08	1.41E-07	3.08E-10	1.72E-07	4.23E-09	1.93E-08	0.00E+00	2.35E-08	2.60E-09	8.87E-09	0.00E+00	1.15E-08
3905	421267.87	3734933.45	3.10E-08	1.42E-07	3.09E-10	1.73E-07	4.24E-09	1.94E-08	0.00E+00	2.36E-08	2.60E-09	8.90E-09	0.00E+00	1.15E-08
3906	421263.95	3734942.49	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.36E-08	2.61E-09	8.91E-09	0.00E+00	1.15E-08
3907	421260.03	3734951.53	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.36E-08	2.61E-09	8.90E-09	0.00E+00	1.15E-08
3908	421256.1	3734960.58	3.10E-08	1.42E-07	3.09E-10	1.73E-07	4.24E-09	1.94E-08	0.00E+00	2.36E-08	2.60E-09	8.89E-09	0.00E+00	1.15E-08
3909	421252.18	3734969.62	3.09E-08	1.41E-07	3.09E-10	1.73E-07	4.24E-09	1.93E-08	0.00E+00	2.36E-08	2.60E-09	8.88E-09	0.00E+00	1.15E-08
3910	421248.26	3734978.66	3.10E-08	1.42E-07	3.09E-10	1.73E-07	4.24E-09	1.93E-08	0.00E+00	2.36E-08	2.60E-09	8.89E-09	0.00E+00	1.15E-08
3911	421244.34	3734987.71	3.10E-08	1.42E-07	3.09E-10	1.73E-07	4.24E-09	1.94E-08	0.00E+00	2.36E-08	2.60E-09	8.90E-09	0.00E+00	1.15E-08
3912	421240.42	3734996.75	3.09E-08	1.41E-07	3.09E-10	1.73E-07	4.24E-09	1.93E-08	0.00E+00	2.36E-08	2.60E-09	8.89E-09	0.00E+00	1.15E-08
3913	421236.5	3735005.79	3.09E-08	1.41E-07	3.09E-10	1.72E-07	4.23E-09	1.93E-08	0.00E+00	2.35E-08	2.60E-09	8.87E-09	0.00E+00	1.15E-08
3914	421232.58	3735014.84	3.08E-08	1.41E-07	3.07E-10	1.72E-07	4.22E-09	1.92E-08	0.00E+00	2.34E-08	2.59E-09	8.84E-09	0.00E+00	1.14E-08
3915	421228.66	3735023.88	3.06E-08	1.40E-07	3.06E-10	1.71E-07	4.20E-09	1.91E-08	0.00E+00	2.33E-08	2.58E-09	8.80E-09	0.00E+00	1.14E-08
3916	421215.65	3735036.73	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.37E-08	2.61E-09	8.92E-09	0.00E+00	1.15E-08
3917	421206.56	3735040.54	3.15E-08	1.44E-07	3.15E-10	1.76E-07	4.32E-09	1.97E-08	0.00E+00	2.40E-08	2.65E-09	9.06E-09	0.00E+00	1.17E-08
3918	421197.47	3735044.35	3.20E-08	1.46E-07	3.19E-10	1.78E-07	4.38E-09	2.00E-08	0.00E+00	2.44E-08	2.69E-09	9.18E-09	0.00E+00	1.19E-08
3919	421188.38	3735048.16	3.24E-08	1.48E-07	3.23E-10	1.81E-07	4.43E-09	2.02E-08	0.00E+00	2.47E-08	2.72E-09	9.30E-09	0.00E+00	1.20E-08
3920	421179.29	3735051.97	3.27E-08	1.50E-07	3.27E-10	1.83E-07	4.48E-09	2.05E-08	0.00E+00	2.49E-08	2.75E-09	9.40E-09	0.00E+00	1.22E-08
3921	421170.2	3735055.78	3.30E-08	1.51E-07	3.30E-10	1.84E-07	4.53E-09	2.07E-08	0.00E+00	2.52E-08	2.78E-09	9.49E-09	0.00E+00	1.23E-08
3922	421088.38	3735090.08	3.34E-08	1.53E-07	3.34E-10	1.86E-07	4.58E-09	2.09E-08	0.00E+00	2.54E-08	2.81E-09	9.59E-09	0.00E+00	1.24E-08
3923	421079.29	3735093.89	3.31E-08	1.51E-07	3.31E-10	1.85E-07	4.54E-09	2.07E-08	0.00E+00	2.52E-08	2.79E-09	9.51E-09	0.00E+00	1.23E-08
3924	421070.2	3735097.7	3.28E-08	1.50E-07	3.28E-10	1.83E-07	4.50E-09	2.05E-08	0.00E+00	2.50E-08	2.76E-09	9.43E-09	0.00E+00	1.22E-08
3925	421061.11	3735101.51	3.25E-08	1.48E-07	3.24E-10	1.81E-07	4.45E-09	2.03E-08	0.00E+00	2.47E-08	2.73E-09	9.33E-09	0.00E+00	1.21E-08
3926	421052.02	3735105.32	3.20E-08	1.46E-07	3.20E-10	1.79E-07	4.39E-09	2.00E-08	0.00E+00	2.44E-08	2.70E-09	9.21E-09	0.00E+00	1.19E-08
3927	421042.93	3735109.13	3.16E-08	1.44E-07	3.16E-10	1.76E-07	4.33E-09	1.97E-08	0.00E+00	2.41E-08	2.66E-09	9.07E-09	0.00E+00	1.17E-08
3928	421033.84	3735112.94	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.26E-09	1.94E-08	0.00E+00	2.37E-08	2.61E-09	8.92E-09	0.00E+00	1.15E-08
3929	421024.75	3735116.75	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.75E-09	0.00E+00	1.13E-08
3930	421015.66	3735120.56	2.98E-08	1.36E-07	2.97E-10	1.66E-07	4.08E-09	1.86E-08	0.00E+00	2.27E-08	2.50E-09	8.55E-09	0.00E+00	1.11E-08
3931	421006.57	3735124.37	2.90E-08	1.32E-07	2.89E-10	1.62E-07	3.97E-09	1.81E-08	0.00E+00	2.21E-08	2.44E-09	8.32E-09	0.00E+00	1.08E-08
3932	420997.48	3735128.18	2.81E-08	1.28E-07	2.81E-10	1.57E-07	3.85E-09	1.76E-08	0.00E+00	2.14E-08	2.36E-09	8.07E-09	0.00E+00	1.04E-08
3933	420988.39	3735131.99	2.72E-08	1.24E-07	2.72E-10	1.52E-07	3.73E-09	1.70E-08	0.00E+00	2.07E-08	2.29E-09	7.82E-09	0.00E+00	1.01E-08
3934	420979.3	3735135.8	2.63E-08	1.20E-07	2.63E-10	1.47E-07	3.60E-09	1.64E-08	0.00E+00	2.00E-08	2.21E-09	7.56E-09	0.00E+00	9.77E-09
3935	420970.21	3735139.61	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.48E-09	1.59E-08	0.00E+00	1.93E-08	2.14E-09	7.29E-09	0.00E+00	9.43E-09
3936	420961.12	3735143.42	2.45E-08	1.12E-07	2.44E-10	1.37E-07	3.35E-09	1.53E-08	0.00E+00	1.86E-08	2.06E-09	7.03E-09	0.00E+00	9.08E-09
3937	420952.03	3735147.23	2.35E-08	1.07E-07	2.35E-10	1.31E-07	3.22E-09	1.47E-08	0.00E+00	1.79E-08	1.98E-09	6.75E-09	0.00E+00	8.73E-09
3938	420942.94	3735151.04	2.25E-08	1.03E-07	2.25E-10	1.26E-07	3.09E-09	1.41E-08	0.00E+00	1.72E-08	1.89E-09	6.47E-09	0.00E+00	8.36E-09
3939	420933.85	3735154.85	2.15E-08	9.83E-08	2.15E-10	1.20E-07	2.95E-09	1.34E-08	0.00E+00	1.64E-08	1.81E-09	6.18E-09	0.00E+00	7.99E-09
3940	420924.76	3735158.66	2.05E-08	9.36E-08	2.05E-10	1.14E-07	2.81E-09	1.28E-08	0.00E+00	1.56E-08	1.72E-09	5.88E-09	0.00E+00	7.60E-09
3941	420915.67	3735162.47	1.94E-08	8.89E-08	1.94E-10	1.09E-07	2.66E-09	1.22E-08	0.00E+00	1.48E-08	1.64E-09	5.59E-09	0.00E+00	7.22E-09
3942	420906.58	3735166.28	1.84E-08	8.43E-08	1.84E-10	1.03E-07	2.53E-09	1.15E-08	0.00E+00	1.40E-08	1.55E-09	5.30E-09	0.00E+00	6.85E-09
3943	420897.48	3735170.09	1.74E-08	7.96E-08	1.74E-10	9.72E-08	2.39E-09	1.09E-08	0.00E+00	1.33E-08	1.47E-09	5.00E-09	0.00E+00	6.47E-09
3944	420888.39	3735173.9	1.64E-08	7.48E-08	1.64E-10	9.13E-08	2.24E-09	1.02E-08	0.00E+00	1.25E-08	1.38E-09	4.70E-09	0.00E+00	6.08E-09
3945	420833.85	3735196.76	1.11E-08	5.06E-08	1.11E-10	6.17E-08	1.52E-09	6.91E-09	0.00E+00	8.43E-09	9.31E-10	3.18E-09	0.00E+00	4.11E-09
3946	420824.76	3735200.57	1.03E-08	4.73E-08	1.03E-10	5.77E-08	1.42E-09	6.46E-09	0.00E+00	7.88E-09	8.70E-10	2.97E-09	0.00E+00	3.84E-09
3947	420815.67	3735204.38	9.66E-09	4.42E-08	9.65E-11	5.39E-08	1.32E-09	6.04E-09	0.00E+00	7.36E-09	8.13E-10	2.78E-09	0.00E+00	3.59E-09
3948	420806.58	3735208.19	9.03E-09	4.13E-08	9.02E-11	5.04E-08	1.24E-09	5.64E-09	0.00E+00	6.88E-09	7.60E-10	2.59E-09	0.00E+00	3.35E-09
3949	420797.49	3735212	8.45E-09	3.86E-08	8.45E-11	4.72E-08	1.16E-09	5.28E-09	0.00E+00	6.44E-09	7.11E-10	2.43E-09	0.00E+00	3.14E-09
3950	420788.4	3735215.82	7.91E-09	3.62E-08	7.91E-11	4.42E-08	1.08E-09	4.95E-09	0.00E+00	6.03E-09	6.66E-10	2.27E-09	0.00E+00	2.94E-09
3951	420779.31	3735219.63	7.41E-09	3.39E-08	7.41E-11	4.14E-08	1.02E-09	4.63E-09	0.00E+00	5.65E-09	6.24E-10	2.13E-09	0.00E+00	2.75E-09
3952	420770.22	3735223.44	6.96E-09	3.18E-08	6.95E-11	3.88E-08	9.54E-10	4.35E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
3953	420761.13	3735227.25	6.53E-09	2.99E-08	6.53E-11	3.64E-08	8.95E-10	4.08E-09	0.00E+00	4.98E-09	5.49E-10	1.88E-09	0.00E+00	2.43E-09
3954	420752.04	3735231.06	6.13E-09	2.80E-08	6.12E-11	3.42E-08	8.40E-10	3.83E-09	0.00E+00	4.67E-09	5.16E-10	1.76E-09	0.00E+00	2.28E-09
3955	421433.07	3734533.66	9.31E-09	4.26E-08	9.30E-11	5.20E-08	1.28E-09	5.82E-09	0.00E+00	7.09E-09	7.83E-10	2.67E-09	0.00E+00	3.46E-09
3956	421433.34	3734523.68	8.92E-09	4.08E-08	8.91E-11	4.98E-08	1.22E-09	5.57E-09	0.00E+00	6.80E-09	7.50E-10	2.56E-09	0.00E+00	3.31E-09
3957	420743.32	3734467.82	4.17E-06	1.91E-05	4.17E-08	2.33E-05	5.72E-07	2.61E-06	0.00E+00	3.18E-06	3.51E-07	1.20E-06	0.00E+00	1.55E-06
3958	420743.26	3734458.54	3.51E-06	1.61E-05	3.51E-08	1.96E-05	4.81E-07	2.20E-06	0.00E+00	2.68E-06	2.95E-07	1.01E-06	0.00E+00	1.30E-06
3959	420743.19	3734449.27	2.70E-06	1.23E-05	2.69E-08	1.50E-05	3.69E-07	1.69E-06	0.00E+00	2.05E-06	2.27E-07	7.74E-07	0.00E+00	1.00E-06
3960	420743.12	3734439.99	1.86E-06	8.50E-06	1.86E-08	1.04E-05	2.55E-07	1.16E-06	0.00E+00	1.42E-06	1.56E-07	5.34E-07	0.00E+00	6.91E-07
3961	420743.06	3734430.72	1.17E-06	5.35E-06	1.17E-08	6.53E-06	1.60E-07	7.31E-07	0.00E+00	8.91E-07	9.84E-08	3.36E-07	0.00E+00	4.34E-07
3962	420742.99	3734421.44	7.38E-07	3.37E-06	7.37E-09	4.12E-06	1.01E-07	4.61E-07	0.00E+00	5.62E-07	6.21E-08	2.12E-07	0.00E+00	2.74E-07
3963	420742.92	3734412.17	4.97E-07	2.27E-06	4.96E-09	2.77E-06	6.81E-08	3.10E-07	0.00E+00	3.79E-07	4.18E-08	1.43E-07	0.00E+00	1.84E-07
3964	420742.86	3734402.89	3.55E-07	1.62E-06	3.55E-09	1.98E-06	4.86E-08	2.22E-07	0.00E+00	2.70E-07	2.98E-08	1.02E-07	0.00E+00	1.32E-07
3965	420753.32	3734467.75	2.83E-06	1.30E-05	2.83E-08	1.58E-05	3.89E-07	1.77E-06	0.00E+00	2.16E-06	2.38E-07	8.14E-07	0.00E+00	1.05E-06
3966	420753.26	3734458.47	2.35E-06	1.07E-05	2.35E-08	1.31E-05	3.22E-07	1.47E-06	0.00E+00	1.79E-06	1.98E-07	6.75E-07	0.00E+00	8.73E-07
3967	420753.19	3734449.2	1.81E-06	8.29E-06	1.81E-08	1.01E-05	2.49E-07	1.13E-06	0.00E+00	1.38E-06	1.53E-07	5.21E-07	0.00E+00	6.74E-07
3968	420753.12	3734439.92	1.30E-06	5.94E-06	1.30E-08	7.25E-06	1.78E-07	8.13E-07	0.00E+00	9.91E-07	1.09E-07	3.73E-07	0.00E+00	4.83E-07
3969	420753.06	3734430.65	8.81E-07	4.03E-06	8.81E-09	4.92E-06	1.21E-07	5.51E-07	0.00E+00	6.72E-07	7.41E-08	2.53E-07	0.00E+00	3.27E-07
3970	420752.99	3734421.37	5.98E-07	2.73E-06	5.98E-09	3.34E-06	8.20E-08	3.74E-07	0.00E+00	4.56E-07	5.03E-08	1.72E-07	0.00E+00	2.22E-07
3971	420752.92	3734412.1	4.22E-07	1.93E-06	4.22E-09	2.36E-06	5.78E-08	2.64E-07	0.00E+00	3.22E-07	3.55E-08	1.21E-07	0.00E+00	1.57E-07

3972	420752.86	3734402.82	3.12E-07	1.43E-06	3.12E-09	1.74E-06	4.27E-08	1.95E-07	0.00E+00	2.38E-07	2.62E-08	8.96E-08	0.00E+00	1.16E-07
3973	420752.79	3734393.55	2.38E-07	1.09E-06	2.38E-09	1.33E-06	3.26E-08	1.49E-07	0.00E+00	1.81E-07	2.00E-08	6.83E-08	0.00E+00	8.84E-08
3974	420763.12	3734439.85	9.57E-07	4.37E-06	9.56E-09	5.34E-06	1.31E-07	5.98E-07	0.00E+00	7.29E-07	8.05E-08	2.75E-07	0.00E+00	3.55E-07
3975	420763.06	3734430.57	6.85E-07	3.13E-06	6.85E-09	3.82E-06	9.39E-08	4.28E-07	0.00E+00	5.22E-07	5.76E-08	1.97E-07	0.00E+00	2.54E-07
3976	420762.99	3734421.3	4.91E-07	2.24E-06	4.90E-09	2.74E-06	6.72E-08	3.07E-07	0.00E+00	3.74E-07	4.13E-08	1.41E-07	0.00E+00	1.82E-07
3977	420762.92	3734412.02	3.60E-07	1.64E-06	3.60E-09	2.01E-06	4.93E-08	2.25E-07	0.00E+00	2.74E-07	3.03E-08	1.03E-07	0.00E+00	1.34E-07
3978	420762.86	3734402.75	2.73E-07	1.25E-06	2.73E-09	1.53E-06	3.75E-08	1.71E-07	0.00E+00	2.08E-07	2.30E-08	7.86E-08	0.00E+00	1.02E-07
3979	420762.79	3734393.47	2.14E-07	9.78E-07	2.14E-09	1.19E-06	2.93E-08	1.34E-07	0.00E+00	1.63E-07	1.80E-08	6.15E-08	0.00E+00	7.94E-08
3980	420772.79	3734393.4	1.91E-07	8.75E-07	1.91E-09	1.07E-06	2.62E-08	1.20E-07	0.00E+00	1.46E-07	1.61E-08	5.50E-08	0.00E+00	7.11E-08
3981	420793.52	3734495.28	1.27E-06	5.80E-06	1.27E-08	7.08E-06	1.74E-07	7.93E-07	0.00E+00	9.67E-07	1.07E-07	3.64E-07	0.00E+00	4.71E-07
3982	420793.46	3734486.01	1.13E-06	5.16E-06	1.13E-08	6.30E-06	1.55E-07	7.06E-07	0.00E+00	8.61E-07	9.50E-08	3.25E-07	0.00E+00	4.20E-07
3983	420803.52	3734495.21	1.00E-06	4.58E-06	1.00E-08	5.59E-06	1.37E-07	6.26E-07	0.00E+00	7.63E-07	8.42E-08	2.88E-07	0.00E+00	3.72E-07
3984	420803.45	3734485.94	8.87E-07	4.06E-06	8.87E-09	4.95E-06	1.22E-07	5.55E-07	0.00E+00	6.76E-07	7.47E-08	2.55E-07	0.00E+00	3.30E-07
3985	420803.39	3734476.66	7.80E-07	3.57E-06	7.80E-09	4.35E-06	1.07E-07	4.88E-07	0.00E+00	5.95E-07	6.56E-08	2.24E-07	0.00E+00	2.90E-07
3986	420803.32	3734467.39	6.69E-07	3.06E-06	6.68E-09	3.73E-06	9.16E-08	4.18E-07	0.00E+00	5.10E-07	5.62E-08	1.92E-07	0.00E+00	2.48E-07
3987	420803.25	3734458.11	5.62E-07	2.57E-06	5.62E-09	3.14E-06	7.70E-08	3.51E-07	0.00E+00	4.28E-07	4.73E-08	1.61E-07	0.00E+00	2.09E-07
3988	420803.19	3734448.84	4.64E-07	2.12E-06	4.64E-09	2.59E-06	6.36E-08	2.90E-07	0.00E+00	3.54E-07	3.90E-08	1.33E-07	0.00E+00	1.72E-07
3989	420803.12	3734439.56	3.77E-07	1.73E-06	3.77E-09	2.11E-06	5.17E-08	2.36E-07	0.00E+00	2.88E-07	3.18E-08	1.08E-07	0.00E+00	1.40E-07
3990	420803.05	3734430.29	3.04E-07	1.39E-06	3.04E-09	1.70E-06	4.17E-08	1.90E-07	0.00E+00	2.32E-07	2.56E-08	8.75E-08	0.00E+00	1.13E-07
3991	420802.99	3734421.01	2.45E-07	1.12E-06	2.45E-09	1.37E-06	3.36E-08	1.53E-07	0.00E+00	1.87E-07	2.06E-08	7.05E-08	0.00E+00	9.12E-08
3992	420802.92	3734411.74	2.00E-07	9.12E-07	1.99E-09	1.11E-06	2.74E-08	1.25E-07	0.00E+00	1.52E-07	1.68E-08	5.73E-08	0.00E+00	7.41E-08
3993	420813.52	3734495.14	8.00E-07	3.66E-06	7.99E-09	4.46E-06	1.10E-07	5.00E-07	0.00E+00	6.10E-07	6.73E-08	2.30E-07	0.00E+00	2.97E-07
3994	420813.45	3734485.86	7.10E-07	3.25E-06	7.10E-09	3.96E-06	9.73E-08	4.44E-07	0.00E+00	5.41E-07	5.97E-08	2.04E-07	0.00E+00	2.64E-07
3995	420813.39	3734476.59	6.27E-07	2.87E-06	6.26E-09	3.50E-06	8.59E-08	3.92E-07	0.00E+00	4.78E-07	5.27E-08	1.80E-07	0.00E+00	2.33E-07
3996	420813.32	3734467.31	5.41E-07	2.47E-06	5.41E-09	3.02E-06	7.42E-08	3.38E-07	0.00E+00	4.13E-07	4.55E-08	1.56E-07	0.00E+00	2.01E-07
3997	420813.25	3734458.04	4.58E-07	2.09E-06	4.58E-09	2.56E-06	6.28E-08	2.86E-07	0.00E+00	3.49E-07	3.85E-08	1.32E-07	0.00E+00	1.70E-07
3998	420813.19	3734448.76	3.82E-07	1.75E-06	3.82E-09	2.13E-06	5.24E-08	2.39E-07	0.00E+00	2.91E-07	3.22E-08	1.10E-07	0.00E+00	1.42E-07
3999	420813.12	3734439.49	3.16E-07	1.44E-06	3.15E-09	1.76E-06	4.33E-08	1.97E-07	0.00E+00	2.41E-07	2.65E-08	9.07E-08	0.00E+00	1.17E-07
4000	420813.05	3734430.21	2.59E-07	1.18E-06	2.59E-09	1.44E-06	3.55E-08	1.62E-07	0.00E+00	1.97E-07	2.18E-08	7.43E-08	0.00E+00	9.61E-08
4001	420812.99	3734420.94	2.12E-07	9.70E-07	2.12E-09	1.18E-06	2.91E-08	1.33E-07	0.00E+00	1.62E-07	1.79E-08	6.10E-08	0.00E+00	7.88E-08
4002	420812.92	3734411.66	1.75E-07	8.01E-07	1.75E-09	9.78E-07	2.40E-08	1.10E-07	0.00E+00	1.34E-07	1.47E-08	5.04E-08	0.00E+00	6.51E-08
4003	420812.85	3734402.39	1.46E-07	6.70E-07	1.46E-09	8.18E-07	2.01E-08	9.16E-08	0.00E+00	1.12E-07	1.23E-08	4.21E-08	0.00E+00	5.44E-08
4004	420823.52	3734495.07	6.54E-07	2.99E-06	6.54E-09	3.65E-06	8.97E-08	4.09E-07	0.00E+00	4.99E-07	5.50E-08	1.88E-07	0.00E+00	2.43E-07
4005	420823.45	3734485.79	5.81E-07	2.65E-06	5.80E-09	3.24E-06	7.96E-08	3.63E-07	0.00E+00	4.43E-07	4.88E-08	1.67E-07	0.00E+00	2.16E-07
4006	420823.39	3734476.52	5.11E-07	2.34E-06	5.11E-09	2.86E-06	7.01E-08	3.20E-07	0.00E+00	3.90E-07	4.30E-08	1.47E-07	0.00E+00	1.90E-07
4007	420823.32	3734467.24	4.45E-07	2.03E-06	4.44E-09	2.48E-06	6.09E-08	2.78E-07	0.00E+00	3.39E-07	3.74E-08	1.28E-07	0.00E+00	1.65E-07
4008	420823.25	3734457.97	3.80E-07	1.74E-06	3.80E-09	2.12E-06	5.21E-08	2.38E-07	0.00E+00	2.90E-07	3.20E-08	1.09E-07	0.00E+00	1.41E-07
4009	420823.19	3734448.69	3.20E-07	1.46E-06	3.20E-09	1.79E-06	4.39E-08	2.00E-07	0.00E+00	2.44E-07	2.69E-08	9.20E-08	0.00E+00	1.19E-07
4010	420823.12	3734439.42	2.68E-07	1.22E-06	2.67E-09	1.49E-06	3.67E-08	1.67E-07	0.00E+00	2.04E-07	2.25E-08	7.69E-08	0.00E+00	9.94E-08
4011	420823.05	3734430.14	2.23E-07	1.02E-06	2.22E-09	1.24E-06	3.05E-08	1.39E-07	0.00E+00	1.70E-07	1.87E-08	6.39E-08	0.00E+00	8.27E-08
4012	420822.99	3734420.87	1.85E-07	8.46E-07	1.85E-09	1.03E-06	2.54E-08	1.16E-07	0.00E+00	1.41E-07	1.56E-08	5.32E-08	0.00E+00	6.88E-08
4013	420822.92	3734411.59	1.55E-07	7.08E-07	1.55E-09	8.65E-07	2.12E-08	9.69E-08	0.00E+00	1.18E-07	1.30E-08	4.45E-08	0.00E+00	5.75E-08
4014	420822.85	3734402.32	1.31E-07	5.99E-07	1.31E-09	7.31E-07	1.80E-08	8.19E-08	0.00E+00	9.98E-08	1.10E-08	3.76E-08	0.00E+00	4.87E-08
4015	420833.52	3734495	5.42E-07	2.48E-06	5.42E-09	3.03E-06	7.44E-08	3.39E-07	0.00E+00	4.13E-07	4.56E-08	1.56E-07	0.00E+00	2.02E-07
4016	420833.45	3734485.72	4.81E-07	2.20E-06	4.81E-09	2.69E-06	6.60E-08	3.01E-07	0.00E+00	3.67E-07	4.05E-08	1.38E-07	0.00E+00	1.79E-07
4017	420833.39	3734476.45	4.24E-07	1.94E-06	4.24E-09	2.37E-06	5.81E-08	2.65E-07	0.00E+00	3.23E-07	3.57E-08	1.22E-07	0.00E+00	1.57E-07
4018	420833.32	3734467.17	3.68E-07	1.68E-06	3.68E-09	2.06E-06	5.05E-08	2.30E-07	0.00E+00	2.81E-07	3.10E-08	1.06E-07	0.00E+00	1.37E-07
4019	420833.25	3734457.9	3.18E-07	1.45E-06	3.18E-09	1.77E-06	4.36E-08	1.99E-07	0.00E+00	2.42E-07	2.68E-08	9.14E-08	0.00E+00	1.18E-07
4020	420833.19	3734448.62	2.72E-07	1.24E-06	2.72E-09	1.52E-06	3.73E-08	1.70E-07	0.00E+00	2.07E-07	2.29E-08	7.81E-08	0.00E+00	1.01E-07
4021	420833.12	3734439.35	2.30E-07	1.05E-06	2.30E-09	1.28E-06	3.15E-08	1.44E-07	0.00E+00	1.75E-07	1.93E-08	6.60E-08	0.00E+00	8.53E-08
4022	420833.05	3734430.07	1.93E-07	8.84E-07	1.93E-09	1.08E-06	2.65E-08	1.21E-07	0.00E+00	1.47E-07	1.63E-08	5.56E-08	0.00E+00	7.18E-08
4023	420832.99	3734420.8	1.63E-07	7.44E-07	1.63E-09	9.08E-07	2.23E-08	1.02E-07	0.00E+00	1.24E-07	1.37E-08	4.68E-08	0.00E+00	6.04E-08
4024	420832.92	3734411.52	1.38E-07	6.30E-07	1.38E-09	7.69E-07	1.89E-08	8.61E-08	0.00E+00	1.05E-07	1.16E-08	3.96E-08	0.00E+00	5.12E-08
4025	420893.52	3734494.56	2.20E-07	1.01E-06	2.20E-09	1.23E-06	3.02E-08	1.38E-07	0.00E+00	1.68E-07	1.85E-08	6.33E-08	0.00E+00	8.18E-08
4026	420893.45	3734485.29	1.99E-07	9.11E-07	1.99E-09	1.11E-06	2.73E-08	1.25E-07	0.00E+00	1.52E-07	1.68E-08	5.73E-08	0.00E+00	7.40E-08
4027	420893.39	3734476.01	1.79E-07	8.17E-07	1.79E-09	9.97E-07	2.45E-08	1.12E-07	0.00E+00	1.36E-07	1.50E-08	5.13E-08	0.00E+00	6.63E-08
4028	420893.32	3734466.74	1.59E-07	7.27E-07	1.59E-09	8.88E-07	2.18E-08	9.94E-08	0.00E+00	1.21E-07	1.34E-08	4.57E-08	0.00E+00	5.91E-08
4029	420893.12	3734438.91	1.09E-07	5.00E-07	1.09E-09	6.10E-07	1.50E-08	6.83E-08	0.00E+00	8.33E-08	9.19E-09	3.14E-08	0.00E+00	4.06E-08
4030	420893.05	3734429.64	9.62E-08	4.40E-07	9.61E-10	5.37E-07	1.32E-08	6.01E-08	0.00E+00	7.33E-08	8.09E-09	2.76E-08	0.00E+00	3.57E-08
4031	420892.99	3734420.36	8.49E-08	3.88E-07	8.49E-10	4.74E-07	1.16E-08	5.31E-08	0.00E+00	6.47E-08	7.14E-09	2.44E-08	0.00E+00	3.15E-08
4032	420892.92	3734411.09	7.52E-08	3.44E-07	7.52E-10	4.20E-07	1.03E-08	4.70E-08	0.00E+00	5.73E-08	6.33E-09	2.16E-08	0.00E+00	2.79E-08
4033	420892.85	3734401.81	6.70E-08	3.06E-07	6.69E-10	3.74E-07	9.18E-09	4.19E-08	0.00E+00	5.11E-08	5.63E-09	1.92E-08	0.00E+00	2.49E-08
4034	420892.79	3734392.54	6.00E-08	2.74E-07	5.99E-10	3.35E-07	8.22E-09	3.75E-08	0.00E+00	4.57E-08	5.05E-09	1.72E-08	0.00E+00	2.23E-08
4035	420913.52	3734494.42	1.72E-07	7.86E-07	1.72E-09	9.60E-07	2.36E-08	1.08E-07	0.00E+00	1.31E-07	1.45E-08	4.94E-08	0.00E+00	6.39E-08
4036	420913.45	3734485.15	1.56E-07	7.15E-07	1.56E-09	8.73E-07	2.14E-08	9.77E-08	0.00E+00	1.19E-07	1.32E-08	4.49E-08	0.00E+00	5.81E-08
4037	420913.39	3734475.87	1.41E-07	6.45E-07	1.41E-09	7.87E-07	1.93E-08	8.81E-08	0.00E+00	1.07E-07	1.19E-08	4.05E-08	0.00E+00	5.24E-08
4038	420913.32	3734466.6	1.26E-07	5.78E-07	1.26E-09	7.06E-07	1.73E-08	7.91E-08	0.00E+00	9.64E-08	1.06E-08	3.63E-08	0.00E+00	4.70E-08
4039	420913.12	3734438.77	8.93E-08	4.08E-07	8.93E-10	4.99E-07	1.22E-08	5.59E-08	0.00E+00	6.81E-08	7.52E-09	2.57E-08	0.00E+00	3.32E-08
4040	420913.05	3734429.5	7.94E-08	3.63E-07	7.94E-10	4.43E-07	1.09E-08	4.97E-08	0.00E+00	6.05E-08	6.68E-09	2.28E-08	0.00E+00	2.95E-08
4041	420912.99	3734420.22	7.08E-08	3.24E-07	7.08E-10	3.95E-07	9.71E-09	4.43E-08	0.00E+00	5.40E-08	5.96E-09	2.04E-08	0.00E+00	2.63E-08
4042	420912.92	3734410.95	6.34E-08	2.90E-07	6.33E-10	3.54E-07	8.68E-09	3.96E-08	0.00E+00	4.83E-08	5.33E-09	1.82E-08	0.00E+00	2.35E-08
4043	420912.85	3734401.67	5.69E-08	2.60E-07	5.69E-10	3.18E-07	7.80E-09	3.56E-08	0.00E+00	4.34E-08	4.79E-09	1.63E-08	0.00E+00	2.11E-08
4044	420912.79	3734392.4	5.14E-08	2.35E-07	5.13E-10	2.87E-07	7.04E-09	3.21E-08	0.00E+00	3.91E-08	4.32E-09	1.48E-08	0.00E+00	1.91E-08
4045	420933.52	3734494.28	1.37E-07	6.27E-07	1.37E-09	7.66E-07	1.88E-08	8.58E-08	0.00E+00	1.05E-07	1.15E-08	3.94E-08	0.00E+00	5.10E-08
4046	420933.45	3734485	1.25E-07	5.72E-07	1.25E-09	6.98E-07	1.72E-08	7.82E-08	0.00E+00	9.54E-08	1.05E-08	3.60E-08	0.00E+00	4.65E-08

4047	420933.38	3734475.73	1.13E-07	5.19E-07	1.13E-09	6.34E-07	1.56E-08	7.10E-08	0.00E+00	8.65E-08	9.55E-09	3.26E-08	0.00E+00	4.22E-08
4048	420933.32	3734466.45	1.02E-07	4.68E-07	1.02E-09	5.72E-07	1.40E-08	6.41E-08	0.00E+00	7.81E-08	8.62E-09	2.94E-08	0.00E+00	3.81E-08
4049	420933.12	3734438.63	7.42E-08	3.39E-07	7.41E-10	4.14E-07	1.02E-08	4.64E-08	0.00E+00	5.66E-08	6.24E-09	2.13E-08	0.00E+00	2.76E-08
4050	420933.05	3734429.35	6.65E-08	3.04E-07	6.65E-10	3.71E-07	9.12E-09	4.16E-08	0.00E+00	5.07E-08	5.60E-09	1.91E-08	0.00E+00	2.47E-08
4051	420932.98	3734420.08	5.98E-08	2.74E-07	5.98E-10	3.34E-07	8.20E-09	3.74E-08	0.00E+00	4.56E-08	5.03E-09	1.72E-08	0.00E+00	2.22E-08
4052	420932.92	3734410.8	5.39E-08	2.47E-07	5.39E-10	3.01E-07	7.39E-09	3.37E-08	0.00E+00	4.11E-08	4.54E-09	1.55E-08	0.00E+00	2.00E-08
4053	420932.85	3734401.53	4.88E-08	2.23E-07	4.88E-10	2.72E-07	6.69E-09	3.05E-08	0.00E+00	3.72E-08	4.10E-09	1.40E-08	0.00E+00	1.81E-08
4054	420932.78	3734392.25	4.43E-08	2.03E-07	4.43E-10	2.47E-07	6.08E-09	2.77E-08	0.00E+00	3.38E-08	3.73E-09	1.27E-08	0.00E+00	1.65E-08
4055	420953.52	3734494.13	1.12E-07	5.10E-07	1.12E-09	6.23E-07	1.53E-08	6.98E-08	0.00E+00	8.50E-08	9.39E-09	3.21E-08	0.00E+00	4.14E-08
4056	420953.45	3734484.86	1.02E-07	4.67E-07	1.02E-09	5.70E-07	1.40E-08	6.39E-08	0.00E+00	7.79E-08	8.60E-09	2.94E-08	0.00E+00	3.80E-08
4057	420953.38	3734475.58	9.31E-08	4.26E-07	9.31E-10	5.20E-07	1.28E-08	5.82E-08	0.00E+00	7.10E-08	7.83E-09	2.68E-08	0.00E+00	3.46E-08
4058	420953.32	3734466.31	8.46E-08	3.87E-07	8.45E-10	4.72E-07	1.16E-08	5.29E-08	0.00E+00	6.45E-08	7.11E-09	2.43E-08	0.00E+00	3.14E-08
4059	420953.12	3734438.48	6.25E-08	2.86E-07	6.25E-10	3.49E-07	8.57E-09	3.91E-08	0.00E+00	4.76E-08	5.26E-09	1.80E-08	0.00E+00	2.32E-08
4060	420953.05	3734429.21	5.64E-08	2.58E-07	5.64E-10	3.15E-07	7.74E-09	3.53E-08	0.00E+00	4.30E-08	4.75E-09	1.62E-08	0.00E+00	2.10E-08
4061	420952.98	3734419.93	5.11E-08	2.33E-07	5.10E-10	2.85E-07	7.00E-09	3.19E-08	0.00E+00	3.89E-08	4.30E-09	1.47E-08	0.00E+00	1.90E-08
4062	420952.92	3734410.66	4.63E-08	2.12E-07	4.63E-10	2.59E-07	6.35E-09	2.90E-08	0.00E+00	3.53E-08	3.90E-09	1.33E-08	0.00E+00	1.72E-08
4063	420952.85	3734401.38	4.21E-08	1.93E-07	4.21E-10	2.35E-07	5.78E-09	2.63E-08	0.00E+00	3.21E-08	3.54E-09	1.21E-08	0.00E+00	1.57E-08
4064	420952.78	3734392.11	3.85E-08	1.76E-07	3.85E-10	2.15E-07	5.28E-09	2.41E-08	0.00E+00	2.94E-08	3.24E-09	1.11E-08	0.00E+00	1.43E-08
4065	420973.52	3734493.99	9.21E-08	4.21E-07	9.21E-10	5.14E-07	1.26E-08	5.76E-08	0.00E+00	7.02E-08	7.75E-09	2.65E-08	0.00E+00	3.42E-08
4066	420973.45	3734484.71	8.47E-08	3.87E-07	8.46E-10	4.73E-07	1.16E-08	5.29E-08	0.00E+00	6.46E-08	7.13E-09	2.43E-08	0.00E+00	3.15E-08
4067	420973.38	3734475.44	7.76E-08	3.55E-07	7.75E-10	4.33E-07	1.06E-08	4.85E-08	0.00E+00	5.91E-08	6.52E-09	2.23E-08	0.00E+00	2.88E-08
4068	420973.32	3734466.16	7.08E-08	3.24E-07	7.07E-10	3.95E-07	9.70E-09	4.43E-08	0.00E+00	5.40E-08	5.95E-09	2.03E-08	0.00E+00	2.63E-08
4069	420973.12	3734438.34	5.33E-08	2.43E-07	5.32E-10	2.97E-07	7.30E-09	3.33E-08	0.00E+00	4.06E-08	4.48E-09	1.53E-08	0.00E+00	1.98E-08
4070	420973.05	3734429.06	4.84E-08	2.21E-07	4.84E-10	2.70E-07	6.64E-09	3.03E-08	0.00E+00	3.69E-08	4.07E-09	1.39E-08	0.00E+00	1.80E-08
4071	420972.98	3734419.79	4.41E-08	2.01E-07	4.40E-10	2.46E-07	6.04E-09	2.75E-08	0.00E+00	3.36E-08	3.71E-09	1.27E-08	0.00E+00	1.64E-08
4072	420972.92	3734410.51	4.02E-08	1.84E-07	4.02E-10	2.24E-07	5.51E-09	2.51E-08	0.00E+00	3.06E-08	3.38E-09	1.15E-08	0.00E+00	1.49E-08
4073	420972.85	3734401.24	3.67E-08	1.68E-07	3.67E-10	2.05E-07	5.04E-09	2.30E-08	0.00E+00	2.80E-08	3.09E-09	1.06E-08	0.00E+00	1.36E-08
4074	420972.78	3734391.96	3.38E-08	1.54E-07	3.38E-10	1.89E-07	4.63E-09	2.11E-08	0.00E+00	2.57E-08	2.84E-09	9.71E-09	0.00E+00	1.25E-08
4075	420993.58	3734503.12	8.32E-08	3.81E-07	8.32E-10	4.65E-07	1.14E-08	5.20E-08	0.00E+00	6.35E-08	7.00E-09	2.39E-08	0.00E+00	3.09E-08
4076	420993.52	3734493.85	7.71E-08	3.53E-07	7.71E-10	4.30E-07	1.06E-08	4.82E-08	0.00E+00	5.88E-08	6.49E-09	2.22E-08	0.00E+00	2.86E-08
4077	420993.45	3734484.57	7.11E-08	3.25E-07	7.11E-10	3.97E-07	9.75E-09	4.45E-08	0.00E+00	5.42E-08	5.98E-09	2.04E-08	0.00E+00	2.64E-08
4078	420993.38	3734475.3	6.54E-08	2.99E-07	6.54E-10	3.65E-07	8.97E-09	4.09E-08	0.00E+00	4.99E-08	5.50E-09	1.88E-08	0.00E+00	2.43E-08
4079	420993.32	3734466.02	6.00E-08	2.74E-07	5.99E-10	3.35E-07	8.22E-09	3.75E-08	0.00E+00	4.57E-08	5.05E-09	1.72E-08	0.00E+00	2.23E-08
4080	421013.58	3734502.98	6.98E-08	3.19E-07	6.97E-10	3.89E-07	9.56E-09	4.36E-08	0.00E+00	5.32E-08	5.87E-09	2.00E-08	0.00E+00	2.59E-08
4081	421013.52	3734493.7	6.49E-08	2.97E-07	6.48E-10	3.62E-07	8.89E-09	4.05E-08	0.00E+00	4.94E-08	5.46E-09	1.86E-08	0.00E+00	2.41E-08
4082	421013.45	3734484.43	6.02E-08	2.75E-07	6.02E-10	3.36E-07	8.26E-09	3.77E-08	0.00E+00	4.59E-08	5.07E-09	1.73E-08	0.00E+00	2.24E-08
4083	421013.38	3734475.15	5.58E-08	2.55E-07	5.57E-10	3.11E-07	7.65E-09	3.49E-08	0.00E+00	4.25E-08	4.69E-09	1.60E-08	0.00E+00	2.07E-08
4084	421013.32	3734465.88	5.14E-08	2.35E-07	5.13E-10	2.87E-07	7.04E-09	3.21E-08	0.00E+00	3.92E-08	4.32E-09	1.48E-08	0.00E+00	1.91E-08
4085	421013.18	3734447.33	4.34E-08	1.98E-07	4.34E-10	2.42E-07	5.95E-09	2.71E-08	0.00E+00	3.31E-08	3.65E-09	1.25E-08	0.00E+00	1.61E-08
4086	421013.12	3734438.05	3.98E-08	1.82E-07	3.98E-10	2.22E-07	5.46E-09	2.49E-08	0.00E+00	3.04E-08	3.35E-09	1.14E-08	0.00E+00	1.48E-08
4087	421013.05	3734428.78	3.66E-08	1.67E-07	3.66E-10	2.04E-07	5.02E-09	2.29E-08	0.00E+00	2.79E-08	3.08E-09	1.05E-08	0.00E+00	1.36E-08
4088	421012.98	3734419.5	3.36E-08	1.54E-07	3.36E-10	1.88E-07	4.61E-09	2.10E-08	0.00E+00	2.56E-08	2.83E-09	9.67E-09	0.00E+00	1.25E-08
4089	421012.92	3734410.23	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.36E-08	2.61E-09	8.90E-09	0.00E+00	1.15E-08
4090	421012.85	3734400.95	2.86E-08	1.31E-07	2.86E-10	1.60E-07	3.92E-09	1.79E-08	0.00E+00	2.18E-08	2.40E-09	8.21E-09	0.00E+00	1.06E-08
4091	421012.78	3734391.68	2.65E-08	1.21E-07	2.65E-10	1.48E-07	3.63E-09	1.66E-08	0.00E+00	2.02E-08	2.23E-09	7.61E-09	0.00E+00	9.84E-09
4092	421033.58	3734502.83	5.92E-08	2.71E-07	5.92E-10	3.31E-07	8.12E-09	3.70E-08	0.00E+00	4.51E-08	4.98E-09	1.70E-08	0.00E+00	2.20E-08
4093	421033.52	3734493.56	5.52E-08	2.53E-07	5.52E-10	3.08E-07	7.57E-09	3.45E-08	0.00E+00	4.21E-08	4.65E-09	1.59E-08	0.00E+00	2.05E-08
4094	421033.45	3734484.28	5.14E-08	2.35E-07	5.14E-10	2.87E-07	7.05E-09	3.22E-08	0.00E+00	3.92E-08	4.33E-09	1.48E-08	0.00E+00	1.91E-08
4095	421033.38	3734475.01	4.78E-08	2.19E-07	4.78E-10	2.67E-07	6.55E-09	2.99E-08	0.00E+00	3.64E-08	4.02E-09	1.37E-08	0.00E+00	1.78E-08
4096	421033.32	3734465.73	4.44E-08	2.03E-07	4.43E-10	2.48E-07	6.08E-09	2.77E-08	0.00E+00	3.38E-08	3.73E-09	1.27E-08	0.00E+00	1.65E-08
4097	421033.18	3734447.18	3.77E-08	1.72E-07	3.77E-10	2.10E-07	5.17E-09	2.36E-08	0.00E+00	2.87E-08	3.17E-09	1.08E-08	0.00E+00	1.40E-08
4098	421033.12	3734437.91	3.47E-08	1.58E-07	3.46E-10	1.93E-07	4.75E-09	2.17E-08	0.00E+00	2.64E-08	2.92E-09	9.96E-09	0.00E+00	1.29E-08
4099	421033.05	3734428.63	3.19E-08	1.46E-07	3.19E-10	1.78E-07	4.37E-09	1.99E-08	0.00E+00	2.43E-08	2.68E-09	9.16E-09	0.00E+00	1.18E-08
4100	421032.98	3734419.36	2.94E-08	1.35E-07	2.94E-10	1.64E-07	4.04E-09	1.84E-08	0.00E+00	2.24E-08	2.48E-09	8.46E-09	0.00E+00	1.09E-08
4101	421032.92	3734410.08	2.72E-08	1.25E-07	2.72E-10	1.52E-07	3.73E-09	1.70E-08	0.00E+00	2.08E-08	2.29E-09	7.83E-09	0.00E+00	1.01E-08
4102	421032.85	3734400.81	2.52E-08	1.15E-07	2.52E-10	1.41E-07	3.46E-09	1.58E-08	0.00E+00	1.92E-08	2.12E-09	7.25E-09	0.00E+00	9.37E-09
4103	421032.78	3734391.53	2.36E-08	1.08E-07	2.36E-10	1.32E-07	3.24E-09	1.48E-08	0.00E+00	1.80E-08	1.99E-09	6.79E-09	0.00E+00	8.78E-09
4104	421073.58	3734502.55	4.44E-08	2.03E-07	4.44E-10	2.48E-07	6.08E-09	2.77E-08	0.00E+00	3.38E-08	3.73E-09	1.28E-08	0.00E+00	1.65E-08
4105	421073.51	3734493.27	4.16E-08	1.90E-07	4.15E-10	2.32E-07	5.70E-09	2.60E-08	0.00E+00	3.17E-08	3.50E-09	1.19E-08	0.00E+00	1.54E-08
4106	421073.45	3734484	3.87E-08	1.77E-07	3.87E-10	2.16E-07	5.31E-09	2.42E-08	0.00E+00	2.95E-08	3.26E-09	1.11E-08	0.00E+00	1.44E-08
4107	421073.38	3734474.72	3.59E-08	1.64E-07	3.59E-10	2.01E-07	4.93E-09	2.25E-08	0.00E+00	2.74E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
4108	421073.31	3734465.45	3.33E-08	1.52E-07	3.33E-10	1.86E-07	4.57E-09	2.08E-08	0.00E+00	2.54E-08	2.80E-09	9.57E-09	0.00E+00	1.24E-08
4109	421153.58	3734501.97	2.72E-08	1.24E-07	2.72E-10	1.52E-07	3.73E-09	1.70E-08	0.00E+00	2.07E-08	2.29E-09	7.81E-09	0.00E+00	1.01E-08
4110	421153.51	3734492.7	2.57E-08	1.18E-07	2.57E-10	1.44E-07	3.53E-09	1.61E-08	0.00E+00	1.96E-08	2.16E-09	7.39E-09	0.00E+00	9.55E-09
4111	421153.45	3734483.42	2.41E-08	1.10E-07	2.41E-10	1.35E-07	3.31E-09	1.51E-08	0.00E+00	1.84E-08	2.03E-09	6.93E-09	0.00E+00	8.96E-09
4112	421153.38	3734474.15	2.26E-08	1.03E-07	2.25E-10	1.26E-07	3.09E-09	1.41E-08	0.00E+00	1.72E-08	1.90E-09	6.48E-09	0.00E+00	8.38E-09
4113	421153.31	3734464.87	2.11E-08	9.64E-08	2.11E-10	1.18E-07	2.89E-09	1.32E-08	0.00E+00	1.61E-08	1.77E-09	6.06E-09	0.00E+00	7.83E-09
4114	421153.18	3734446.32	1.86E-08	8.51E-08	1.86E-10	1.04E-07	2.55E-09	1.16E-08	0.00E+00	1.42E-08	1.57E-09	5.35E-09	0.00E+00	6.92E-09
4115	421153.11	3734437.05	1.75E-08	8.02E-08	1.75E-10	9.79E-08	2.40E-09	1.10E-08	0.00E+00	1.34E-08	1.48E-09	5.04E-09	0.00E+00	6.52E-09
4116	421153.05	3734427.77	1.66E-08	7.57E-08	1.65E-10	9.24E-08	2.27E-09	1.04E-08	0.00E+00	1.26E-08	1.39E-09	4.76E-09	0.00E+00	6.15E-09
4117	421152.98	3734418.5	1.57E-08	7.19E-08	1.57E-10	8.78E-08	2.16E-09	9.84E-09	0.00E+00	1.20E-08	1.32E-09	4.52E-09	0.00E+00	5.84E-09
4118	421152.91	3734409.22	1.49E-08	6.81E-08	1.49E-10	8.31E-08	2.04E-09	9.31E-09	0.00E+00	1.14E-08	1.25E-09	4.28E-09	0.00E+00	5.53E-09
4119	421152.85	3734399.95	1.40E-08	6.42E-08	1.40E-10	7.84E-08	1.93E-09	8.78E-09	0.00E+00	1.07E-08	1.18E-09	4.04E-09	0.00E+00	5.22E-09
4120	421152.78	3734390.67	1.33E-08	6.06E-08	1.33E-10	7.40E-08	1.82E-09	8.29E-09	0.00E+00	1.01E-08	1.12E-09	3.81E-09	0.00E+00	4.93E-09
4121	421193.58	3734501.68	2.19E-08	1.00E-07	2.19E-10	1.23E-07	3.01E-09	1.37E-08	0.00E+00	1.67E-08	1.85E-09	6.31E-09	0.00E+00	8.15E-09

4122	421193.51	3734492.41	2.09E-08	9.54E-08	2.08E-10	1.16E-07	2.86E-09	1.30E-08	0.00E+00	1.59E-08	1.75E-09	5.99E-09	0.00E+00	7.75E-09
4123	421193.44	3734483.13	1.97E-08	9.02E-08	1.97E-10	1.10E-07	2.71E-09	1.23E-08	0.00E+00	1.50E-08	1.66E-09	5.67E-09	0.00E+00	7.33E-09
4124	421193.38	3734473.86	1.87E-08	8.53E-08	1.87E-10	1.04E-07	2.56E-09	1.17E-08	0.00E+00	1.42E-08	1.57E-09	5.36E-09	0.00E+00	6.93E-09
4125	421193.31	3734464.58	1.76E-08	8.06E-08	1.76E-10	9.85E-08	2.42E-09	1.10E-08	0.00E+00	1.34E-08	1.48E-09	5.07E-09	0.00E+00	6.55E-09
4126	421193.18	3734446.03	1.57E-08	7.20E-08	1.57E-10	8.79E-08	2.16E-09	9.84E-09	0.00E+00	1.20E-08	1.32E-09	4.52E-09	0.00E+00	5.85E-09
4127	421193.11	3734436.76	1.49E-08	6.80E-08	1.49E-10	8.30E-08	2.04E-09	9.30E-09	0.00E+00	1.13E-08	1.25E-09	4.27E-09	0.00E+00	5.52E-09
4128	421193.04	3734427.48	1.41E-08	6.43E-08	1.40E-10	7.84E-08	1.93E-09	8.79E-09	0.00E+00	1.07E-08	1.18E-09	4.04E-09	0.00E+00	5.22E-09
4129	421192.98	3734418.21	1.33E-08	6.07E-08	1.33E-10	7.42E-08	1.82E-09	8.31E-09	0.00E+00	1.01E-08	1.12E-09	3.82E-09	0.00E+00	4.93E-09
4130	421192.91	3734408.93	1.26E-08	5.74E-08	1.26E-10	7.01E-08	1.72E-09	7.86E-09	0.00E+00	9.58E-09	1.06E-09	3.61E-09	0.00E+00	4.67E-09
4131	421192.84	3734399.66	1.19E-08	5.44E-08	1.19E-10	6.64E-08	1.63E-09	7.44E-09	0.00E+00	9.07E-09	1.00E-09	3.42E-09	0.00E+00	4.42E-09
4132	421192.78	3734390.38	1.13E-08	5.15E-08	1.13E-10	6.29E-08	1.54E-09	7.04E-09	0.00E+00	8.59E-09	9.48E-10	3.24E-09	0.00E+00	4.19E-09
4133	421233.58	3734501.4	1.81E-08	8.27E-08	1.81E-10	1.01E-07	2.48E-09	1.13E-08	0.00E+00	1.38E-08	1.52E-09	5.20E-09	0.00E+00	6.72E-09
4134	421233.51	3734492.12	1.72E-08	7.86E-08	1.72E-10	9.59E-08	2.36E-09	1.07E-08	0.00E+00	1.31E-08	1.45E-09	4.94E-09	0.00E+00	6.38E-09
4135	421233.44	3734482.85	1.63E-08	7.46E-08	1.63E-10	9.11E-08	2.24E-09	1.02E-08	0.00E+00	1.24E-08	1.37E-09	4.69E-09	0.00E+00	6.06E-09
4136	421233.38	3734473.57	1.55E-08	7.08E-08	1.55E-10	8.65E-08	2.12E-09	9.69E-09	0.00E+00	1.18E-08	1.30E-09	4.45E-09	0.00E+00	5.76E-09
4137	421233.31	3734464.3	1.47E-08	6.72E-08	1.47E-10	8.20E-08	2.01E-09	9.19E-09	0.00E+00	1.12E-08	1.24E-09	4.22E-09	0.00E+00	5.46E-09
4138	421233.11	3734436.47	1.25E-08	5.74E-08	1.25E-10	7.00E-08	1.72E-09	7.84E-09	0.00E+00	9.56E-09	1.06E-09	3.61E-09	0.00E+00	4.66E-09
4139	421233.04	3734427.2	1.19E-08	5.44E-08	1.19E-10	6.64E-08	1.63E-09	7.44E-09	0.00E+00	9.07E-09	1.00E-09	3.42E-09	0.00E+00	4.42E-09
4140	421232.98	3734417.92	1.13E-08	5.16E-08	1.13E-10	6.30E-08	1.55E-09	7.06E-09	0.00E+00	8.61E-09	9.50E-10	3.25E-09	0.00E+00	4.20E-09
4141	421232.91	3734408.65	1.07E-08	4.90E-08	1.07E-10	5.98E-08	1.47E-09	6.70E-09	0.00E+00	8.17E-09	9.02E-10	3.08E-09	0.00E+00	3.98E-09
4142	421232.84	3734399.37	1.02E-08	4.66E-08	1.02E-10	5.68E-08	1.40E-09	6.37E-09	0.00E+00	7.76E-09	8.57E-10	2.93E-09	0.00E+00	3.78E-09
4143	421232.78	3734390.1	9.67E-09	4.42E-08	9.67E-11	5.40E-08	1.33E-09	6.05E-09	0.00E+00	7.37E-09	8.14E-10	2.78E-09	0.00E+00	3.59E-09
4144	421273.49	3734510.26	1.58E-08	7.24E-08	1.58E-10	8.84E-08	2.17E-09	9.90E-09	0.00E+00	1.21E-08	1.33E-09	4.55E-09	0.00E+00	5.88E-09
4145	421273.58	3734501.11	1.51E-08	6.91E-08	1.51E-10	8.43E-08	2.07E-09	9.44E-09	0.00E+00	1.15E-08	1.27E-09	4.34E-09	0.00E+00	5.61E-09
4146	421273.51	3734491.83	1.44E-08	6.59E-08	1.44E-10	8.04E-08	1.97E-09	9.00E-09	0.00E+00	1.10E-08	1.21E-09	4.14E-09	0.00E+00	5.35E-09
4147	421273.44	3734482.56	1.37E-08	6.27E-08	1.37E-10	7.66E-08	1.88E-09	8.58E-09	0.00E+00	1.05E-08	1.15E-09	3.94E-09	0.00E+00	5.10E-09
4148	421273.38	3734473.28	1.31E-08	5.97E-08	1.31E-10	7.29E-08	1.79E-09	8.17E-09	0.00E+00	9.96E-09	1.10E-09	3.75E-09	0.00E+00	4.85E-09
4149	421273.31	3734464.01	1.24E-08	5.69E-08	1.24E-10	6.94E-08	1.71E-09	7.78E-09	0.00E+00	9.48E-09	1.05E-09	3.57E-09	0.00E+00	4.62E-09
4150	421273.24	3734454.73	1.18E-08	5.41E-08	1.18E-10	6.61E-08	1.62E-09	7.40E-09	0.00E+00	9.02E-09	9.96E-10	3.40E-09	0.00E+00	4.40E-09
4151	421273.18	3734445.46	1.13E-08	5.15E-08	1.12E-10	6.28E-08	1.54E-09	7.04E-09	0.00E+00	8.58E-09	9.47E-10	3.23E-09	0.00E+00	4.18E-09
4152	421273.11	3734436.18	1.07E-08	4.89E-08	1.07E-10	5.98E-08	1.47E-09	6.69E-09	0.00E+00	8.16E-09	9.01E-10	3.08E-09	0.00E+00	3.98E-09
4153	421273.04	3734426.91	1.02E-08	4.66E-08	1.02E-10	5.69E-08	1.40E-09	6.37E-09	0.00E+00	7.76E-09	8.57E-10	2.93E-09	0.00E+00	3.78E-09
4154	421272.98	3734417.63	9.70E-09	4.43E-08	9.69E-11	5.41E-08	1.33E-09	6.06E-09	0.00E+00	7.39E-09	8.16E-10	2.79E-09	0.00E+00	3.60E-09
4155	421272.91	3734408.36	9.24E-09	4.22E-08	9.23E-11	5.16E-08	1.27E-09	5.78E-09	0.00E+00	7.04E-09	7.77E-10	2.65E-09	0.00E+00	3.43E-09
4156	421272.84	3734399.08	8.81E-09	4.03E-08	8.80E-11	4.92E-08	1.21E-09	5.51E-09	0.00E+00	6.71E-09	7.41E-10	2.53E-09	0.00E+00	3.27E-09
4157	421272.78	3734389.81	8.36E-09	3.82E-08	8.35E-11	4.67E-08	1.15E-09	5.23E-09	0.00E+00	6.37E-09	7.03E-10	2.40E-09	0.00E+00	3.11E-09
4158	421313.51	3734507.37	1.32E-08	6.03E-08	1.32E-10	7.36E-08	1.81E-09	8.25E-09	0.00E+00	1.01E-08	1.11E-09	3.79E-09	0.00E+00	4.90E-09
4159	421313.51	3734491.55	1.22E-08	5.58E-08	1.22E-10	6.82E-08	1.67E-09	7.64E-09	0.00E+00	9.31E-09	1.03E-09	3.51E-09	0.00E+00	4.54E-09
4160	421313.44	3734482.27	1.17E-08	5.33E-08	1.17E-10	6.51E-08	1.60E-09	7.29E-09	0.00E+00	8.89E-09	9.82E-10	3.35E-09	0.00E+00	4.33E-09
4161	421313.38	3734473	1.11E-08	5.10E-08	1.11E-10	6.22E-08	1.53E-09	6.97E-09	0.00E+00	8.49E-09	9.38E-10	3.20E-09	0.00E+00	4.14E-09
4162	421313.31	3734463.72	1.06E-08	4.86E-08	1.06E-10	5.94E-08	1.46E-09	6.65E-09	0.00E+00	8.11E-09	8.95E-10	3.06E-09	0.00E+00	3.95E-09
4163	421313.24	3734454.45	1.02E-08	4.64E-08	1.01E-10	5.67E-08	1.39E-09	6.35E-09	0.00E+00	7.74E-09	8.54E-10	2.92E-09	0.00E+00	3.77E-09
4164	421313.18	3734445.17	9.68E-09	4.43E-08	9.68E-11	5.40E-08	1.33E-09	6.05E-09	0.00E+00	7.38E-09	8.15E-10	2.78E-09	0.00E+00	3.60E-09
4165	421313.11	3734435.9	9.24E-09	4.23E-08	9.24E-11	5.16E-08	1.27E-09	5.78E-09	0.00E+00	7.05E-09	7.78E-10	2.66E-09	0.00E+00	3.43E-09
4166	421313.04	3734426.62	8.79E-09	4.02E-08	8.79E-11	4.91E-08	1.20E-09	5.50E-09	0.00E+00	6.70E-09	7.40E-10	2.53E-09	0.00E+00	3.27E-09
4167	421312.98	3734417.35	8.39E-09	3.84E-08	8.38E-11	4.68E-08	1.15E-09	5.24E-09	0.00E+00	6.39E-09	7.06E-10	2.41E-09	0.00E+00	3.12E-09
4168	421312.91	3734408.07	8.01E-09	3.66E-08	8.00E-11	4.47E-08	1.10E-09	5.01E-09	0.00E+00	6.10E-09	6.74E-10	2.30E-09	0.00E+00	2.97E-09
4169	421312.84	3734398.8	7.65E-09	3.50E-08	7.65E-11	4.27E-08	1.05E-09	4.78E-09	0.00E+00	5.83E-09	6.44E-10	2.20E-09	0.00E+00	2.84E-09
4170	421312.78	3734389.52	7.32E-09	3.35E-08	7.31E-11	4.08E-08	1.00E-09	4.57E-09	0.00E+00	5.58E-09	6.16E-10	2.10E-09	0.00E+00	2.72E-09
4171	421353.11	3734435.61	8.06E-09	3.69E-08	8.06E-11	4.50E-08	1.11E-09	5.04E-09	0.00E+00	6.15E-09	6.78E-10	2.32E-09	0.00E+00	3.00E-09
4172	421353.04	3734426.33	7.72E-09	3.53E-08	7.72E-11	4.31E-08	1.06E-09	4.83E-09	0.00E+00	5.88E-09	6.50E-10	2.22E-09	0.00E+00	2.87E-09
4173	421352.97	3734417.06	7.39E-09	3.38E-08	7.39E-11	4.13E-08	1.01E-09	4.62E-09	0.00E+00	5.64E-09	6.22E-10	2.12E-09	0.00E+00	2.75E-09
4174	421352.91	3734407.78	7.09E-09	3.24E-08	7.08E-11	3.96E-08	9.71E-10	4.43E-09	0.00E+00	5.40E-09	5.96E-10	2.04E-09	0.00E+00	2.63E-09
4175	421352.84	3734398.51	6.79E-09	3.11E-08	6.79E-11	3.79E-08	9.31E-10	4.25E-09	0.00E+00	5.18E-09	5.71E-10	1.95E-09	0.00E+00	2.52E-09
4176	421352.77	3734389.23	6.51E-09	2.98E-08	6.51E-11	3.64E-08	8.93E-10	4.07E-09	0.00E+00	4.97E-09	5.48E-10	1.87E-09	0.00E+00	2.42E-09
4177	421393.5	3734507.7	9.73E-09	4.45E-08	9.73E-11	5.43E-08	1.33E-09	6.08E-09	0.00E+00	7.42E-09	8.19E-10	2.80E-09	0.00E+00	3.61E-09
4178	421393.51	3734490.97	9.07E-09	4.15E-08	9.06E-11	5.06E-08	1.24E-09	5.67E-09	0.00E+00	6.91E-09	7.63E-10	2.61E-09	0.00E+00	3.37E-09
4179	421393.44	3734481.7	8.71E-09	3.98E-08	8.70E-11	4.86E-08	1.19E-09	5.45E-09	0.00E+00	6.64E-09	7.33E-10	2.50E-09	0.00E+00	3.24E-09
4180	421393.37	3734472.42	8.36E-09	3.82E-08	8.36E-11	4.67E-08	1.15E-09	5.23E-09	0.00E+00	6.37E-09	7.03E-10	2.40E-09	0.00E+00	3.11E-09
4181	421393.31	3734463.15	8.02E-09	3.67E-08	8.02E-11	4.48E-08	1.10E-09	5.02E-09	0.00E+00	6.12E-09	6.75E-10	2.31E-09	0.00E+00	2.98E-09
4182	421393.24	3734453.87	7.70E-09	3.52E-08	7.70E-11	4.30E-08	1.06E-09	4.82E-09	0.00E+00	5.87E-09	6.48E-10	2.21E-09	0.00E+00	2.86E-09
4183	421393.17	3734444.6	7.39E-09	3.38E-08	7.39E-11	4.13E-08	1.01E-09	4.62E-09	0.00E+00	5.64E-09	6.22E-10	2.12E-09	0.00E+00	2.75E-09
4184	421393.11	3734435.32	7.10E-09	3.24E-08	7.09E-11	3.96E-08	9.73E-10	4.44E-09	0.00E+00	5.41E-09	5.97E-10	2.04E-09	0.00E+00	2.64E-09
4185	421393.04	3734426.05	6.81E-09	3.11E-08	6.81E-11	3.80E-08	9.34E-10	4.26E-09	0.00E+00	5.19E-09	5.73E-10	1.96E-09	0.00E+00	2.53E-09
4186	421392.97	3734416.77	6.54E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	0.00E+00	4.99E-09	5.50E-10	1.88E-09	0.00E+00	2.43E-09
4187	421392.91	3734407.5	6.28E-09	2.87E-08	6.28E-11	3.51E-08	8.61E-10	3.93E-09	0.00E+00	4.79E-09	5.29E-10	1.81E-09	0.00E+00	2.33E-09
4188	421392.84	3734398.22	6.04E-09	2.76E-08	6.04E-11	3.37E-08	8.28E-10	3.78E-09	0.00E+00	4.60E-09	5.08E-10	1.74E-09	0.00E+00	2.24E-09
4189	421392.77	3734388.95	5.79E-09	2.65E-08	5.79E-11	3.23E-08	7.94E-10	3.62E-09	0.00E+00	4.42E-09	4.87E-10	1.66E-09	0.00E+00	2.15E-09
4190	421433.49	3734507.87	8.38E-09	3.83E-08	8.37E-11	4.68E-08	1.15E-09	5.24E-09	0.00E+00	6.38E-09	7.05E-10	2.41E-09	0.00E+00	3.11E-09
4191	421433.51	3734490.68	7.84E-09	3.58E-08	7.83E-11	4.37E-08	1.07E-09	4.90E-09	0.00E+00	5.97E-09	6.59E-10	2.25E-09	0.00E+00	2.91E-09
4192	421433.44	3734481.41	7.56E-09	3.46E-08	7.56E-11	4.22E-08	1.04E-09	4.73E-09	0.00E+00	5.77E-09	6.36E-10	2.17E-09	0.00E+00	2.81E-09
4193	421433.37	3734472.13	7.30E-09	3.34E-08	7.29E-11	4.07E-08	1.00E-09	4.56E-09	0.00E+00	5.56E-09	6.14E-10	2.10E-09	0.00E+00	2.71E-09
4194	421433.31	3734462.86	7.04E-09	3.22E-08	7.04E-11	3.93E-08	9.65E-10	4.40E-09	0.00E+00	5.37E-09	5.92E-10	2.02E-09	0.00E+00	2.62E-09
4195	421433.24	3734453.58	6.79E-09	3.11E-08	6.79E-11	3.79E-08	9.31E-10	4.25E-09	0.00E+00	5.18E-09	5.72E-10	1.95E-09	0.00E+00	2.52E-09
4196	421433.17	3734444.31	6.54E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	0.00E+00	4.99E-09	5.51E-10	1.88E-09	0.00E+00	2.43E-09

4197	421433.11	3734435.03	6.30E-09	2.88E-08	6.29E-11	3.51E-08	8.63E-10	3.94E-09	0.00E+00	4.80E-09	5.30E-10	1.81E-09	0.00E+00	2.34E-09
4198	421433.04	3734425.76	6.06E-09	2.77E-08	6.06E-11	3.38E-08	8.31E-10	3.79E-09	0.00E+00	4.62E-09	5.10E-10	1.74E-09	0.00E+00	2.25E-09
4199	421432.97	3734416.48	5.83E-09	2.67E-08	5.83E-11	3.26E-08	7.99E-10	3.65E-09	0.00E+00	4.45E-09	4.91E-10	1.68E-09	0.00E+00	2.17E-09
4200	421432.91	3734407.21	5.61E-09	2.57E-08	5.61E-11	3.13E-08	7.70E-10	3.51E-09	0.00E+00	4.28E-09	4.72E-10	1.61E-09	0.00E+00	2.09E-09
4201	421432.84	3734397.93	5.41E-09	2.47E-08	5.41E-11	3.02E-08	7.41E-10	3.38E-09	0.00E+00	4.12E-09	4.55E-10	1.55E-09	0.00E+00	2.01E-09
4202	421432.77	3734388.66	5.21E-09	2.38E-08	5.20E-11	2.91E-08	7.14E-10	3.26E-09	0.00E+00	3.97E-09	4.38E-10	1.50E-09	0.00E+00	1.93E-09
4203	420732.79	3734853.69	3.72E-08	1.70E-07	3.72E-10	2.08E-07	5.10E-09	2.33E-08	0.00E+00	2.84E-08	3.13E-09	1.07E-08	0.00E+00	1.38E-08
4204	420744.45	3734853.69	4.29E-08	1.96E-07	4.29E-10	2.40E-07	5.88E-09	2.68E-08	0.00E+00	3.27E-08	3.61E-09	1.23E-08	0.00E+00	1.59E-08
4205	420732.79	3734893.69	2.78E-08	1.27E-07	2.78E-10	1.55E-07	3.81E-09	1.74E-08	0.00E+00	2.12E-08	2.34E-09	7.98E-09	0.00E+00	1.03E-08
4206	420744.45	3734893.69	3.16E-08	1.45E-07	3.16E-10	1.77E-07	4.34E-09	1.98E-08	0.00E+00	2.41E-08	2.66E-09	9.09E-09	0.00E+00	1.18E-08
4207	420732.79	3734933.69	2.15E-08	9.82E-08	2.15E-10	1.20E-07	2.94E-09	1.34E-08	0.00E+00	1.64E-08	1.81E-09	6.17E-09	0.00E+00	7.98E-09
4208	420744.45	3734933.69	2.44E-08	1.11E-07	2.43E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	7.00E-09	0.00E+00	9.05E-09
4209	420732.79	3734973.69	1.73E-08	7.90E-08	1.73E-10	9.64E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.45E-09	4.96E-09	0.00E+00	6.42E-09
4210	420744.45	3734973.69	1.92E-08	8.78E-08	1.92E-10	1.07E-07	2.63E-09	1.20E-08	0.00E+00	1.46E-08	1.61E-09	5.52E-09	0.00E+00	7.13E-09
4211	420732.79	3735013.69	1.40E-08	6.41E-08	1.40E-10	7.82E-08	1.92E-09	8.76E-09	0.00E+00	1.07E-08	1.18E-09	4.03E-09	0.00E+00	5.21E-09
4212	420744.45	3735013.69	1.54E-08	7.03E-08	1.54E-10	8.59E-08	2.11E-09	9.62E-09	0.00E+00	1.17E-08	1.29E-09	4.42E-09	0.00E+00	5.71E-09
4213	420732.79	3735053.69	1.15E-08	5.24E-08	1.15E-10	6.40E-08	1.57E-09	7.17E-09	0.00E+00	8.74E-09	9.65E-10	3.30E-09	0.00E+00	4.26E-09
4214	420744.45	3735053.69	1.25E-08	5.72E-08	1.25E-10	6.99E-08	1.72E-09	7.83E-09	0.00E+00	9.54E-09	1.05E-09	3.60E-09	0.00E+00	4.65E-09
4215	420754.41	3734383.95	1.82E-07	8.33E-07	1.82E-09	1.02E-06	2.50E-08	1.14E-07	0.00E+00	1.39E-07	1.53E-08	5.23E-08	0.00E+00	6.77E-08
4216	420754.38	3734374.25	1.45E-07	6.61E-07	1.45E-09	8.08E-07	1.98E-08	9.04E-08	0.00E+00	1.10E-07	1.22E-08	4.16E-08	0.00E+00	5.37E-08
4217	420754.34	3734364.55	1.17E-07	5.36E-07	1.17E-09	6.55E-07	1.61E-08	7.34E-08	0.00E+00	8.94E-08	9.87E-09	3.37E-08	0.00E+00	4.36E-08
4218	420754.31	3734354.84	9.68E-08	4.43E-07	9.67E-10	5.40E-07	1.33E-08	6.05E-08	0.00E+00	7.38E-08	8.14E-09	2.78E-08	0.00E+00	3.60E-08
4219	420754.27	3734345.14	8.09E-08	3.70E-07	8.09E-10	4.52E-07	1.11E-08	5.06E-08	0.00E+00	6.17E-08	6.81E-09	2.32E-08	0.00E+00	3.01E-08
4220	420754.23	3734335.44	6.85E-08	3.13E-07	6.84E-10	3.82E-07	9.38E-09	4.28E-08	0.00E+00	5.22E-08	5.76E-09	1.97E-08	0.00E+00	2.54E-08
4221	420754.2	3734325.74	5.86E-08	2.68E-07	5.85E-10	3.27E-07	8.03E-09	3.66E-08	0.00E+00	4.46E-08	4.93E-09	1.68E-08	0.00E+00	2.18E-08
4222	420764.41	3734383.91	1.68E-07	7.66E-07	1.67E-09	9.35E-07	2.30E-08	1.05E-07	0.00E+00	1.28E-07	1.41E-08	4.81E-08	0.00E+00	6.22E-08
4223	420764.38	3734374.21	1.36E-07	6.20E-07	1.36E-09	7.57E-07	1.86E-08	8.48E-08	0.00E+00	1.03E-07	1.14E-08	3.90E-08	0.00E+00	5.04E-08
4224	420764.34	3734364.51	1.12E-07	5.10E-07	1.12E-09	6.23E-07	1.53E-08	6.97E-08	0.00E+00	8.50E-08	9.39E-09	3.21E-08	0.00E+00	4.14E-08
4225	420764.31	3734354.81	9.30E-08	4.25E-07	9.30E-10	5.19E-07	1.28E-08	5.82E-08	0.00E+00	7.09E-08	7.83E-09	2.67E-08	0.00E+00	3.46E-08
4226	420764.27	3734345.11	7.85E-08	3.59E-07	7.84E-10	4.38E-07	1.08E-08	4.91E-08	0.00E+00	5.98E-08	6.60E-09	2.25E-08	0.00E+00	2.91E-08
4227	420764.23	3734335.4	6.69E-08	3.06E-07	6.69E-10	3.73E-07	9.17E-09	4.18E-08	0.00E+00	5.10E-08	5.63E-09	1.92E-08	0.00E+00	2.48E-08
4228	420764.2	3734325.7	5.76E-08	2.63E-07	5.75E-10	3.21E-07	7.89E-09	3.60E-08	0.00E+00	4.39E-08	4.84E-09	1.65E-08	0.00E+00	2.14E-08
4229	420774.41	3734383.88	1.53E-07	6.99E-07	1.53E-09	8.54E-07	2.10E-08	9.56E-08	0.00E+00	1.17E-07	1.29E-08	4.39E-08	0.00E+00	5.68E-08
4230	420774.38	3734374.17	1.26E-07	5.76E-07	1.26E-09	7.03E-07	1.73E-08	7.87E-08	0.00E+00	9.60E-08	1.06E-08	3.62E-08	0.00E+00	4.68E-08
4231	420774.34	3734364.47	1.05E-07	4.80E-07	1.05E-09	5.86E-07	1.44E-08	6.57E-08	0.00E+00	8.01E-08	8.84E-09	3.02E-08	0.00E+00	3.90E-08
4232	420774.31	3734354.77	8.86E-08	4.05E-07	8.85E-10	4.94E-07	1.21E-08	5.54E-08	0.00E+00	6.75E-08	7.45E-09	2.55E-08	0.00E+00	3.29E-08
4233	420774.27	3734345.07	7.54E-08	3.45E-07	7.54E-10	4.21E-07	1.03E-08	4.71E-08	0.00E+00	5.75E-08	6.34E-09	2.17E-08	0.00E+00	2.80E-08
4234	420774.23	3734335.37	6.48E-08	2.96E-07	6.48E-10	3.62E-07	8.89E-09	4.05E-08	0.00E+00	4.94E-08	5.45E-09	1.86E-08	0.00E+00	2.41E-08
4235	420774.2	3734325.66	5.62E-08	2.57E-07	5.62E-10	3.14E-07	7.70E-09	3.51E-08	0.00E+00	4.28E-08	4.73E-09	1.61E-08	0.00E+00	2.09E-08
4236	420834.38	3734373.95	7.66E-08	3.50E-07	7.65E-10	4.27E-07	1.05E-08	4.79E-08	0.00E+00	5.84E-08	6.44E-09	2.20E-08	0.00E+00	2.84E-08
4237	420834.34	3734364.25	6.77E-08	3.10E-07	6.77E-10	3.78E-07	9.28E-09	4.23E-08	0.00E+00	5.16E-08	5.70E-09	1.95E-08	0.00E+00	2.52E-08
4238	420834.31	3734354.55	6.03E-08	2.76E-07	6.03E-10	3.37E-07	8.26E-09	3.77E-08	0.00E+00	4.60E-08	5.07E-09	1.73E-08	0.00E+00	2.24E-08
4239	420834.27	3734344.85	5.39E-08	2.47E-07	5.39E-10	3.01E-07	7.39E-09	3.37E-08	0.00E+00	4.11E-08	4.54E-09	1.55E-08	0.00E+00	2.00E-08
4240	420834.23	3734335.14	4.84E-08	2.21E-07	4.84E-10	2.70E-07	6.63E-09	3.03E-08	0.00E+00	3.69E-08	4.07E-09	1.39E-08	0.00E+00	1.80E-08
4241	420834.2	3734325.44	4.36E-08	1.99E-07	4.35E-10	2.43E-07	5.97E-09	2.72E-08	0.00E+00	3.32E-08	3.66E-09	1.25E-08	0.00E+00	1.62E-08
4242	420834.16	3734315.74	3.93E-08	1.80E-07	3.93E-10	2.19E-07	5.39E-09	2.46E-08	0.00E+00	3.00E-08	3.31E-09	1.13E-08	0.00E+00	1.46E-08
4243	420834.13	3734306.04	3.56E-08	1.63E-07	3.55E-10	1.99E-07	4.88E-09	2.22E-08	0.00E+00	2.71E-08	2.99E-09	1.02E-08	0.00E+00	1.32E-08
4244	420844.41	3734383.62	8.00E-08	3.66E-07	7.99E-10	4.46E-07	1.10E-08	5.00E-08	0.00E+00	6.10E-08	6.73E-09	2.30E-08	0.00E+00	2.97E-08
4245	420844.38	3734373.91	7.06E-08	3.23E-07	7.05E-10	3.94E-07	9.67E-09	4.41E-08	0.00E+00	5.38E-08	5.94E-09	2.03E-08	0.00E+00	2.62E-08
4246	420844.34	3734364.21	6.28E-08	2.87E-07	6.28E-10	3.50E-07	8.61E-09	3.93E-08	0.00E+00	4.79E-08	5.28E-09	1.80E-08	0.00E+00	2.33E-08
4247	420844.31	3734354.51	5.62E-08	2.57E-07	5.62E-10	3.14E-07	7.71E-09	3.51E-08	0.00E+00	4.29E-08	4.73E-09	1.62E-08	0.00E+00	2.09E-08
4248	420844.27	3734344.81	5.06E-08	2.31E-07	5.05E-10	2.82E-07	6.93E-09	3.16E-08	0.00E+00	3.85E-08	4.25E-09	1.45E-08	0.00E+00	1.88E-08
4249	420844.23	3734335.11	4.56E-08	2.09E-07	4.56E-10	2.55E-07	6.25E-09	2.85E-08	0.00E+00	3.48E-08	3.84E-09	1.31E-08	0.00E+00	1.69E-08
4250	420844.2	3734325.4	4.13E-08	1.89E-07	4.13E-10	2.30E-07	5.66E-09	2.58E-08	0.00E+00	3.15E-08	3.47E-09	1.19E-08	0.00E+00	1.53E-08
4251	420844.16	3734315.7	3.74E-08	1.71E-07	3.74E-10	2.09E-07	5.13E-09	2.34E-08	0.00E+00	2.85E-08	3.15E-09	1.08E-08	0.00E+00	1.39E-08
4252	420844.13	3734306	3.40E-08	1.56E-07	3.40E-10	1.90E-07	4.67E-09	2.13E-08	0.00E+00	2.59E-08	2.86E-09	9.78E-09	0.00E+00	1.26E-08
4253	420843.46	3734444.33	2.16E-07	9.89E-07	2.16E-09	1.21E-06	2.96E-08	1.35E-07	0.00E+00	1.65E-07	1.82E-08	6.21E-08	0.00E+00	8.03E-08
4254	420864.41	3734383.54	6.76E-08	3.09E-07	6.75E-10	3.77E-07	9.26E-09	4.22E-08	0.00E+00	5.15E-08	5.68E-09	1.94E-08	0.00E+00	2.51E-08
4255	420864.38	3734373.84	6.03E-08	2.76E-07	6.02E-10	3.36E-07	8.26E-09	3.77E-08	0.00E+00	4.59E-08	5.07E-09	1.73E-08	0.00E+00	2.24E-08
4256	420864.34	3734364.14	5.41E-08	2.48E-07	5.41E-10	3.02E-07	7.42E-09	3.39E-08	0.00E+00	4.13E-08	4.56E-09	1.56E-08	0.00E+00	2.01E-08
4257	420864.31	3734354.44	4.89E-08	2.24E-07	4.89E-10	2.73E-07	6.71E-09	3.06E-08	0.00E+00	3.73E-08	4.12E-09	1.41E-08	0.00E+00	1.82E-08
4258	420864.27	3734344.73	4.44E-08	2.03E-07	4.44E-10	2.48E-07	6.09E-09	2.78E-08	0.00E+00	3.38E-08	3.74E-09	1.28E-08	0.00E+00	1.65E-08
4259	420864.23	3734335.03	4.04E-08	1.85E-07	4.04E-10	2.26E-07	5.54E-09	2.53E-08	0.00E+00	3.08E-08	3.40E-09	1.16E-08	0.00E+00	1.50E-08
4260	420864.2	3734325.33	3.69E-08	1.69E-07	3.69E-10	2.06E-07	5.06E-09	2.31E-08	0.00E+00	2.82E-08	3.11E-09	1.06E-08	0.00E+00	1.37E-08
4261	420864.16	3734315.63	3.38E-08	1.55E-07	3.38E-10	1.89E-07	4.64E-09	2.11E-08	0.00E+00	2.58E-08	2.84E-09	9.72E-09	0.00E+00	1.26E-08
4262	420864.13	3734305.93	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	0.00E+00	2.36E-08	2.61E-09	8.91E-09	0.00E+00	1.15E-08
4263	420884.27	3734344.66	3.91E-08	1.79E-07	3.91E-10	2.18E-07	5.36E-09	2.44E-08	0.00E+00	2.98E-08	3.29E-09	1.12E-08	0.00E+00	1.45E-08
4264	420884.23	3734334.96	3.59E-08	1.64E-07	3.59E-10	2.00E-07	4.92E-09	2.24E-08	0.00E+00	2.73E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
4265	420884.2	3734325.26	3.30E-08	1.51E-07	3.30E-10	1.84E-07	4.52E-09	2.06E-08	0.00E+00	2.52E-08	2.78E-09	9.48E-09	0.00E+00	1.23E-08
4266	420884.16	3734315.55	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.74E-09	0.00E+00	1.13E-08
4267	420884.13	3734305.85	2.81E-08	1.29E-07	2.81E-10	1.57E-07	3.85E-09	1.76E-08	0.00E+00	2.14E-08	2.36E-09	8.08E-09	0.00E+00	1.04E-08
4268	420884.09	3734296.15	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.56E-09	1.62E-08	0.00E+00	1.98E-08	2.19E-09	7.47E-09	0.00E+00	9.65E-09
4269	420882.92	3734445.49	1.34E-07	6.12E-07	1.34E-09	7.48E-07	1.84E-08	8.37E-08	0.00E+00	1.02E-07	1.13E-08	3.85E-08	0.00E+00	4.98E-08
4270	420904.41	3734383.39	4.96E-08	2.27E-07	4.96E-10	2.77E-07	6.80E-09	3.10E-08	0.00E+00	3.78E-08	4.18E-09	1.43E-08	0.00E+00	1.84E-08
4271	420904.38	3734373.69	4.50E-08	2.06E-07	4.49E-10	2.51E-07	6.16E-09	2.81E-08	0.00E+00	3.43E-08	3.78E-09	1.29E-08	0.00E+00	1.67E-08

4272	420904.27	3734344.59	3.45E-08	1.58E-07	3.45E-10	1.93E-07	4.73E-09	2.16E-08	0.00E+00	2.63E-08	2.90E-09	9.92E-09	0.00E+00	1.28E-08
4273	420904.23	3734334.88	3.19E-08	1.46E-07	3.18E-10	1.78E-07	4.37E-09	1.99E-08	0.00E+00	2.43E-08	2.68E-09	9.15E-09	0.00E+00	1.18E-08
4274	420904.2	3734325.18	2.95E-08	1.35E-07	2.95E-10	1.65E-07	4.04E-09	1.84E-08	0.00E+00	2.25E-08	2.48E-09	8.47E-09	0.00E+00	1.10E-08
4275	420904.16	3734315.48	2.74E-08	1.25E-07	2.73E-10	1.53E-07	3.75E-09	1.71E-08	0.00E+00	2.08E-08	2.30E-09	7.86E-09	0.00E+00	1.02E-08
4276	420904.12	3734305.78	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.48E-09	1.59E-08	0.00E+00	1.94E-08	2.14E-09	7.30E-09	0.00E+00	9.44E-09
4277	420904.09	3734296.08	2.37E-08	1.08E-07	2.36E-10	1.32E-07	3.24E-09	1.48E-08	0.00E+00	1.80E-08	1.99E-09	6.80E-09	0.00E+00	8.79E-09
4278	420903.46	3734444.11	1.05E-07	4.82E-07	1.05E-09	5.89E-07	1.45E-08	6.59E-08	0.00E+00	8.04E-08	8.87E-09	3.03E-08	0.00E+00	3.92E-08
4279	420924.41	3734383.32	4.30E-08	1.97E-07	4.30E-10	2.40E-07	5.89E-09	2.69E-08	0.00E+00	3.28E-08	3.62E-09	1.24E-08	0.00E+00	1.60E-08
4280	420924.38	3734373.62	3.92E-08	1.79E-07	3.92E-10	2.19E-07	5.37E-09	2.45E-08	0.00E+00	2.99E-08	3.30E-09	1.13E-08	0.00E+00	1.46E-08
4281	420924.27	3734344.51	3.05E-08	1.40E-07	3.05E-10	1.70E-07	4.19E-09	1.91E-08	0.00E+00	2.33E-08	2.57E-09	8.78E-09	0.00E+00	1.13E-08
4282	420924.23	3734334.81	2.83E-08	1.30E-07	2.83E-10	1.58E-07	3.88E-09	1.77E-08	0.00E+00	2.16E-08	2.38E-09	8.14E-09	0.00E+00	1.05E-08
4283	420924.2	3734325.11	2.64E-08	1.21E-07	2.64E-10	1.47E-07	3.61E-09	1.65E-08	0.00E+00	2.01E-08	2.22E-09	7.58E-09	0.00E+00	9.79E-09
4284	420924.16	3734315.41	2.46E-08	1.12E-07	2.46E-10	1.37E-07	3.37E-09	1.54E-08	0.00E+00	1.87E-08	2.07E-09	7.07E-09	0.00E+00	9.14E-09
4285	420924.12	3734305.7	2.30E-08	1.05E-07	2.30E-10	1.28E-07	3.15E-09	1.44E-08	0.00E+00	1.75E-08	1.93E-09	6.60E-09	0.00E+00	8.53E-09
4286	420924.09	3734296	2.15E-08	9.82E-08	2.15E-10	1.20E-07	2.95E-09	1.34E-08	0.00E+00	1.64E-08	1.81E-09	6.17E-09	0.00E+00	7.98E-09
4287	420922.58	3734446.16	8.95E-08	4.09E-07	8.95E-10	5.00E-07	1.23E-08	5.60E-08	0.00E+00	6.82E-08	7.53E-09	2.57E-08	0.00E+00	3.33E-08
4288	420904.36	3734490.5	1.84E-07	8.43E-07	1.84E-09	1.03E-06	2.53E-08	1.15E-07	0.00E+00	1.41E-07	1.55E-08	5.30E-08	0.00E+00	6.85E-08
4289	420944.41	3734383.25	3.75E-08	1.71E-07	3.75E-10	2.09E-07	5.14E-09	2.34E-08	0.00E+00	2.86E-08	3.15E-09	1.08E-08	0.00E+00	1.39E-08
4290	420944.38	3734373.54	3.44E-08	1.57E-07	3.43E-10	1.92E-07	4.71E-09	2.15E-08	0.00E+00	2.62E-08	2.89E-09	9.87E-09	0.00E+00	1.28E-08
4291	420944.27	3734344.44	2.72E-08	1.24E-07	2.71E-10	1.52E-07	3.72E-09	1.70E-08	0.00E+00	2.07E-08	2.28E-09	7.80E-09	0.00E+00	1.01E-08
4292	420944.23	3734334.74	2.53E-08	1.16E-07	2.53E-10	1.41E-07	3.47E-09	1.58E-08	0.00E+00	1.93E-08	2.13E-09	7.27E-09	0.00E+00	9.40E-09
4293	420944.2	3734325.03	2.36E-08	1.08E-07	2.36E-10	1.32E-07	3.24E-09	1.48E-08	0.00E+00	1.80E-08	1.99E-09	6.79E-09	0.00E+00	8.78E-09
4294	420944.16	3734315.33	2.21E-08	1.01E-07	2.21E-10	1.23E-07	3.03E-09	1.38E-08	0.00E+00	1.69E-08	1.86E-09	6.36E-09	0.00E+00	8.22E-09
4295	420944.12	3734305.63	2.08E-08	9.49E-08	2.07E-10	1.16E-07	2.84E-09	1.30E-08	0.00E+00	1.58E-08	1.75E-09	5.96E-09	0.00E+00	7.71E-09
4296	420944.09	3734295.93	1.95E-08	8.91E-08	1.95E-10	1.09E-07	2.67E-09	1.22E-08	0.00E+00	1.49E-08	1.64E-09	5.60E-09	0.00E+00	7.24E-09
4297	420943.07	3734444.9	7.31E-08	3.34E-07	7.31E-10	4.08E-07	1.00E-08	4.57E-08	0.00E+00	5.57E-08	6.15E-09	2.10E-08	0.00E+00	2.72E-08
4298	420964.41	3734383.17	3.29E-08	1.51E-07	3.29E-10	1.84E-07	4.51E-09	2.06E-08	0.00E+00	2.51E-08	2.77E-09	9.46E-09	0.00E+00	1.22E-08
4299	420964.38	3734373.47	3.03E-08	1.39E-07	3.03E-10	1.69E-07	4.16E-09	1.90E-08	0.00E+00	2.31E-08	2.55E-09	8.71E-09	0.00E+00	1.13E-08
4300	420964.27	3734344.36	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.52E-08	0.00E+00	1.85E-08	2.04E-09	6.97E-09	0.00E+00	9.01E-09
4301	420964.23	3734334.66	2.27E-08	1.04E-07	2.26E-10	1.26E-07	3.11E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.51E-09	0.00E+00	8.42E-09
4302	420964.2	3734324.96	2.12E-08	9.70E-08	2.12E-10	1.18E-07	2.91E-09	1.33E-08	0.00E+00	1.62E-08	1.79E-09	6.10E-09	0.00E+00	7.88E-09
4303	420964.16	3734315.26	1.99E-08	9.11E-08	1.99E-10	1.11E-07	2.73E-09	1.25E-08	0.00E+00	1.52E-08	1.68E-09	5.73E-09	0.00E+00	7.40E-09
4304	420964.12	3734305.56	1.88E-08	8.58E-08	1.88E-10	1.05E-07	2.57E-09	1.17E-08	0.00E+00	1.43E-08	1.58E-09	5.39E-09	0.00E+00	6.97E-09
4305	420964.09	3734295.85	1.77E-08	8.09E-08	1.77E-10	9.88E-08	2.43E-09	1.11E-08	0.00E+00	1.35E-08	1.49E-09	5.09E-09	0.00E+00	6.57E-09
4306	420943.93	3734491.38	1.20E-07	5.47E-07	1.20E-09	6.68E-07	1.64E-08	7.48E-08	0.00E+00	9.12E-08	1.01E-08	3.44E-08	0.00E+00	4.45E-08
4307	420940.25	3734500.35	1.35E-07	6.18E-07	1.35E-09	7.55E-07	1.85E-08	8.46E-08	0.00E+00	1.03E-07	1.14E-08	3.89E-08	0.00E+00	5.02E-08
4308	420887.62	3734574.23	3.83E-07	1.75E-06	3.82E-09	2.14E-06	5.25E-08	2.39E-07	0.00E+00	2.92E-07	3.22E-08	1.10E-07	0.00E+00	1.42E-07
4309	420807.09	3734607.68	8.74E-07	4.00E-06	8.74E-09	4.88E-06	1.20E-07	5.47E-07	0.00E+00	6.66E-07	7.35E-08	2.51E-07	0.00E+00	3.25E-07
4310	420964.74	3734489.35	9.58E-08	4.38E-07	9.57E-10	5.35E-07	1.31E-08	5.99E-08	0.00E+00	7.30E-08	8.06E-09	2.75E-08	0.00E+00	3.56E-08
4311	420902.33	3734588.12	3.28E-07	1.50E-06	3.27E-09	1.83E-06	4.49E-08	2.05E-07	0.00E+00	2.50E-07	2.76E-08	9.41E-08	0.00E+00	1.22E-07
4312	420823.39	3734620.91	6.78E-07	3.10E-06	6.77E-09	3.78E-06	9.29E-08	4.24E-07	0.00E+00	5.17E-07	5.70E-08	1.95E-07	0.00E+00	2.52E-07
4313	421004.41	3734383.02	2.59E-08	1.18E-07	2.59E-10	1.45E-07	3.55E-09	1.62E-08	0.00E+00	1.98E-08	2.18E-09	7.45E-09	0.00E+00	9.63E-09
4314	421004.38	3734373.32	2.40E-08	1.10E-07	2.40E-10	1.34E-07	3.29E-09	1.50E-08	0.00E+00	1.83E-08	2.02E-09	6.91E-09	0.00E+00	8.93E-09
4315	421004.27	3734344.22	1.96E-08	8.94E-08	1.95E-10	1.09E-07	2.68E-09	1.22E-08	0.00E+00	1.49E-08	1.64E-09	5.62E-09	0.00E+00	7.26E-09
4316	421004.23	3734334.51	1.84E-08	8.39E-08	1.84E-10	1.02E-07	2.52E-09	1.15E-08	0.00E+00	1.40E-08	1.54E-09	5.28E-09	0.00E+00	6.82E-09
4317	421004.2	3734324.81	1.73E-08	7.90E-08	1.73E-10	9.65E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.45E-09	4.97E-09	0.00E+00	6.42E-09
4318	421004.16	3734315.11	1.63E-08	7.46E-08	1.63E-10	9.11E-08	2.24E-09	1.02E-08	0.00E+00	1.24E-08	1.37E-09	4.69E-09	0.00E+00	6.06E-09
4319	421004.12	3734305.41	1.55E-08	7.06E-08	1.54E-10	8.62E-08	2.12E-09	9.66E-09	0.00E+00	1.18E-08	1.30E-09	4.44E-09	0.00E+00	5.74E-09
4320	421004.09	3734295.71	1.47E-08	6.70E-08	1.47E-10	8.19E-08	2.01E-09	9.17E-09	0.00E+00	1.12E-08	1.23E-09	4.21E-09	0.00E+00	5.45E-09
4321	421003.15	3734444.48	4.53E-08	2.07E-07	4.53E-10	2.53E-07	6.22E-09	2.83E-08	0.00E+00	3.46E-08	3.81E-09	1.30E-08	0.00E+00	1.68E-08
4322	420891.06	3734612.8	3.67E-07	1.68E-06	3.67E-09	2.05E-06	5.04E-08	2.30E-07	0.00E+00	2.80E-07	3.09E-08	1.06E-07	0.00E+00	1.36E-07
4323	420839.32	3734634.29	5.41E-07	2.47E-06	5.40E-09	3.02E-06	7.41E-08	3.38E-07	0.00E+00	4.12E-07	4.55E-08	1.55E-07	0.00E+00	2.01E-07
4324	421024.41	3734382.95	2.31E-08	1.06E-07	2.31E-10	1.29E-07	3.17E-09	1.45E-08	0.00E+00	1.76E-08	1.95E-09	6.65E-09	0.00E+00	8.60E-09
4325	421024.38	3734373.25	2.15E-08	9.84E-08	2.15E-10	1.20E-07	2.95E-09	1.35E-08	0.00E+00	1.64E-08	1.81E-09	6.18E-09	0.00E+00	7.99E-09
4326	421024.27	3734344.14	1.77E-08	8.08E-08	1.77E-10	9.86E-08	2.42E-09	1.10E-08	0.00E+00	1.35E-08	1.49E-09	5.08E-09	0.00E+00	6.56E-09
4327	421024.23	3734334.44	1.66E-08	7.60E-08	1.66E-10	9.28E-08	2.28E-09	1.04E-08	0.00E+00	1.27E-08	1.40E-09	4.78E-09	0.00E+00	6.18E-09
4328	421024.2	3734324.74	1.57E-08	7.18E-08	1.57E-10	8.76E-08	2.15E-09	9.81E-09	0.00E+00	1.20E-08	1.32E-09	4.51E-09	0.00E+00	5.83E-09
4329	421024.16	3734315.04	1.48E-08	6.79E-08	1.48E-10	8.29E-08	2.04E-09	9.28E-09	0.00E+00	1.13E-08	1.25E-09	4.27E-09	0.00E+00	5.52E-09
4330	421024.12	3734305.33	1.41E-08	6.44E-08	1.41E-10	7.86E-08	1.93E-09	8.81E-09	0.00E+00	1.07E-08	1.19E-09	4.05E-09	0.00E+00	5.23E-09
4331	421024.09	3734295.63	1.34E-08	6.13E-08	1.34E-10	7.48E-08	1.84E-09	8.38E-09	0.00E+00	1.02E-08	1.13E-09	3.85E-09	0.00E+00	4.98E-09
4332	421022.58	3734445.79	4.01E-08	1.83E-07	4.01E-10	2.24E-07	5.50E-09	2.51E-08	0.00E+00	3.06E-08	3.37E-09	1.15E-08	0.00E+00	1.49E-08
4333	421004.36	3734490.13	6.82E-08	3.12E-07	6.82E-10	3.81E-07	9.35E-09	4.27E-08	0.00E+00	5.20E-08	5.74E-09	1.96E-08	0.00E+00	2.53E-08
4334	420975.2	3734561.08	1.39E-07	6.35E-07	1.39E-09	7.76E-07	1.90E-08	8.69E-08	0.00E+00	1.06E-07	1.17E-08	3.99E-08	0.00E+00	5.16E-08
4335	420971.55	3734569.95	1.49E-07	6.80E-07	1.49E-09	8.30E-07	2.04E-08	9.30E-08	0.00E+00	1.13E-07	1.25E-08	4.27E-08	0.00E+00	5.53E-08
4336	420967.91	3734578.82	1.59E-07	7.25E-07	1.58E-09	8.85E-07	2.17E-08	9.91E-08	0.00E+00	1.21E-07	1.33E-08	4.56E-08	0.00E+00	5.89E-08
4337	420964.26	3734587.69	1.69E-07	7.73E-07	1.69E-09	9.43E-07	2.32E-08	1.06E-07	0.00E+00	1.29E-07	1.42E-08	4.86E-08	0.00E+00	6.28E-08
4338	420930.41	3734616.46	2.47E-07	1.13E-06	2.46E-09	1.38E-06	3.38E-08	1.54E-07	0.00E+00	1.88E-07	2.07E-08	7.09E-08	0.00E+00	9.16E-08
4339	420850.71	3734649.56	4.48E-07	2.05E-06	4.48E-09	2.50E-06	6.15E-08	2.80E-07	0.00E+00	3.42E-07	3.77E-08	1.29E-07	0.00E+00	1.67E-07
4340	421044.45	3734392.58	2.20E-08	1.01E-07	2.20E-10	1.23E-07	3.02E-09	1.38E-08	0.00E+00	1.68E-08	1.85E-09	6.34E-09	0.00E+00	8.19E-09
4341	421044.41	3734382.87	2.07E-08	9.48E-08	2.07E-10	1.16E-07	2.84E-09	1.30E-08	0.00E+00	1.58E-08	1.75E-09	5.96E-09	0.00E+00	7.71E-09
4342	421044.38	3734373.17	1.94E-08	8.86E-08	1.94E-10	1.08E-07	2.66E-09	1.21E-08	0.00E+00	1.48E-08	1.63E-09	5.57E-09	0.00E+00	7.20E-09
4343	421044.27	3734344.07	1.60E-08	7.32E-08	1.60E-10	8.93E-08	2.19E-09	1.00E-08	0.00E+00	1.22E-08	1.35E-09	4.60E-09	0.00E+00	5.95E-09
4344	421044.23	3734334.36	1.51E-08	6.90E-08	1.51E-10	8.43E-08	2.07E-09	9.44E-09	0.00E+00	1.15E-08	1.27E-09	4.34E-09	0.00E+00	5.61E-09
4345	421044.2	3734324.66	1.43E-08	6.53E-08	1.43E-10	7.97E-08	1.96E-09	8.93E-09	0.00E+00	1.09E-08	1.20E-09	4.10E-09	0.00E+00	5.30E-09
4346	421044.16	3734314.96	1.35E-08	6.19E-08	1.35E-10	7.56E-08	1.86E-09	8.46E-09	0.00E+00	1.03E-08	1.14E-09	3.89E-09	0.00E+00	5.03E-09

4347	421044.12	3734305.26	1.29E-08	5.88E-08	1.29E-10	7.18E-08	1.76E-09	8.04E-09	0.00E+00	9.81E-09	1.08E-09	3.70E-09	0.00E+00	4.78E-09
4348	421062.42	3734446.04	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.74E-09	0.00E+00	1.13E-08
4349	421055.07	3734463.9	3.73E-08	1.70E-07	3.72E-10	2.08E-07	5.11E-09	2.33E-08	0.00E+00	2.84E-08	3.13E-09	1.07E-08	0.00E+00	1.38E-08
4350	421051.4	3734472.84	4.12E-08	1.88E-07	4.11E-10	2.30E-07	5.64E-09	2.57E-08	0.00E+00	3.14E-08	3.46E-09	1.18E-08	0.00E+00	1.53E-08
4351	421047.73	3734481.77	4.54E-08	2.08E-07	4.54E-10	2.54E-07	6.23E-09	2.84E-08	0.00E+00	3.46E-08	3.82E-09	1.31E-08	0.00E+00	1.69E-08
4352	421044.06	3734490.71	5.00E-08	2.29E-07	5.00E-10	2.79E-07	6.86E-09	3.13E-08	0.00E+00	3.81E-08	4.21E-09	1.44E-08	0.00E+00	1.86E-08
4353	421014.69	3734562.18	9.90E-08	4.53E-07	9.89E-10	5.53E-07	1.36E-08	6.19E-08	0.00E+00	7.55E-08	8.33E-09	2.84E-08	0.00E+00	3.68E-08
4354	420992.66	3734615.79	1.41E-07	6.47E-07	1.41E-09	7.90E-07	1.94E-08	8.84E-08	0.00E+00	1.08E-07	1.19E-08	4.07E-08	0.00E+00	5.26E-08
4355	420988.98	3734624.73	1.48E-07	6.77E-07	1.48E-09	8.26E-07	2.03E-08	9.26E-08	0.00E+00	1.13E-07	1.25E-08	4.25E-08	0.00E+00	5.50E-08
4356	420958.55	3734644.77	1.93E-07	8.84E-07	1.93E-09	1.08E-06	2.65E-08	1.21E-07	0.00E+00	1.47E-07	1.63E-08	5.56E-08	0.00E+00	7.18E-08
4357	420878.26	3734678.12	3.16E-07	1.44E-06	3.16E-09	1.76E-06	4.33E-08	1.98E-07	0.00E+00	2.41E-07	2.66E-08	9.08E-08	0.00E+00	1.17E-07
4358	421052.96	3734566.22	7.49E-08	3.43E-07	7.49E-10	4.18E-07	1.03E-08	4.68E-08	0.00E+00	5.71E-08	6.30E-09	2.15E-08	0.00E+00	2.78E-08
4359	421049.39	3734574.92	8.00E-08	3.66E-07	7.99E-10	4.46E-07	1.10E-08	5.00E-08	0.00E+00	6.10E-08	6.73E-09	2.30E-08	0.00E+00	2.97E-08
4360	421045.82	3734583.62	8.51E-08	3.89E-07	8.50E-10	4.75E-07	1.17E-08	5.32E-08	0.00E+00	6.49E-08	7.16E-09	2.44E-08	0.00E+00	3.16E-08
4361	421042.24	3734592.31	9.02E-08	4.12E-07	9.01E-10	5.03E-07	1.24E-08	5.64E-08	0.00E+00	6.87E-08	7.59E-09	2.59E-08	0.00E+00	3.35E-08
4362	420987.6	3734672.71	1.53E-07	6.99E-07	1.53E-09	8.53E-07	2.09E-08	9.55E-08	0.00E+00	1.16E-07	1.29E-08	4.39E-08	0.00E+00	5.68E-08
4363	420961.55	3734683.53	1.80E-07	8.23E-07	1.80E-09	1.00E-06	2.47E-08	1.13E-07	0.00E+00	1.37E-07	1.51E-08	5.17E-08	0.00E+00	6.69E-08
4364	420909.44	3734705.17	2.31E-07	1.06E-06	2.31E-09	1.29E-06	3.17E-08	1.44E-07	0.00E+00	1.76E-07	1.94E-08	6.63E-08	0.00E+00	8.58E-08
4365	421124.45	3734392.28	1.51E-08	6.91E-08	1.51E-10	8.44E-08	2.07E-09	9.46E-09	0.00E+00	1.15E-08	1.27E-09	4.35E-09	0.00E+00	5.62E-09
4366	421124.41	3734382.58	1.42E-08	6.49E-08	1.42E-10	7.93E-08	1.95E-09	8.88E-09	0.00E+00	1.08E-08	1.19E-09	4.08E-09	0.00E+00	5.28E-09
4367	421124.38	3734372.88	1.34E-08	6.11E-08	1.34E-10	7.46E-08	1.83E-09	8.36E-09	0.00E+00	1.02E-08	1.12E-09	3.84E-09	0.00E+00	4.97E-09
4368	421124.3	3734353.47	1.19E-08	5.45E-08	1.19E-10	6.66E-08	1.63E-09	7.46E-09	0.00E+00	9.09E-09	1.00E-09	3.43E-09	0.00E+00	4.43E-09
4369	421124.27	3734343.77	1.13E-08	5.17E-08	1.13E-10	6.31E-08	1.55E-09	7.06E-09	0.00E+00	8.61E-09	9.50E-10	3.25E-09	0.00E+00	4.20E-09
4370	421124.23	3734334.07	1.07E-08	4.90E-08	1.07E-10	5.99E-08	1.47E-09	6.71E-09	0.00E+00	8.18E-09	9.02E-10	3.08E-09	0.00E+00	3.98E-09
4371	421124.2	3734324.37	1.02E-08	4.67E-08	1.02E-10	5.70E-08	1.40E-09	6.38E-09	0.00E+00	7.78E-09	8.59E-10	2.93E-09	0.00E+00	3.79E-09
4372	421124.16	3734314.66	9.73E-09	4.45E-08	9.73E-11	5.43E-08	1.33E-09	6.08E-09	0.00E+00	7.42E-09	8.19E-10	2.80E-09	0.00E+00	3.61E-09
4373	421124.12	3734304.96	9.30E-09	4.25E-08	9.29E-11	5.19E-08	1.27E-09	5.81E-09	0.00E+00	7.09E-09	7.82E-10	2.67E-09	0.00E+00	3.45E-09
4374	421124.09	3734295.26	8.90E-09	4.07E-08	8.89E-11	4.97E-08	1.22E-09	5.56E-09	0.00E+00	6.78E-09	7.48E-10	2.56E-09	0.00E+00	3.30E-09
4375	421142.84	3734444.72	1.92E-08	8.80E-08	1.92E-10	1.07E-07	2.64E-09	1.20E-08	0.00E+00	1.47E-08	1.62E-09	5.53E-09	0.00E+00	7.15E-09
4376	421135.63	3734462.25	2.24E-08	1.02E-07	2.24E-10	1.25E-07	3.07E-09	1.40E-08	0.00E+00	1.71E-08	1.88E-09	6.44E-09	0.00E+00	8.32E-09
4377	421132.03	3734471.01	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.35E-09	1.53E-08	0.00E+00	1.86E-08	2.05E-09	7.02E-09	0.00E+00	9.07E-09
4378	421128.43	3734479.78	2.66E-08	1.22E-07	2.66E-10	1.49E-07	3.65E-09	1.66E-08	0.00E+00	2.03E-08	2.24E-09	7.65E-09	0.00E+00	9.88E-09
4379	421124.83	3734488.54	2.90E-08	1.32E-07	2.90E-10	1.62E-07	3.97E-09	1.81E-08	0.00E+00	2.21E-08	2.44E-09	8.33E-09	0.00E+00	1.08E-08
4380	421088.81	3734576.19	6.11E-08	2.79E-07	6.11E-10	3.41E-07	8.37E-09	3.82E-08	0.00E+00	4.66E-08	5.14E-09	1.76E-08	0.00E+00	2.27E-08
4381	421085.21	3734584.95	6.50E-08	2.97E-07	6.50E-10	3.63E-07	8.91E-09	4.06E-08	0.00E+00	4.96E-08	5.47E-09	1.87E-08	0.00E+00	2.42E-08
4382	421081.61	3734593.71	6.89E-08	3.15E-07	6.89E-10	3.85E-07	9.45E-09	4.31E-08	0.00E+00	5.25E-08	5.80E-09	1.98E-08	0.00E+00	2.56E-08
4383	421078	3734602.48	7.28E-08	3.33E-07	7.28E-10	4.06E-07	9.98E-09	4.55E-08	0.00E+00	5.55E-08	6.12E-09	2.09E-08	0.00E+00	2.70E-08
4384	421074.4	3734611.24	7.66E-08	3.50E-07	7.65E-10	4.27E-07	1.05E-08	4.79E-08	0.00E+00	5.84E-08	6.44E-09	2.20E-08	0.00E+00	2.84E-08
4385	421033.23	3734693.76	1.10E-07	5.05E-07	1.10E-09	6.16E-07	1.51E-08	6.90E-08	0.00E+00	8.42E-08	9.29E-09	3.17E-08	0.00E+00	4.10E-08
4386	421024.48	3734697.39	1.17E-07	5.33E-07	1.17E-09	6.51E-07	1.60E-08	7.29E-08	0.00E+00	8.89E-08	9.81E-09	3.35E-08	0.00E+00	4.33E-08
4387	421015.73	3734701.03	1.23E-07	5.62E-07	1.23E-09	6.87E-07	1.69E-08	7.69E-08	0.00E+00	9.38E-08	1.03E-08	3.53E-08	0.00E+00	4.57E-08
4388	420989.48	3734711.93	1.42E-07	6.49E-07	1.42E-09	7.93E-07	1.95E-08	8.88E-08	0.00E+00	1.08E-07	1.19E-08	4.08E-08	0.00E+00	5.28E-08
4389	420980.73	3734715.56	1.48E-07	6.77E-07	1.48E-09	8.27E-07	2.03E-08	9.26E-08	0.00E+00	1.13E-07	1.25E-08	4.26E-08	0.00E+00	5.50E-08
4390	420971.98	3734719.2	1.54E-07	7.05E-07	1.54E-09	8.60E-07	2.11E-08	9.63E-08	0.00E+00	1.17E-07	1.30E-08	4.43E-08	0.00E+00	5.72E-08
4391	421164.3	3734353.32	1.02E-08	4.67E-08	1.02E-10	5.70E-08	1.40E-09	6.38E-09	0.00E+00	7.78E-09	8.58E-10	2.93E-09	0.00E+00	3.79E-09
4392	421164.27	3734343.62	9.69E-09	4.43E-08	9.69E-11	5.41E-08	1.33E-09	6.06E-09	0.00E+00	7.39E-09	8.15E-10	2.78E-09	0.00E+00	3.60E-09
4393	421164.23	3734333.92	9.22E-09	4.22E-08	9.22E-11	5.15E-08	1.26E-09	5.76E-09	0.00E+00	7.03E-09	7.76E-10	2.65E-09	0.00E+00	3.43E-09
4394	421164.2	3734324.22	8.79E-09	4.02E-08	8.78E-11	4.91E-08	1.20E-09	5.49E-09	0.00E+00	6.70E-09	7.39E-10	2.53E-09	0.00E+00	3.26E-09
4395	421164.16	3734314.52	8.39E-09	3.84E-08	8.39E-11	4.68E-08	1.15E-09	5.25E-09	0.00E+00	6.40E-09	7.06E-10	2.41E-09	0.00E+00	3.12E-09
4396	421164.12	3734304.81	8.03E-09	3.67E-08	8.03E-11	4.48E-08	1.10E-09	5.02E-09	0.00E+00	6.12E-09	6.76E-10	2.31E-09	0.00E+00	2.98E-09
4397	421164.09	3734295.11	7.70E-09	3.52E-08	7.70E-11	4.30E-08	1.06E-09	4.81E-09	0.00E+00	5.87E-09	6.48E-10	2.21E-09	0.00E+00	2.86E-09
4398	421182.7	3734444.91	1.64E-08	7.49E-08	1.64E-10	9.15E-08	2.25E-09	1.02E-08	0.00E+00	1.25E-08	1.38E-09	4.71E-09	0.00E+00	6.09E-09
4399	421175.45	3734462.55	1.89E-08	8.64E-08	1.89E-10	1.05E-07	2.59E-09	1.18E-08	0.00E+00	1.44E-08	1.59E-09	5.43E-09	0.00E+00	7.02E-09
4400	421171.82	3734471.37	2.04E-08	9.33E-08	2.04E-10	1.14E-07	2.80E-09	1.28E-08	0.00E+00	1.56E-08	1.72E-09	5.86E-09	0.00E+00	7.58E-09
4401	421168.2	3734480.19	2.20E-08	1.01E-07	2.20E-10	1.23E-07	3.02E-09	1.38E-08	0.00E+00	1.68E-08	1.85E-09	6.32E-09	0.00E+00	8.18E-09
4402	421164.57	3734489.01	2.37E-08	1.08E-07	2.37E-10	1.32E-07	3.25E-09	1.48E-08	0.00E+00	1.81E-08	1.99E-09	6.81E-09	0.00E+00	8.81E-09
4403	421131.95	3734568.4	4.42E-08	2.02E-07	4.42E-10	2.47E-07	6.06E-09	2.77E-08	0.00E+00	3.37E-08	3.72E-09	1.27E-08	0.00E+00	1.64E-08
4404	421128.32	3734577.22	4.72E-08	2.16E-07	4.72E-10	2.64E-07	6.48E-09	2.95E-08	0.00E+00	3.60E-08	3.97E-09	1.36E-08	0.00E+00	1.75E-08
4405	421124.7	3734586.04	5.03E-08	2.30E-07	5.02E-10	2.81E-07	6.89E-09	3.14E-08	0.00E+00	3.83E-08	4.23E-09	1.44E-08	0.00E+00	1.87E-08
4406	421121.07	3734594.86	5.34E-08	2.44E-07	5.33E-10	2.98E-07	7.32E-09	3.34E-08	0.00E+00	4.07E-08	4.49E-09	1.53E-08	0.00E+00	1.98E-08
4407	421117.45	3734603.68	5.65E-08	2.58E-07	5.65E-10	3.15E-07	7.74E-09	3.53E-08	0.00E+00	4.31E-08	4.75E-09	1.62E-08	0.00E+00	2.10E-08
4408	421061.51	3734722.01	9.23E-08	4.22E-07	9.23E-10	5.15E-07	1.27E-08	5.77E-08	0.00E+00	7.04E-08	7.77E-09	2.65E-08	0.00E+00	3.43E-08
4409	421052.71	3734725.67	9.69E-08	4.43E-07	9.69E-10	5.41E-07	1.33E-08	6.06E-08	0.00E+00	7.39E-08	8.15E-09	2.79E-08	0.00E+00	3.60E-08
4410	421043.9	3734729.33	1.01E-07	4.63E-07	1.01E-09	5.66E-07	1.39E-08	6.34E-08	0.00E+00	7.73E-08	8.53E-09	2.91E-08	0.00E+00	3.77E-08
4411	420964.63	3734762.25	1.37E-07	6.25E-07	1.37E-09	7.64E-07	1.88E-08	8.55E-08	0.00E+00	1.04E-07	1.15E-08	3.93E-08	0.00E+00	5.08E-08
4412	420955.83	3734765.91	1.40E-07	6.42E-07	1.40E-09	7.84E-07	1.92E-08	8.78E-08	0.00E+00	1.07E-07	1.18E-08	4.03E-08	0.00E+00	5.22E-08
4413	420947.02	3734769.56	1.44E-07	6.58E-07	1.44E-09	8.03E-07	1.97E-08	8.99E-08	0.00E+00	1.10E-07	1.21E-08	4.13E-08	0.00E+00	5.34E-08
4414	420938.21	3734773.22	1.47E-07	6.71E-07	1.47E-09	8.19E-07	2.01E-08	9.17E-08	0.00E+00	1.12E-07	1.23E-08	4.22E-08	0.00E+00	5.45E-08
4415	420929.4	3734776.88	1.49E-07	6.81E-07	1.49E-09	8.32E-07	2.04E-08	9.32E-08	0.00E+00	1.14E-07	1.25E-08	4.28E-08	0.00E+00	5.53E-08
4416	420920.6	3734780.54	1.50E-07	6.87E-07	1.50E-09	8.39E-07	2.06E-08	9.39E-08	0.00E+00	1.15E-07	1.26E-08	4.32E-08	0.00E+00	5.58E-08
4417	420911.79	3734784.19	1.51E-07	6.89E-07	1.51E-09	8.41E-07	2.07E-08	9.42E-08	0.00E+00	1.15E-07	1.27E-08	4.33E-08	0.00E+00	5.60E-08
4418	420902.98	3734787.85	1.50E-07	6.87E-07	1.50E-09	8.38E-07	2.06E-08	9.39E-08	0.00E+00	1.14E-07	1.26E-08	4.32E-08	0.00E+00	5.58E-08
4419	420894.17	3734791.51	1.49E-07	6.80E-07	1.49E-09	8.31E-07	2.04E-08	9.30E-08	0.00E+00	1.13E-07	1.25E-08	4.28E-08	0.00E+00	5.53E-08
4420	420885.37	3734795.17	1.46E-07	6.69E-07	1.46E-09	8.17E-07	2.01E-08	9.15E-08	0.00E+00	1.12E-07	1.23E-08	4.21E-08	0.00E+00	5.44E-08
4421	420876.56	3734798.82	1.43E-07	6.54E-07	1.43E-09	7.98E-07	1.96E-08	8.94E-08	0.00E+00	1.09E-07	1.20E-08	4.11E-08	0.00E+00	5.31E-08

4422	420867.75	3734802.48	1.39E-07	6.34E-07	1.39E-09	7.74E-07	1.90E-08	8.67E-08	0.00E+00	1.06E-07	1.17E-08	3.99E-08	0.00E+00	5.15E-08
4423	420858.95	3734806.14	1.33E-07	6.10E-07	1.33E-09	7.45E-07	1.83E-08	8.34E-08	0.00E+00	1.02E-07	1.12E-08	3.83E-08	0.00E+00	4.96E-08
4424	420850.14	3734809.8	1.27E-07	5.82E-07	1.27E-09	7.11E-07	1.75E-08	7.96E-08	0.00E+00	9.71E-08	1.07E-08	3.66E-08	0.00E+00	4.73E-08
4425	420841.33	3734813.46	1.21E-07	5.52E-07	1.21E-09	6.74E-07	1.65E-08	7.55E-08	0.00E+00	9.20E-08	1.02E-08	3.47E-08	0.00E+00	4.48E-08
4426	420832.52	3734817.11	1.14E-07	5.20E-07	1.14E-09	6.34E-07	1.56E-08	7.11E-08	0.00E+00	8.66E-08	9.56E-09	3.27E-08	0.00E+00	4.22E-08
4427	420823.72	3734820.77	1.06E-07	4.86E-07	1.06E-09	5.93E-07	1.46E-08	6.64E-08	0.00E+00	8.09E-08	8.93E-09	3.05E-08	0.00E+00	3.94E-08
4428	420814.91	3734824.43	9.85E-08	4.50E-07	9.85E-10	5.50E-07	1.35E-08	6.16E-08	0.00E+00	7.51E-08	8.29E-09	2.83E-08	0.00E+00	3.66E-08
4429	420806.1	3734828.09	9.07E-08	4.15E-07	9.07E-10	5.06E-07	1.24E-08	5.67E-08	0.00E+00	6.92E-08	7.63E-09	2.61E-08	0.00E+00	3.37E-08
4430	420797.29	3734831.74	8.30E-08	3.80E-07	8.30E-10	4.63E-07	1.14E-08	5.19E-08	0.00E+00	6.33E-08	6.98E-09	2.39E-08	0.00E+00	3.08E-08
4431	420788.49	3734835.4	7.55E-08	3.45E-07	7.54E-10	4.21E-07	1.03E-08	4.72E-08	0.00E+00	5.75E-08	6.35E-09	2.17E-08	0.00E+00	2.80E-08
4432	420779.68	3734839.06	6.82E-08	3.12E-07	6.82E-10	3.81E-07	9.35E-09	4.26E-08	0.00E+00	5.20E-08	5.74E-09	1.96E-08	0.00E+00	2.53E-08
4433	420770.87	3734842.72	6.14E-08	2.81E-07	6.13E-10	3.43E-07	8.41E-09	3.84E-08	0.00E+00	4.68E-08	5.16E-09	1.76E-08	0.00E+00	2.28E-08
4434	420762.06	3734846.37	5.49E-08	2.51E-07	5.49E-10	3.07E-07	7.53E-09	3.43E-08	0.00E+00	4.19E-08	4.62E-09	1.58E-08	0.00E+00	2.04E-08
4435	420753.26	3734850.03	4.89E-08	2.24E-07	4.89E-10	2.73E-07	6.70E-09	3.06E-08	0.00E+00	3.73E-08	4.11E-09	1.41E-08	0.00E+00	1.82E-08
4436	421204.45	3734391.98	1.09E-08	4.97E-08	1.09E-10	6.07E-08	1.49E-09	6.80E-09	0.00E+00	8.29E-09	9.14E-10	3.12E-09	0.00E+00	4.04E-09
4437	421204.41	3734382.28	1.03E-08	4.70E-08	1.03E-10	5.74E-08	1.41E-09	6.43E-09	0.00E+00	7.84E-09	8.66E-10	2.96E-09	0.00E+00	3.82E-09
4438	421204.37	3734372.58	9.75E-09	4.46E-08	9.75E-11	5.44E-08	1.34E-09	6.10E-09	0.00E+00	7.43E-09	8.21E-10	2.80E-09	0.00E+00	3.62E-09
4439	421204.3	3734353.18	8.80E-09	4.02E-08	8.79E-11	4.91E-08	1.21E-09	5.50E-09	0.00E+00	6.71E-09	7.40E-10	2.53E-09	0.00E+00	3.27E-09
4440	421204.27	3734343.47	8.37E-09	3.83E-08	8.37E-11	4.67E-08	1.15E-09	5.24E-09	0.00E+00	6.38E-09	7.05E-10	2.41E-09	0.00E+00	3.11E-09
4441	421204.23	3734333.77	7.99E-09	3.65E-08	7.99E-11	4.46E-08	1.10E-09	5.00E-09	0.00E+00	6.09E-09	6.72E-10	2.30E-09	0.00E+00	2.97E-09
4442	421204.19	3734324.07	7.64E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.77E-09	0.00E+00	5.82E-09	6.42E-10	2.19E-09	0.00E+00	2.84E-09
4443	421204.16	3734314.37	7.31E-09	3.34E-08	7.30E-11	4.08E-08	1.00E-09	4.57E-09	0.00E+00	5.57E-09	6.15E-10	2.10E-09	0.00E+00	2.71E-09
4444	421204.12	3734304.67	7.01E-09	3.20E-08	7.00E-11	3.91E-08	9.61E-10	4.38E-09	0.00E+00	5.34E-09	5.90E-10	2.01E-09	0.00E+00	2.60E-09
4445	421204.09	3734294.96	6.73E-09	3.08E-08	6.73E-11	3.76E-08	9.23E-10	4.21E-09	0.00E+00	5.13E-09	5.66E-10	1.93E-09	0.00E+00	2.50E-09
4446	421222.58	3734445.05	1.38E-08	6.30E-08	1.38E-10	7.69E-08	1.89E-09	8.61E-09	0.00E+00	1.05E-08	1.16E-09	3.96E-09	0.00E+00	5.12E-09
4447	421215.29	3734462.79	1.58E-08	7.21E-08	1.58E-10	8.80E-08	2.16E-09	9.86E-09	0.00E+00	1.20E-08	1.33E-09	4.53E-09	0.00E+00	5.86E-09
4448	421211.64	3734471.65	1.69E-08	7.73E-08	1.69E-10	9.43E-08	2.32E-09	1.06E-08	0.00E+00	1.29E-08	1.42E-09	4.86E-09	0.00E+00	6.28E-09
4449	421208	3734480.52	1.81E-08	8.28E-08	1.81E-10	1.01E-07	2.48E-09	1.13E-08	0.00E+00	1.38E-08	1.52E-09	5.21E-09	0.00E+00	6.73E-09
4450	421204.35	3734489.39	1.94E-08	8.88E-08	1.94E-10	1.08E-07	2.66E-09	1.21E-08	0.00E+00	1.48E-08	1.63E-09	5.58E-09	0.00E+00	7.21E-09
4451	421171.55	3734569.21	3.46E-08	1.58E-07	3.45E-10	1.93E-07	4.74E-09	2.16E-08	0.00E+00	2.63E-08	2.91E-09	9.93E-09	0.00E+00	1.28E-08
4452	421167.91	3734578.08	3.67E-08	1.68E-07	3.67E-10	2.05E-07	5.03E-09	2.29E-08	0.00E+00	2.80E-08	3.09E-09	1.05E-08	0.00E+00	1.36E-08
4453	421164.26	3734586.95	3.90E-08	1.78E-07	3.90E-10	2.18E-07	5.35E-09	2.44E-08	0.00E+00	2.98E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
4454	421160.62	3734595.82	4.15E-08	1.90E-07	4.14E-10	2.31E-07	5.68E-09	2.59E-08	0.00E+00	3.16E-08	3.49E-09	1.19E-08	0.00E+00	1.54E-08
4455	421156.97	3734604.69	4.39E-08	2.01E-07	4.39E-10	2.45E-07	6.02E-09	2.75E-08	0.00E+00	3.35E-08	3.70E-09	1.26E-08	0.00E+00	1.63E-08
4456	421153.33	3734613.55	4.64E-08	2.12E-07	4.63E-10	2.59E-07	6.35E-09	2.90E-08	0.00E+00	3.53E-08	3.90E-09	1.33E-08	0.00E+00	1.72E-08
4457	421149.68	3734622.42	4.88E-08	2.23E-07	4.87E-10	2.72E-07	6.68E-09	3.05E-08	0.00E+00	3.72E-08	4.10E-09	1.40E-08	0.00E+00	1.81E-08
4458	421146.04	3734631.29	5.12E-08	2.34E-07	5.11E-10	2.86E-07	7.01E-09	3.20E-08	0.00E+00	3.90E-08	4.30E-09	1.47E-08	0.00E+00	1.90E-08
4459	421142.4	3734640.16	5.35E-08	2.45E-07	5.35E-10	2.99E-07	7.34E-09	3.35E-08	0.00E+00	4.08E-08	4.50E-09	1.54E-08	0.00E+00	1.99E-08
4460	421138.75	3734649.03	5.57E-08	2.55E-07	5.57E-10	3.11E-07	7.64E-09	3.48E-08	0.00E+00	4.25E-08	4.69E-09	1.60E-08	0.00E+00	2.07E-08
4461	421135.11	3734657.9	5.78E-08	2.64E-07	5.77E-10	3.22E-07	7.92E-09	3.61E-08	0.00E+00	4.40E-08	4.86E-09	1.66E-08	0.00E+00	2.15E-08
4462	421131.46	3734666.77	5.98E-08	2.73E-07	5.97E-10	3.34E-07	8.19E-09	3.74E-08	0.00E+00	4.56E-08	5.03E-09	1.72E-08	0.00E+00	2.22E-08
4463	421127.82	3734675.64	6.18E-08	2.83E-07	6.18E-10	3.45E-07	8.48E-09	3.87E-08	0.00E+00	4.71E-08	5.20E-09	1.78E-08	0.00E+00	2.30E-08
4464	421124.17	3734684.51	6.38E-08	2.92E-07	6.38E-10	3.56E-07	8.75E-09	3.99E-08	0.00E+00	4.87E-08	5.37E-09	1.83E-08	0.00E+00	2.37E-08
4465	421120.53	3734693.37	6.57E-08	3.00E-07	6.57E-10	3.67E-07	9.01E-09	4.11E-08	0.00E+00	5.01E-08	5.53E-09	1.89E-08	0.00E+00	2.44E-08
4466	421089.8	3734750.26	7.79E-08	3.56E-07	7.78E-10	4.35E-07	1.07E-08	4.87E-08	0.00E+00	5.94E-08	6.55E-09	2.24E-08	0.00E+00	2.89E-08
4467	421080.95	3734753.94	8.11E-08	3.71E-07	8.11E-10	4.53E-07	1.11E-08	5.07E-08	0.00E+00	6.18E-08	6.83E-09	2.33E-08	0.00E+00	3.01E-08
4468	421072.09	3734757.62	8.44E-08	3.86E-07	8.44E-10	4.71E-07	1.16E-08	5.28E-08	0.00E+00	6.44E-08	7.10E-09	2.43E-08	0.00E+00	3.14E-08
4469	421045.53	3734768.65	9.32E-08	4.26E-07	9.32E-10	5.20E-07	1.28E-08	5.83E-08	0.00E+00	7.11E-08	7.84E-09	2.68E-08	0.00E+00	3.46E-08
4470	421036.67	3734772.33	9.61E-08	4.39E-07	9.60E-10	5.36E-07	1.32E-08	6.01E-08	0.00E+00	7.32E-08	8.08E-09	2.76E-08	0.00E+00	3.57E-08
4471	421027.82	3734776.01	9.89E-08	4.52E-07	9.89E-10	5.52E-07	1.36E-08	6.18E-08	0.00E+00	7.54E-08	8.32E-09	2.84E-08	0.00E+00	3.67E-08
4472	420992.4	3734790.72	1.10E-07	5.02E-07	1.10E-09	6.12E-07	1.50E-08	6.86E-08	0.00E+00	8.36E-08	9.23E-09	3.15E-08	0.00E+00	4.08E-08
4473	420983.54	3734794.4	1.12E-07	5.14E-07	1.12E-09	6.27E-07	1.54E-08	7.02E-08	0.00E+00	8.56E-08	9.45E-09	3.23E-08	0.00E+00	4.17E-08
4474	420974.69	3734798.07	1.15E-07	5.25E-07	1.15E-09	6.41E-07	1.57E-08	7.18E-08	0.00E+00	8.75E-08	9.66E-09	3.30E-08	0.00E+00	4.26E-08
4475	420965.83	3734801.75	1.17E-07	5.34E-07	1.17E-09	6.52E-07	1.60E-08	7.31E-08	0.00E+00	8.91E-08	9.83E-09	3.36E-08	0.00E+00	4.34E-08
4476	420956.98	3734805.43	1.19E-07	5.42E-07	1.19E-09	6.62E-07	1.63E-08	7.42E-08	0.00E+00	9.04E-08	9.98E-09	3.41E-08	0.00E+00	4.41E-08
4477	420948.12	3734809.11	1.20E-07	5.49E-07	1.20E-09	6.70E-07	1.65E-08	7.51E-08	0.00E+00	9.15E-08	1.01E-08	3.45E-08	0.00E+00	4.46E-08
4478	420939.26	3734812.78	1.21E-07	5.53E-07	1.21E-09	6.76E-07	1.66E-08	7.57E-08	0.00E+00	9.23E-08	1.02E-08	3.48E-08	0.00E+00	4.50E-08
4479	420930.41	3734816.46	1.21E-07	5.55E-07	1.21E-09	6.77E-07	1.66E-08	7.59E-08	0.00E+00	9.25E-08	1.02E-08	3.49E-08	0.00E+00	4.51E-08
4480	420921.55	3734820.14	1.21E-07	5.53E-07	1.21E-09	6.75E-07	1.66E-08	7.56E-08	0.00E+00	9.21E-08	1.02E-08	3.47E-08	0.00E+00	4.49E-08
4481	420912.7	3734823.82	1.20E-07	5.48E-07	1.20E-09	6.68E-07	1.64E-08	7.49E-08	0.00E+00	9.13E-08	1.01E-08	3.44E-08	0.00E+00	4.45E-08
4482	420903.84	3734827.49	1.18E-07	5.39E-07	1.18E-09	6.59E-07	1.62E-08	7.38E-08	0.00E+00	8.99E-08	9.93E-09	3.39E-08	0.00E+00	4.38E-08
4483	420894.99	3734831.17	1.15E-07	5.28E-07	1.15E-09	6.44E-07	1.58E-08	7.22E-08	0.00E+00	8.80E-08	9.71E-09	3.32E-08	0.00E+00	4.29E-08
4484	420886.13	3734834.85	1.12E-07	5.13E-07	1.12E-09	6.26E-07	1.54E-08	7.02E-08	0.00E+00	8.55E-08	9.44E-09	3.22E-08	0.00E+00	4.17E-08
4485	420877.28	3734838.53	1.08E-07	4.96E-07	1.08E-09	6.05E-07	1.49E-08	6.78E-08	0.00E+00	8.26E-08	9.12E-09	3.12E-08	0.00E+00	4.03E-08
4486	420868.42	3734842.2	1.04E-07	4.76E-07	1.04E-09	5.81E-07	1.43E-08	6.51E-08	0.00E+00	7.93E-08	8.76E-09	2.99E-08	0.00E+00	3.87E-08
4487	420859.57	3734845.88	9.93E-08	4.54E-07	9.92E-10	5.54E-07	1.36E-08	6.21E-08	0.00E+00	7.57E-08	8.35E-09	2.85E-08	0.00E+00	3.69E-08
4488	420850.71	3734849.56	9.41E-08	4.30E-07	9.40E-10	5.25E-07	1.29E-08	5.88E-08	0.00E+00	7.17E-08	7.92E-09	2.70E-08	0.00E+00	3.50E-08
4489	420841.86	3734853.24	8.86E-08	4.05E-07	8.86E-10	4.95E-07	1.21E-08	5.54E-08	0.00E+00	6.75E-08	7.45E-09	2.55E-08	0.00E+00	3.29E-08
4490	420833	3734856.91	8.29E-08	3.79E-07	8.29E-10	4.63E-07	1.14E-08	5.18E-08	0.00E+00	6.32E-08	6.98E-09	2.38E-08	0.00E+00	3.08E-08
4491	420824.15	3734860.59	7.71E-08	3.53E-07	7.71E-10	4.31E-07	1.06E-08	4.82E-08	0.00E+00	5.88E-08	6.49E-09	2.22E-08	0.00E+00	2.86E-08
4492	420815.29	3734864.27	7.13E-08	3.26E-07	7.13E-10	3.98E-07	9.77E-09	4.46E-08	0.00E+00	5.43E-08	6.00E-09	2.05E-08	0.00E+00	2.65E-08
4493	420806.44	3734867.95	6.55E-08	3.00E-07	6.55E-10	3.66E-07	8.99E-09	4.10E-08	0.00E+00	5.00E-08	5.51E-09	1.88E-08	0.00E+00	2.43E-08
4494	420797.58	3734871.62	5.99E-08	2.74E-07	5.99E-10	3.35E-07	8.22E-09	3.75E-08	0.00E+00	4.57E-08	5.04E-09	1.72E-08	0.00E+00	2.23E-08
4495	420788.73	3734875.3	5.45E-08	2.49E-07	5.45E-10	3.04E-07	7.48E-09	3.41E-08	0.00E+00	4.16E-08	4.59E-09	1.57E-08	0.00E+00	2.03E-08
4496	420779.87	3734878.98	4.94E-08	2.26E-07	4.94E-10	2.76E-07	6.77E-09	3.09E-08	0.00E+00	3.77E-08	4.16E-09	1.42E-08	0.00E+00	1.84E-08

4497	420771.02	3734882.66	4.44E-08	2.03E-07	4.44E-10	2.48E-07	6.09E-09	2.78E-08	0.00E+00	3.38E-08	3.74E-09	1.28E-08	0.00E+00	1.65E-08
4498	420762.16	3734886.33	3.98E-08	1.82E-07	3.98E-10	2.22E-07	5.45E-09	2.49E-08	0.00E+00	3.03E-08	3.35E-09	1.14E-08	0.00E+00	1.48E-08
4499	420753.31	3734890.01	3.56E-08	1.63E-07	3.56E-10	1.99E-07	4.88E-09	2.23E-08	0.00E+00	2.71E-08	3.00E-09	1.02E-08	0.00E+00	1.32E-08
4500	421262.48	3734445.15	1.17E-08	5.35E-08	1.17E-10	6.54E-08	1.61E-09	7.32E-09	0.00E+00	8.93E-09	9.85E-10	3.37E-09	0.00E+00	4.35E-09
4501	421258.81	3734454.06	1.25E-08	5.71E-08	1.25E-10	6.97E-08	1.71E-09	7.81E-09	0.00E+00	9.52E-09	1.05E-09	3.59E-09	0.00E+00	4.64E-09
4502	421255.15	3734462.97	1.33E-08	6.09E-08	1.33E-10	7.43E-08	1.83E-09	8.32E-09	0.00E+00	1.01E-08	1.12E-09	3.83E-09	0.00E+00	4.95E-09
4503	421251.49	3734471.88	1.42E-08	6.49E-08	1.42E-10	7.93E-08	1.95E-09	8.88E-09	0.00E+00	1.08E-08	1.19E-09	4.08E-09	0.00E+00	5.28E-09
4504	421207.55	3734578.8	2.93E-08	1.34E-07	2.93E-10	1.64E-07	4.02E-09	1.83E-08	0.00E+00	2.24E-08	2.47E-09	8.43E-09	0.00E+00	1.09E-08
4505	421203.89	3734587.71	3.11E-08	1.42E-07	3.10E-10	1.73E-07	4.26E-09	1.94E-08	0.00E+00	2.37E-08	2.61E-09	8.93E-09	0.00E+00	1.15E-08
4506	421200.23	3734596.62	3.28E-08	1.50E-07	3.28E-10	1.83E-07	4.50E-09	2.05E-08	0.00E+00	2.50E-08	2.76E-09	9.43E-09	0.00E+00	1.22E-08
4507	421196.57	3734605.53	3.47E-08	1.59E-07	3.47E-10	1.94E-07	4.76E-09	2.17E-08	0.00E+00	2.65E-08	2.92E-09	9.99E-09	0.00E+00	1.29E-08
4508	421192.91	3734614.44	3.67E-08	1.68E-07	3.66E-10	2.05E-07	5.03E-09	2.29E-08	0.00E+00	2.79E-08	3.08E-09	1.05E-08	0.00E+00	1.36E-08
4509	421189.24	3734623.35	3.86E-08	1.76E-07	3.85E-10	2.15E-07	5.28E-09	2.41E-08	0.00E+00	2.94E-08	3.24E-09	1.11E-08	0.00E+00	1.43E-08
4510	421185.58	3734632.26	4.04E-08	1.85E-07	4.04E-10	2.26E-07	5.54E-09	2.53E-08	0.00E+00	3.08E-08	3.40E-09	1.16E-08	0.00E+00	1.50E-08
4511	421181.92	3734641.17	4.23E-08	1.94E-07	4.23E-10	2.36E-07	5.81E-09	2.65E-08	0.00E+00	3.23E-08	3.56E-09	1.22E-08	0.00E+00	1.57E-08
4512	421178.26	3734650.08	4.43E-08	2.02E-07	4.42E-10	2.47E-07	6.07E-09	2.77E-08	0.00E+00	3.37E-08	3.72E-09	1.27E-08	0.00E+00	1.64E-08
4513	421174.6	3734658.99	4.61E-08	2.11E-07	4.61E-10	2.57E-07	6.32E-09	2.88E-08	0.00E+00	3.52E-08	3.88E-09	1.33E-08	0.00E+00	1.71E-08
4514	421170.94	3734667.9	4.79E-08	2.19E-07	4.79E-10	2.68E-07	6.57E-09	3.00E-08	0.00E+00	3.65E-08	4.03E-09	1.38E-08	0.00E+00	1.78E-08
4515	421167.27	3734676.81	4.97E-08	2.27E-07	4.97E-10	2.78E-07	6.82E-09	3.11E-08	0.00E+00	3.79E-08	4.18E-09	1.43E-08	0.00E+00	1.85E-08
4516	421163.61	3734685.72	5.15E-08	2.36E-07	5.15E-10	2.88E-07	7.06E-09	3.22E-08	0.00E+00	3.93E-08	4.34E-09	1.48E-08	0.00E+00	1.91E-08
4517	421159.95	3734694.63	5.33E-08	2.44E-07	5.32E-10	2.97E-07	7.30E-09	3.33E-08	0.00E+00	4.06E-08	4.48E-09	1.53E-08	0.00E+00	1.98E-08
4518	421156.29	3734703.54	5.49E-08	2.51E-07	5.49E-10	3.06E-07	7.53E-09	3.43E-08	0.00E+00	4.18E-08	4.62E-09	1.58E-08	0.00E+00	2.04E-08
4519	421152.63	3734712.45	5.64E-08	2.58E-07	5.64E-10	3.15E-07	7.73E-09	3.53E-08	0.00E+00	4.30E-08	4.75E-09	1.62E-08	0.00E+00	2.10E-08
4520	421148.97	3734721.36	5.79E-08	2.65E-07	5.79E-10	3.23E-07	7.94E-09	3.62E-08	0.00E+00	4.41E-08	4.87E-09	1.66E-08	0.00E+00	2.15E-08
4521	421073.62	3734796.99	7.83E-08	3.58E-07	7.83E-10	4.37E-07	1.07E-08	4.90E-08	0.00E+00	5.97E-08	6.59E-09	2.25E-08	0.00E+00	2.91E-08
4522	421064.72	3734800.68	8.07E-08	3.69E-07	8.06E-10	4.50E-07	1.11E-08	5.04E-08	0.00E+00	6.15E-08	6.79E-09	2.32E-08	0.00E+00	3.00E-08
4523	421055.82	3734804.38	8.30E-08	3.80E-07	8.30E-10	4.63E-07	1.14E-08	5.19E-08	0.00E+00	6.33E-08	6.99E-09	2.39E-08	0.00E+00	3.08E-08
4524	421020.24	3734819.15	9.08E-08	4.15E-07	9.08E-10	5.07E-07	1.24E-08	5.68E-08	0.00E+00	6.92E-08	7.64E-09	2.61E-08	0.00E+00	3.37E-08
4525	420993.55	3734830.24	9.56E-08	4.37E-07	9.56E-10	5.34E-07	1.31E-08	5.98E-08	0.00E+00	7.29E-08	8.05E-09	2.75E-08	0.00E+00	3.55E-08
4526	420984.65	3734833.93	9.70E-08	4.44E-07	9.70E-10	5.42E-07	1.33E-08	6.07E-08	0.00E+00	7.40E-08	8.16E-09	2.79E-08	0.00E+00	3.60E-08
4527	420975.76	3734837.63	9.82E-08	4.49E-07	9.82E-10	5.48E-07	1.35E-08	6.14E-08	0.00E+00	7.49E-08	8.26E-09	2.82E-08	0.00E+00	3.65E-08
4528	420966.86	3734841.32	9.91E-08	4.53E-07	9.90E-10	5.53E-07	1.36E-08	6.19E-08	0.00E+00	7.55E-08	8.33E-09	2.85E-08	0.00E+00	3.68E-08
4529	420957.96	3734845.02	9.95E-08	4.55E-07	9.95E-10	5.56E-07	1.36E-08	6.22E-08	0.00E+00	7.59E-08	8.37E-09	2.86E-08	0.00E+00	3.70E-08
4530	420949.07	3734848.71	9.96E-08	4.55E-07	9.95E-10	5.56E-07	1.37E-08	6.23E-08	0.00E+00	7.59E-08	8.38E-09	2.86E-08	0.00E+00	3.70E-08
4531	420940.17	3734852.41	9.92E-08	4.53E-07	9.91E-10	5.54E-07	1.36E-08	6.20E-08	0.00E+00	7.56E-08	8.34E-09	2.85E-08	0.00E+00	3.68E-08
4532	420931.27	3734856.1	9.83E-08	4.50E-07	9.83E-10	5.49E-07	1.35E-08	6.15E-08	0.00E+00	7.49E-08	8.27E-09	2.83E-08	0.00E+00	3.65E-08
4533	420922.38	3734859.8	9.69E-08	4.43E-07	9.69E-10	5.41E-07	1.33E-08	6.06E-08	0.00E+00	7.39E-08	8.16E-09	2.79E-08	0.00E+00	3.60E-08
4534	420913.48	3734863.49	9.51E-08	4.35E-07	9.50E-10	5.31E-07	1.30E-08	5.94E-08	0.00E+00	7.25E-08	8.00E-09	2.73E-08	0.00E+00	3.53E-08
4535	420904.59	3734867.19	9.27E-08	4.24E-07	9.26E-10	5.17E-07	1.27E-08	5.80E-08	0.00E+00	7.07E-08	7.80E-09	2.66E-08	0.00E+00	3.44E-08
4536	420895.69	3734870.88	8.99E-08	4.11E-07	8.98E-10	5.02E-07	1.23E-08	5.62E-08	0.00E+00	6.85E-08	7.56E-09	2.58E-08	0.00E+00	3.34E-08
4537	420886.79	3734874.58	8.66E-08	3.96E-07	8.65E-10	4.83E-07	1.19E-08	5.41E-08	0.00E+00	6.60E-08	7.29E-09	2.49E-08	0.00E+00	3.22E-08
4538	420877.9	3734878.27	8.30E-08	3.79E-07	8.30E-10	4.63E-07	1.14E-08	5.19E-08	0.00E+00	6.33E-08	6.98E-09	2.38E-08	0.00E+00	3.08E-08
4539	420869	3734881.96	7.91E-08	3.61E-07	7.90E-10	4.41E-07	1.08E-08	4.94E-08	0.00E+00	6.03E-08	6.65E-09	2.27E-08	0.00E+00	2.94E-08
4540	420860.1	3734885.66	7.49E-08	3.42E-07	7.48E-10	4.18E-07	1.03E-08	4.68E-08	0.00E+00	5.71E-08	6.30E-09	2.15E-08	0.00E+00	2.78E-08
4541	420851.21	3734889.35	7.05E-08	3.22E-07	7.04E-10	3.93E-07	9.66E-09	4.41E-08	0.00E+00	5.37E-08	5.93E-09	2.03E-08	0.00E+00	2.62E-08
4542	420842.31	3734893.05	6.60E-08	3.02E-07	6.59E-10	3.68E-07	9.04E-09	4.13E-08	0.00E+00	5.03E-08	5.55E-09	1.90E-08	0.00E+00	2.45E-08
4543	420833.41	3734896.74	6.14E-08	2.81E-07	6.14E-10	3.43E-07	8.42E-09	3.84E-08	0.00E+00	4.68E-08	5.17E-09	1.77E-08	0.00E+00	2.28E-08
4544	420824.52	3734900.44	5.69E-08	2.60E-07	5.69E-10	3.18E-07	7.80E-09	3.56E-08	0.00E+00	4.34E-08	4.79E-09	1.63E-08	0.00E+00	2.11E-08
4545	420815.62	3734904.13	5.24E-08	2.40E-07	5.24E-10	2.93E-07	7.19E-09	3.28E-08	0.00E+00	4.00E-08	4.41E-09	1.51E-08	0.00E+00	1.95E-08
4546	420806.72	3734907.83	4.81E-08	2.20E-07	4.81E-10	2.69E-07	6.60E-09	3.01E-08	0.00E+00	3.67E-08	4.05E-09	1.38E-08	0.00E+00	1.79E-08
4547	420797.83	3734911.52	4.42E-08	2.02E-07	4.41E-10	2.47E-07	6.05E-09	2.76E-08	0.00E+00	3.37E-08	3.72E-09	1.27E-08	0.00E+00	1.64E-08
4548	420788.93	3734915.22	4.04E-08	1.85E-07	4.04E-10	2.26E-07	5.54E-09	2.53E-08	0.00E+00	3.08E-08	3.40E-09	1.16E-08	0.00E+00	1.50E-08
4549	420780.04	3734918.91	3.69E-08	1.69E-07	3.69E-10	2.06E-07	5.06E-09	2.31E-08	0.00E+00	2.81E-08	3.10E-09	1.06E-08	0.00E+00	1.37E-08
4550	420771.14	3734922.61	3.34E-08	1.53E-07	3.34E-10	1.87E-07	4.58E-09	2.09E-08	0.00E+00	2.55E-08	2.81E-09	9.60E-09	0.00E+00	1.24E-08
4551	420762.24	3734926.3	3.02E-08	1.38E-07	3.02E-10	1.69E-07	4.14E-09	1.89E-08	0.00E+00	2.30E-08	2.54E-09	8.68E-09	0.00E+00	1.12E-08
4552	420753.35	3734930	2.73E-08	1.25E-07	2.73E-10	1.52E-07	3.74E-09	1.71E-08	0.00E+00	2.08E-08	2.30E-09	7.84E-09	0.00E+00	1.01E-08
4553	421284.45	3734391.69	8.11E-09	3.71E-08	8.10E-11	4.53E-08	1.11E-09	5.07E-09	0.00E+00	6.18E-09	6.82E-10	2.33E-09	0.00E+00	3.01E-09
4554	421284.41	3734381.98	7.71E-09	3.53E-08	7.71E-11	4.31E-08	1.06E-09	4.82E-09	0.00E+00	5.88E-09	6.49E-10	2.22E-09	0.00E+00	2.87E-09
4555	421284.37	3734372.28	7.35E-09	3.36E-08	7.35E-11	4.10E-08	1.01E-09	4.59E-09	0.00E+00	5.60E-09	6.18E-10	2.11E-09	0.00E+00	2.73E-09
4556	421284.34	3734362.58	7.04E-09	3.22E-08	7.03E-11	3.93E-08	9.65E-10	4.40E-09	0.00E+00	5.37E-09	5.92E-10	2.02E-09	0.00E+00	2.61E-09
4557	421284.3	3734352.88	6.76E-09	3.09E-08	6.76E-11	3.77E-08	9.27E-10	4.23E-09	0.00E+00	5.15E-09	5.69E-10	1.94E-09	0.00E+00	2.51E-09
4558	421284.27	3734343.18	6.48E-09	2.96E-08	6.48E-11	3.62E-08	8.88E-10	4.05E-09	0.00E+00	4.94E-09	5.45E-10	1.86E-09	0.00E+00	2.41E-09
4559	421284.23	3734333.47	6.21E-09	2.84E-08	6.21E-11	3.47E-08	8.51E-10	3.88E-09	0.00E+00	4.73E-09	5.22E-10	1.78E-09	0.00E+00	2.31E-09
4560	421284.19	3734323.77	5.96E-09	2.72E-08	5.96E-11	3.33E-08	8.17E-10	3.73E-09	0.00E+00	4.54E-09	5.01E-10	1.71E-09	0.00E+00	2.21E-09
4561	421284.16	3734314.07	5.73E-09	2.62E-08	5.72E-11	3.20E-08	7.85E-10	3.58E-09	0.00E+00	4.36E-09	4.82E-10	1.65E-09	0.00E+00	2.13E-09
4562	421284.12	3734304.37	5.51E-09	2.52E-08	5.51E-11	3.08E-08	7.55E-10	3.44E-09	0.00E+00	4.20E-09	4.64E-10	1.58E-09	0.00E+00	2.05E-09
4563	421284.09	3734294.67	5.31E-09	2.43E-08	5.31E-11	2.96E-08	7.28E-10	3.32E-09	0.00E+00	4.05E-09	4.47E-10	1.53E-09	0.00E+00	1.97E-09
4564	421302.39	3734445.21	1.01E-08	4.61E-08	1.01E-10	5.62E-08	1.38E-09	6.30E-09	0.00E+00	7.68E-09	8.47E-10	2.89E-09	0.00E+00	3.74E-09
4565	421298.71	3734454.16	1.07E-08	4.89E-08	1.07E-10	5.97E-08	1.47E-09	6.69E-09	0.00E+00	8.15E-09	9.00E-10	3.07E-09	0.00E+00	3.97E-09
4566	421295.03	3734463.11	1.14E-08	5.20E-08	1.14E-10	6.34E-08	1.56E-09	7.11E-09	0.00E+00	8.66E-09	9.56E-10	3.27E-09	0.00E+00	4.22E-09
4567	421291.36	3734472.05	1.21E-08	5.52E-08	1.21E-10	6.74E-08	1.66E-09	7.55E-09	0.00E+00	9.21E-09	1.02E-09	3.47E-09	0.00E+00	4.49E-09
4568	421287.68	3734481	1.28E-08	5.87E-08	1.28E-10	7.17E-08	1.76E-09	8.03E-09	0.00E+00	9.79E-09	1.08E-09	3.69E-09	0.00E+00	4.77E-09
4569	421284.01	3734489.94	1.36E-08	6.24E-08	1.36E-10	7.62E-08	1.87E-09	8.53E-09	0.00E+00	1.04E-08	1.15E-09	3.92E-09	0.00E+00	5.07E-09
4570	421239.89	3734597.29	2.73E-08	1.25E-07	2.73E-10	1.52E-07	3.74E-09	1.71E-08	0.00E+00	2.08E-08	2.30E-09	7.85E-09	0.00E+00	1.01E-08
4571	421236.21	3734606.24	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	0.00E+00	2.20E-08	2.42E-09	8.28E-09	0.00E+00	1.07E-08

4572	421232.54	3734615.19	3.03E-08	1.38E-07	3.03E-10	1.69E-07	4.15E-09	1.89E-08	0.00E+00	2.31E-08	2.55E-09	8.70E-09	0.00E+00	1.12E-08
4573	421228.86	3734624.13	3.17E-08	1.45E-07	3.17E-10	1.77E-07	4.35E-09	1.98E-08	0.00E+00	2.42E-08	2.67E-09	9.12E-09	0.00E+00	1.18E-08
4574	421225.18	3734633.08	3.32E-08	1.52E-07	3.31E-10	1.85E-07	4.55E-09	2.07E-08	0.00E+00	2.53E-08	2.79E-09	9.53E-09	0.00E+00	1.23E-08
4575	421221.51	3734642.02	3.46E-08	1.58E-07	3.46E-10	1.93E-07	4.74E-09	2.16E-08	0.00E+00	2.64E-08	2.91E-09	9.94E-09	0.00E+00	1.28E-08
4576	421217.83	3734650.97	3.60E-08	1.65E-07	3.60E-10	2.01E-07	4.94E-09	2.25E-08	0.00E+00	2.75E-08	3.03E-09	1.03E-08	0.00E+00	1.34E-08
4577	421214.15	3734659.92	3.75E-08	1.71E-07	3.75E-10	2.09E-07	5.14E-09	2.34E-08	0.00E+00	2.86E-08	3.15E-09	1.08E-08	0.00E+00	1.39E-08
4578	421210.48	3734668.86	3.89E-08	1.78E-07	3.89E-10	2.17E-07	5.34E-09	2.44E-08	0.00E+00	2.97E-08	3.28E-09	1.12E-08	0.00E+00	1.45E-08
4579	421206.8	3734677.81	4.03E-08	1.84E-07	4.03E-10	2.25E-07	5.53E-09	2.52E-08	0.00E+00	3.07E-08	3.39E-09	1.16E-08	0.00E+00	1.50E-08
4580	421203.13	3734686.75	4.16E-08	1.90E-07	4.16E-10	2.32E-07	5.71E-09	2.60E-08	0.00E+00	3.17E-08	3.50E-09	1.20E-08	0.00E+00	1.55E-08
4581	421199.45	3734695.7	4.29E-08	1.96E-07	4.29E-10	2.40E-07	5.88E-09	2.68E-08	0.00E+00	3.27E-08	3.61E-09	1.23E-08	0.00E+00	1.59E-08
4582	421195.77	3734704.65	4.43E-08	2.03E-07	4.43E-10	2.47E-07	6.08E-09	2.77E-08	0.00E+00	3.38E-08	3.73E-09	1.27E-08	0.00E+00	1.65E-08
4583	421192.1	3734713.59	4.57E-08	2.09E-07	4.57E-10	2.55E-07	6.27E-09	2.86E-08	0.00E+00	3.49E-08	3.85E-09	1.31E-08	0.00E+00	1.70E-08
4584	421188.42	3734722.54	4.71E-08	2.15E-07	4.70E-10	2.63E-07	6.45E-09	2.94E-08	0.00E+00	3.59E-08	3.96E-09	1.35E-08	0.00E+00	1.75E-08
4585	421184.74	3734731.48	4.83E-08	2.21E-07	4.83E-10	2.70E-07	6.62E-09	3.02E-08	0.00E+00	3.68E-08	4.07E-09	1.39E-08	0.00E+00	1.79E-08
4586	421181.07	3734740.43	4.95E-08	2.26E-07	4.95E-10	2.76E-07	6.79E-09	3.10E-08	0.00E+00	3.77E-08	4.17E-09	1.42E-08	0.00E+00	1.84E-08
4587	421177.39	3734749.37	5.06E-08	2.32E-07	5.06E-10	2.83E-07	6.94E-09	3.17E-08	0.00E+00	3.86E-08	4.26E-09	1.46E-08	0.00E+00	1.88E-08
4588	421173.71	3734758.32	5.17E-08	2.36E-07	5.16E-10	2.88E-07	7.08E-09	3.23E-08	0.00E+00	3.94E-08	4.35E-09	1.48E-08	0.00E+00	1.92E-08
4589	421092.81	3734829.02	6.77E-08	3.09E-07	6.76E-10	3.78E-07	9.28E-09	4.23E-08	0.00E+00	5.16E-08	5.69E-09	1.94E-08	0.00E+00	2.51E-08
4590	421083.87	3734832.73	6.94E-08	3.17E-07	6.93E-10	3.87E-07	9.51E-09	4.34E-08	0.00E+00	5.29E-08	5.84E-09	1.99E-08	0.00E+00	2.58E-08
4591	421048.15	3734847.57	7.63E-08	3.49E-07	7.63E-10	4.26E-07	1.05E-08	4.77E-08	0.00E+00	5.82E-08	6.42E-09	2.19E-08	0.00E+00	2.84E-08
4592	421039.21	3734851.27	7.77E-08	3.55E-07	7.76E-10	4.34E-07	1.06E-08	4.86E-08	0.00E+00	5.92E-08	6.54E-09	2.23E-08	0.00E+00	2.89E-08
4593	421030.28	3734854.98	7.90E-08	3.61E-07	7.89E-10	4.41E-07	1.08E-08	4.94E-08	0.00E+00	6.02E-08	6.64E-09	2.27E-08	0.00E+00	2.93E-08
4594	421021.35	3734858.69	8.01E-08	3.66E-07	8.01E-10	4.47E-07	1.10E-08	5.01E-08	0.00E+00	6.11E-08	6.74E-09	2.30E-08	0.00E+00	2.98E-08
4595	420994.55	3734869.82	8.28E-08	3.79E-07	8.28E-10	4.62E-07	1.14E-08	5.18E-08	0.00E+00	6.31E-08	6.97E-09	2.38E-08	0.00E+00	3.08E-08
4596	420985.62	3734873.53	8.33E-08	3.81E-07	8.33E-10	4.65E-07	1.14E-08	5.21E-08	0.00E+00	6.35E-08	7.01E-09	2.39E-08	0.00E+00	3.09E-08
4597	420976.69	3734877.24	8.36E-08	3.82E-07	8.35E-10	4.66E-07	1.15E-08	5.22E-08	0.00E+00	6.37E-08	7.03E-09	2.40E-08	0.00E+00	3.10E-08
4598	420967.76	3734880.95	8.35E-08	3.82E-07	8.35E-10	4.66E-07	1.14E-08	5.22E-08	0.00E+00	6.37E-08	7.03E-09	2.40E-08	0.00E+00	3.10E-08
4599	420958.82	3734884.66	8.31E-08	3.80E-07	8.31E-10	4.64E-07	1.14E-08	5.20E-08	0.00E+00	6.34E-08	6.99E-09	2.39E-08	0.00E+00	3.09E-08
4600	420949.89	3734888.37	8.24E-08	3.77E-07	8.23E-10	4.60E-07	1.13E-08	5.15E-08	0.00E+00	6.28E-08	6.93E-09	2.37E-08	0.00E+00	3.06E-08
4601	420940.96	3734892.08	8.12E-08	3.71E-07	8.12E-10	4.53E-07	1.11E-08	5.08E-08	0.00E+00	6.19E-08	6.83E-09	2.33E-08	0.00E+00	3.02E-08
4602	420932.03	3734895.79	7.97E-08	3.65E-07	7.97E-10	4.45E-07	1.09E-08	4.98E-08	0.00E+00	6.08E-08	6.71E-09	2.29E-08	0.00E+00	2.96E-08
4603	420923.09	3734899.5	7.78E-08	3.56E-07	7.78E-10	4.34E-07	1.07E-08	4.87E-08	0.00E+00	5.93E-08	6.55E-09	2.24E-08	0.00E+00	2.89E-08
4604	420914.16	3734903.21	7.56E-08	3.46E-07	7.56E-10	4.22E-07	1.04E-08	4.73E-08	0.00E+00	5.76E-08	6.36E-09	2.17E-08	0.00E+00	2.81E-08
4605	420905.23	3734906.92	7.31E-08	3.34E-07	7.31E-10	4.08E-07	1.00E-08	4.57E-08	0.00E+00	5.57E-08	6.15E-09	2.10E-08	0.00E+00	2.72E-08
4606	420896.3	3734910.63	7.03E-08	3.21E-07	7.02E-10	3.92E-07	9.63E-09	4.39E-08	0.00E+00	5.36E-08	5.91E-09	2.02E-08	0.00E+00	2.61E-08
4607	420887.37	3734914.34	6.71E-08	3.07E-07	6.71E-10	3.75E-07	9.20E-09	4.20E-08	0.00E+00	5.12E-08	5.65E-09	1.93E-08	0.00E+00	2.49E-08
4608	420878.43	3734918.05	6.38E-08	2.92E-07	6.38E-10	3.56E-07	8.75E-09	3.99E-08	0.00E+00	4.86E-08	5.37E-09	1.83E-08	0.00E+00	2.37E-08
4609	420869.5	3734921.76	6.04E-08	2.76E-07	6.04E-10	3.37E-07	8.28E-09	3.78E-08	0.00E+00	4.60E-08	5.08E-09	1.74E-08	0.00E+00	2.24E-08
4610	420860.57	3734925.47	5.70E-08	2.60E-07	5.69E-10	3.18E-07	7.81E-09	3.56E-08	0.00E+00	4.34E-08	4.79E-09	1.64E-08	0.00E+00	2.12E-08
4611	420851.64	3734929.18	5.34E-08	2.44E-07	5.34E-10	2.98E-07	7.33E-09	3.34E-08	0.00E+00	4.07E-08	4.50E-09	1.54E-08	0.00E+00	1.99E-08
4612	420842.7	3734932.88	4.99E-08	2.28E-07	4.99E-10	2.79E-07	6.84E-09	3.12E-08	0.00E+00	3.81E-08	4.20E-09	1.43E-08	0.00E+00	1.85E-08
4613	420833.77	3734936.59	4.64E-08	2.12E-07	4.64E-10	2.59E-07	6.37E-09	2.90E-08	0.00E+00	3.54E-08	3.91E-09	1.33E-08	0.00E+00	1.73E-08
4614	420824.84	3734940.3	4.30E-08	1.97E-07	4.30E-10	2.40E-07	5.90E-09	2.69E-08	0.00E+00	3.28E-08	3.62E-09	1.24E-08	0.00E+00	1.60E-08
4615	420815.91	3734944.01	3.97E-08	1.82E-07	3.97E-10	2.22E-07	5.45E-09	2.48E-08	0.00E+00	3.03E-08	3.34E-09	1.14E-08	0.00E+00	1.48E-08
4616	420806.98	3734947.72	3.66E-08	1.67E-07	3.66E-10	2.04E-07	5.02E-09	2.29E-08	0.00E+00	2.79E-08	3.08E-09	1.05E-08	0.00E+00	1.36E-08
4617	420798.04	3734951.43	3.37E-08	1.54E-07	3.37E-10	1.88E-07	4.62E-09	2.11E-08	0.00E+00	2.57E-08	2.83E-09	9.68E-09	0.00E+00	1.25E-08
4618	420789.11	3734955.14	3.09E-08	1.41E-07	3.09E-10	1.72E-07	4.23E-09	1.93E-08	0.00E+00	2.35E-08	2.60E-09	8.88E-09	0.00E+00	1.15E-08
4619	420780.18	3734958.85	2.82E-08	1.29E-07	2.82E-10	1.58E-07	3.87E-09	1.77E-08	0.00E+00	2.15E-08	2.38E-09	8.11E-09	0.00E+00	1.05E-08
4620	420771.25	3734962.56	2.57E-08	1.18E-07	2.57E-10	1.43E-07	3.52E-09	1.61E-08	0.00E+00	1.96E-08	2.16E-09	7.39E-09	0.00E+00	9.55E-09
4621	420762.31	3734966.27	2.34E-08	1.07E-07	2.34E-10	1.30E-07	3.20E-09	1.46E-08	0.00E+00	1.78E-08	1.97E-09	6.71E-09	0.00E+00	8.68E-09
4622	420753.38	3734969.98	2.12E-08	9.70E-08	2.12E-10	1.18E-07	2.91E-09	1.33E-08	0.00E+00	1.62E-08	1.78E-09	6.10E-09	0.00E+00	7.88E-09
4623	421324.45	3734391.54	7.14E-09	3.26E-08	7.13E-11	3.98E-08	9.78E-10	4.46E-09	0.00E+00	5.44E-09	6.01E-10	2.05E-09	0.00E+00	2.65E-09
4624	421324.41	3734381.84	6.82E-09	3.12E-08	6.82E-11	3.81E-08	9.35E-10	4.27E-09	0.00E+00	5.20E-09	5.74E-10	1.96E-09	0.00E+00	2.53E-09
4625	421324.37	3734372.13	6.53E-09	2.98E-08	6.52E-11	3.64E-08	8.95E-10	4.08E-09	0.00E+00	4.97E-09	5.49E-10	1.88E-09	0.00E+00	2.42E-09
4626	421324.34	3734362.43	6.27E-09	2.86E-08	6.26E-11	3.50E-08	8.59E-10	3.92E-09	0.00E+00	4.78E-09	5.27E-10	1.80E-09	0.00E+00	2.33E-09
4627	421324.3	3734352.73	6.02E-09	2.75E-08	6.01E-11	3.36E-08	8.25E-10	3.76E-09	0.00E+00	4.59E-09	5.06E-10	1.73E-09	0.00E+00	2.24E-09
4628	421324.27	3734343.03	5.77E-09	2.64E-08	5.77E-11	3.22E-08	7.91E-10	3.61E-09	0.00E+00	4.40E-09	4.86E-10	1.66E-09	0.00E+00	2.14E-09
4629	421324.23	3734333.33	5.54E-09	2.53E-08	5.54E-11	3.09E-08	7.60E-10	3.47E-09	0.00E+00	4.23E-09	4.66E-10	1.59E-09	0.00E+00	2.06E-09
4630	421324.19	3734323.62	5.33E-09	2.43E-08	5.32E-11	2.97E-08	7.30E-10	3.33E-09	0.00E+00	4.06E-09	4.48E-10	1.53E-09	0.00E+00	1.98E-09
4631	421324.16	3734313.92	5.11E-09	2.33E-08	5.10E-11	2.85E-08	7.00E-10	3.19E-09	0.00E+00	3.89E-09	4.30E-10	1.47E-09	0.00E+00	1.90E-09
4632	421324.12	3734304.22	4.91E-09	2.25E-08	4.91E-11	2.74E-08	6.74E-10	3.07E-09	0.00E+00	3.75E-09	4.13E-10	1.41E-09	0.00E+00	1.83E-09
4633	421324.09	3734294.52	4.74E-09	2.17E-08	4.74E-11	2.65E-08	6.50E-10	2.96E-09	0.00E+00	3.61E-09	3.99E-10	1.36E-09	0.00E+00	1.76E-09
4634	421342.75	3734444.18	8.69E-09	3.97E-08	8.69E-11	4.85E-08	1.19E-09	5.43E-09	0.00E+00	6.63E-09	7.31E-10	2.50E-09	0.00E+00	3.23E-09
4635	421339.14	3734452.97	9.18E-09	4.20E-08	9.18E-11	5.13E-08	1.26E-09	5.74E-09	0.00E+00	7.00E-09	7.73E-10	2.64E-09	0.00E+00	3.41E-09
4636	421335.52	3734461.77	9.71E-09	4.44E-08	9.71E-11	5.42E-08	1.33E-09	6.07E-09	0.00E+00	7.40E-09	8.17E-10	2.79E-09	0.00E+00	3.61E-09
4637	421331.91	3734470.57	1.03E-08	4.70E-08	1.03E-10	5.73E-08	1.41E-09	6.42E-09	0.00E+00	7.83E-09	8.64E-10	2.95E-09	0.00E+00	3.82E-09
4638	421328.29	3734479.37	1.09E-08	4.97E-08	1.09E-10	6.07E-08	1.49E-09	6.79E-09	0.00E+00	8.28E-09	9.14E-10	3.12E-09	0.00E+00	4.04E-09
4639	421324.67	3734488.17	1.15E-08	5.26E-08	1.15E-10	6.42E-08	1.58E-09	7.19E-09	0.00E+00	8.77E-09	9.67E-10	3.30E-09	0.00E+00	4.27E-09
4640	421321.06	3734496.96	1.22E-08	5.56E-08	1.22E-10	6.79E-08	1.67E-09	7.61E-09	0.00E+00	9.28E-09	1.02E-09	3.50E-09	0.00E+00	4.52E-09
4641	421277.67	3734602.54	2.31E-08	1.06E-07	2.31E-10	1.29E-07	3.17E-09	1.44E-08	0.00E+00	1.76E-08	1.94E-09	6.64E-09	0.00E+00	8.59E-09
4642	421274.06	3734611.34	2.43E-08	1.11E-07	2.43E-10	1.36E-07	3.34E-09	1.52E-08	0.00E+00	1.86E-08	2.05E-09	6.99E-09	0.00E+00	9.04E-09
4643	421270.44	3734620.13	2.56E-08	1.17E-07	2.56E-10	1.43E-07	3.51E-09	1.60E-08	0.00E+00	1.95E-08	2.15E-09	7.35E-09	0.00E+00	9.51E-09
4644	421266.83	3734628.93	2.68E-08	1.23E-07	2.68E-10	1.50E-07	3.67E-09	1.68E-08	0.00E+00	2.04E-08	2.26E-09	7.70E-09	0.00E+00	9.96E-09
4645	421263.21	3734637.73	2.80E-08	1.28E-07	2.80E-10	1.56E-07	3.84E-09	1.75E-08	0.00E+00	2.14E-08	2.36E-09	8.05E-09	0.00E+00	1.04E-08
4646	421259.6	3734646.53	2.92E-08	1.34E-07	2.92E-10	1.63E-07	4.01E-09	1.83E-08	0.00E+00	2.23E-08	2.46E-09	8.40E-09	0.00E+00	1.09E-08

4647	421255.98	3734655.33	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.74E-09	0.00E+00	1.13E-08
4648	421252.36	3734664.12	3.15E-08	1.44E-07	3.15E-10	1.76E-07	4.32E-09	1.97E-08	0.00E+00	2.40E-08	2.65E-09	9.06E-09	0.00E+00	1.17E-08
4649	421248.75	3734672.92	3.26E-08	1.49E-07	3.26E-10	1.82E-07	4.47E-09	2.04E-08	0.00E+00	2.49E-08	2.74E-09	9.37E-09	0.00E+00	1.21E-08
4650	421245.13	3734681.72	3.37E-08	1.54E-07	3.37E-10	1.88E-07	4.62E-09	2.11E-08	0.00E+00	2.57E-08	2.83E-09	9.68E-09	0.00E+00	1.25E-08
4651	421241.52	3734690.52	3.48E-08	1.59E-07	3.47E-10	1.94E-07	4.76E-09	2.17E-08	0.00E+00	2.65E-08	2.92E-09	9.99E-09	0.00E+00	1.29E-08
4652	421237.9	3734699.31	3.58E-08	1.64E-07	3.58E-10	2.00E-07	4.91E-09	2.24E-08	0.00E+00	2.73E-08	3.01E-09	1.03E-08	0.00E+00	1.33E-08
4653	421234.29	3734708.11	3.68E-08	1.68E-07	3.68E-10	2.05E-07	5.04E-09	2.30E-08	0.00E+00	2.80E-08	3.09E-09	1.06E-08	0.00E+00	1.37E-08
4654	421230.67	3734716.91	3.77E-08	1.73E-07	3.77E-10	2.11E-07	5.17E-09	2.36E-08	0.00E+00	2.88E-08	3.18E-09	1.08E-08	0.00E+00	1.40E-08
4655	421174.88	3734834.93	4.78E-08	2.18E-07	4.77E-10	2.67E-07	6.55E-09	2.99E-08	0.00E+00	3.64E-08	4.02E-09	1.37E-08	0.00E+00	1.77E-08
4656	421166.1	3734838.58	4.90E-08	2.24E-07	4.90E-10	2.74E-07	6.72E-09	3.07E-08	0.00E+00	3.74E-08	4.13E-09	1.41E-08	0.00E+00	1.82E-08
4657	421157.32	3734842.23	5.03E-08	2.30E-07	5.02E-10	2.81E-07	6.89E-09	3.14E-08	0.00E+00	3.83E-08	4.23E-09	1.44E-08	0.00E+00	1.87E-08
4658	421130.96	3734853.17	5.43E-08	2.48E-07	5.42E-10	3.03E-07	7.44E-09	3.39E-08	0.00E+00	4.14E-08	4.57E-09	1.56E-08	0.00E+00	2.02E-08
4659	421078.26	3734875.06	6.36E-08	2.91E-07	6.35E-10	3.55E-07	8.71E-09	3.97E-08	0.00E+00	4.84E-08	5.35E-09	1.83E-08	0.00E+00	2.36E-08
4660	421069.47	3734878.71	6.50E-08	2.97E-07	6.49E-10	3.63E-07	8.90E-09	4.06E-08	0.00E+00	4.95E-08	5.47E-09	1.87E-08	0.00E+00	2.41E-08
4661	421060.69	3734882.36	6.63E-08	3.03E-07	6.63E-10	3.70E-07	9.09E-09	4.15E-08	0.00E+00	5.06E-08	5.58E-09	1.91E-08	0.00E+00	2.46E-08
4662	421051.9	3734886	6.76E-08	3.09E-07	6.76E-10	3.77E-07	9.27E-09	4.23E-08	0.00E+00	5.15E-08	5.69E-09	1.94E-08	0.00E+00	2.51E-08
4663	421043.12	3734889.65	6.86E-08	3.14E-07	6.86E-10	3.83E-07	9.41E-09	4.29E-08	0.00E+00	5.23E-08	5.77E-09	1.97E-08	0.00E+00	2.55E-08
4664	421034.33	3734893.3	6.95E-08	3.18E-07	6.94E-10	3.88E-07	9.52E-09	4.34E-08	0.00E+00	5.29E-08	5.84E-09	2.00E-08	0.00E+00	2.58E-08
4665	421025.55	3734896.95	7.02E-08	3.21E-07	7.01E-10	3.92E-07	9.62E-09	4.39E-08	0.00E+00	5.35E-08	5.90E-09	2.02E-08	0.00E+00	2.61E-08
4666	421016.77	3734900.6	7.07E-08	3.23E-07	7.07E-10	3.95E-07	9.70E-09	4.42E-08	0.00E+00	5.39E-08	5.95E-09	2.03E-08	0.00E+00	2.63E-08
4667	420990.41	3734911.54	7.10E-08	3.25E-07	7.10E-10	3.96E-07	9.74E-09	4.44E-08	0.00E+00	5.41E-08	5.98E-09	2.04E-08	0.00E+00	2.64E-08
4668	420981.63	3734915.19	7.07E-08	3.23E-07	7.07E-10	3.95E-07	9.70E-09	4.42E-08	0.00E+00	5.39E-08	5.95E-09	2.03E-08	0.00E+00	2.63E-08
4669	420972.84	3734918.84	7.02E-08	3.21E-07	7.02E-10	3.92E-07	9.63E-09	4.39E-08	0.00E+00	5.35E-08	5.91E-09	2.02E-08	0.00E+00	2.61E-08
4670	420964.06	3734922.49	6.95E-08	3.18E-07	6.94E-10	3.88E-07	9.52E-09	4.34E-08	0.00E+00	5.29E-08	5.84E-09	2.00E-08	0.00E+00	2.58E-08
4671	420955.28	3734926.13	6.84E-08	3.13E-07	6.84E-10	3.82E-07	9.38E-09	4.28E-08	0.00E+00	5.21E-08	5.75E-09	1.97E-08	0.00E+00	2.54E-08
4672	420946.49	3734929.78	6.70E-08	3.07E-07	6.70E-10	3.74E-07	9.19E-09	4.19E-08	0.00E+00	5.11E-08	5.64E-09	1.93E-08	0.00E+00	2.49E-08
4673	420937.71	3734933.43	6.55E-08	2.99E-07	6.54E-10	3.65E-07	8.97E-09	4.09E-08	0.00E+00	4.99E-08	5.51E-09	1.88E-08	0.00E+00	2.43E-08
4674	420928.92	3734937.08	6.36E-08	2.91E-07	6.36E-10	3.55E-07	8.73E-09	3.98E-08	0.00E+00	4.85E-08	5.35E-09	1.83E-08	0.00E+00	2.36E-08
4675	420920.14	3734940.73	6.15E-08	2.81E-07	6.15E-10	3.43E-07	8.43E-09	3.85E-08	0.00E+00	4.69E-08	5.18E-09	1.77E-08	0.00E+00	2.29E-08
4676	420911.35	3734944.37	5.92E-08	2.71E-07	5.92E-10	3.30E-07	8.11E-09	3.70E-08	0.00E+00	4.51E-08	4.98E-09	1.70E-08	0.00E+00	2.20E-08
4677	420902.57	3734948.02	5.67E-08	2.59E-07	5.67E-10	3.16E-07	7.77E-09	3.54E-08	0.00E+00	4.32E-08	4.77E-09	1.63E-08	0.00E+00	2.11E-08
4678	420893.78	3734951.67	5.41E-08	2.48E-07	5.41E-10	3.02E-07	7.42E-09	3.39E-08	0.00E+00	4.13E-08	4.56E-09	1.56E-08	0.00E+00	2.01E-08
4679	420885	3734955.32	5.16E-08	2.36E-07	5.15E-10	2.88E-07	7.07E-09	3.22E-08	0.00E+00	3.93E-08	4.34E-09	1.48E-08	0.00E+00	1.92E-08
4680	420876.22	3734958.97	4.89E-08	2.24E-07	4.89E-10	2.73E-07	6.71E-09	3.06E-08	0.00E+00	3.73E-08	4.12E-09	1.41E-08	0.00E+00	1.82E-08
4681	420867.43	3734962.62	4.62E-08	2.11E-07	4.62E-10	2.58E-07	6.34E-09	2.89E-08	0.00E+00	3.52E-08	3.89E-09	1.33E-08	0.00E+00	1.72E-08
4682	420858.65	3734966.26	4.35E-08	1.99E-07	4.35E-10	2.43E-07	5.96E-09	2.72E-08	0.00E+00	3.31E-08	3.66E-09	1.25E-08	0.00E+00	1.62E-08
4683	420849.86	3734969.91	4.07E-08	1.86E-07	4.07E-10	2.27E-07	5.58E-09	2.55E-08	0.00E+00	3.10E-08	3.43E-09	1.17E-08	0.00E+00	1.51E-08
4684	420841.08	3734973.56	3.80E-08	1.74E-07	3.80E-10	2.12E-07	5.21E-09	2.38E-08	0.00E+00	2.90E-08	3.20E-09	1.09E-08	0.00E+00	1.41E-08
4685	420832.29	3734977.21	3.54E-08	1.62E-07	3.54E-10	1.98E-07	4.86E-09	2.22E-08	0.00E+00	2.70E-08	2.98E-09	1.02E-08	0.00E+00	1.32E-08
4686	420823.51	3734980.86	3.29E-08	1.50E-07	3.29E-10	1.84E-07	4.51E-09	2.06E-08	0.00E+00	2.51E-08	2.77E-09	9.46E-09	0.00E+00	1.22E-08
4687	420814.73	3734984.5	3.05E-08	1.39E-07	3.05E-10	1.70E-07	4.18E-09	1.90E-08	0.00E+00	2.32E-08	2.56E-09	8.75E-09	0.00E+00	1.13E-08
4688	420805.94	3734988.15	2.81E-08	1.29E-07	2.81E-10	1.57E-07	3.85E-09	1.76E-08	0.00E+00	2.14E-08	2.37E-09	8.08E-09	0.00E+00	1.04E-08
4689	420797.16	3734991.8	2.59E-08	1.18E-07	2.59E-10	1.45E-07	3.55E-09	1.62E-08	0.00E+00	1.97E-08	2.18E-09	7.44E-09	0.00E+00	9.62E-09
4690	420788.37	3734995.45	2.38E-08	1.09E-07	2.38E-10	1.33E-07	3.27E-09	1.49E-08	0.00E+00	1.82E-08	2.01E-09	6.85E-09	0.00E+00	8.86E-09
4691	420779.59	3734999.1	2.19E-08	1.00E-07	2.19E-10	1.23E-07	3.01E-09	1.37E-08	0.00E+00	1.67E-08	1.85E-09	6.31E-09	0.00E+00	8.15E-09
4692	420770.8	3735002.75	2.01E-08	9.19E-08	2.01E-10	1.12E-07	2.76E-09	1.26E-08	0.00E+00	1.53E-08	1.69E-09	5.78E-09	0.00E+00	7.47E-09
4693	420762.02	3735006.39	1.84E-08	8.41E-08	1.84E-10	1.03E-07	2.52E-09	1.15E-08	0.00E+00	1.40E-08	1.55E-09	5.29E-09	0.00E+00	6.83E-09
4694	420753.23	3735010.04	1.68E-08	7.69E-08	1.68E-10	9.39E-08	2.31E-09	1.05E-08	0.00E+00	1.28E-08	1.42E-09	4.83E-09	0.00E+00	6.25E-09
4695	421364.45	3734391.39	6.36E-09	2.91E-08	6.35E-11	3.55E-08	8.71E-10	3.97E-09	0.00E+00	4.85E-09	5.35E-10	1.83E-09	0.00E+00	2.36E-09
4696	421364.41	3734381.69	6.09E-09	2.79E-08	6.09E-11	3.40E-08	8.35E-10	3.81E-09	0.00E+00	4.64E-09	5.13E-10	1.75E-09	0.00E+00	2.26E-09
4697	421364.37	3734371.99	5.84E-09	2.67E-08	5.84E-11	3.26E-08	8.01E-10	3.65E-09	0.00E+00	4.45E-09	4.92E-10	1.68E-09	0.00E+00	2.17E-09
4698	421364.34	3734362.28	5.60E-09	2.56E-08	5.60E-11	3.13E-08	7.68E-10	3.50E-09	0.00E+00	4.27E-09	4.71E-10	1.61E-09	0.00E+00	2.08E-09
4699	421364.3	3734352.58	5.37E-09	2.46E-08	5.37E-11	3.00E-08	7.36E-10	3.36E-09	0.00E+00	4.09E-09	4.52E-10	1.54E-09	0.00E+00	1.99E-09
4700	421364.27	3734342.88	5.15E-09	2.36E-08	5.15E-11	2.88E-08	7.06E-10	3.22E-09	0.00E+00	3.93E-09	4.33E-10	1.48E-09	0.00E+00	1.91E-09
4701	421364.23	3734333.18	4.95E-09	2.26E-08	4.95E-11	2.76E-08	6.79E-10	3.10E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
4702	421364.19	3734323.48	4.76E-09	2.18E-08	4.76E-11	2.66E-08	6.52E-10	2.98E-09	0.00E+00	3.63E-09	4.00E-10	1.37E-09	0.00E+00	1.77E-09
4703	421364.16	3734313.77	4.58E-09	2.09E-08	4.58E-11	2.56E-08	6.28E-10	2.86E-09	0.00E+00	3.49E-09	3.85E-10	1.32E-09	0.00E+00	1.70E-09
4704	421364.12	3734304.07	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.76E-09	0.00E+00	3.37E-09	3.72E-10	1.27E-09	0.00E+00	1.64E-09
4705	421364.09	3734294.37	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.85E-10	2.67E-09	0.00E+00	3.26E-09	3.59E-10	1.23E-09	0.00E+00	1.59E-09
4706	421382.66	3734444.25	7.63E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.77E-09	0.00E+00	5.82E-09	6.42E-10	2.19E-09	0.00E+00	2.83E-09
4707	421379.03	3734453.09	8.03E-09	3.67E-08	8.03E-11	4.48E-08	1.10E-09	5.02E-09	0.00E+00	6.12E-09	6.76E-10	2.31E-09	0.00E+00	2.98E-09
4708	421375.4	3734461.92	8.46E-09	3.87E-08	8.46E-11	4.72E-08	1.16E-09	5.29E-09	0.00E+00	6.45E-09	7.12E-10	2.43E-09	0.00E+00	3.14E-09
4709	421371.77	3734470.76	8.92E-09	4.08E-08	8.92E-11	4.98E-08	1.22E-09	5.58E-09	0.00E+00	6.80E-09	7.51E-10	2.56E-09	0.00E+00	3.31E-09
4710	421331.83	3734567.95	1.57E-08	7.18E-08	1.57E-10	8.76E-08	2.15E-09	9.81E-09	0.00E+00	1.20E-08	1.32E-09	4.51E-09	0.00E+00	5.83E-09
4711	421328.2	3734576.78	1.64E-08	7.52E-08	1.64E-10	9.18E-08	2.25E-09	1.03E-08	0.00E+00	1.25E-08	1.38E-09	4.72E-09	0.00E+00	6.11E-09
4712	421324.56	3734585.62	1.72E-08	7.89E-08	1.72E-10	9.63E-08	2.36E-09	1.08E-08	0.00E+00	1.31E-08	1.45E-09	4.96E-09	0.00E+00	6.41E-09
4713	421320.93	3734594.45	1.81E-08	8.27E-08	1.81E-10	1.01E-07	2.48E-09	1.13E-08	0.00E+00	1.38E-08	1.52E-09	5.20E-09	0.00E+00	6.72E-09
4714	421317.3	3734603.29	1.90E-08	8.68E-08	1.90E-10	1.06E-07	2.60E-09	1.19E-08	0.00E+00	1.45E-08	1.60E-09	5.45E-09	0.00E+00	7.05E-09
4715	421313.67	3734612.12	1.99E-08	9.10E-08	1.99E-10	1.11E-07	2.73E-09	1.25E-08	0.00E+00	1.52E-08	1.68E-09	5.72E-09	0.00E+00	7.40E-09
4716	421310.04	3734620.96	2.09E-08	9.57E-08	2.09E-10	1.17E-07	2.87E-09	1.31E-08	0.00E+00	1.60E-08	1.76E-09	6.02E-09	0.00E+00	7.78E-09
4717	421306.41	3734629.8	2.20E-08	1.01E-07	2.20E-10	1.23E-07	3.02E-09	1.38E-08	0.00E+00	1.68E-08	1.85E-09	6.32E-09	0.00E+00	8.17E-09
4718	421302.78	3734638.63	2.31E-08	1.05E-07	2.31E-10	1.29E-07	3.16E-09	1.44E-08	0.00E+00	1.76E-08	1.94E-09	6.63E-09	0.00E+00	8.57E-09
4719	421280.99	3734691.64	2.91E-08	1.33E-07	2.91E-10	1.62E-07	3.99E-09	1.82E-08	0.00E+00	2.22E-08	2.45E-09	8.36E-09	0.00E+00	1.08E-08
4720	421277.36	3734700.48	3.00E-08	1.37E-07	3.00E-10	1.68E-07	4.11E-09	1.88E-08	0.00E+00	2.29E-08	2.52E-09	8.62E-09	0.00E+00	1.11E-08
4721	421273.73	3734709.31	3.09E-08	1.41E-07	3.09E-10	1.72E-07	4.24E-09	1.93E-08	0.00E+00	2.36E-08	2.60E-09	8.88E-09	0.00E+00	1.15E-08

4722	421270.1	3734718.15	3.18E-08	1.45E-07	3.18E-10	1.77E-07	4.35E-09	1.99E-08	0.00E+00	2.42E-08	2.67E-09	9.13E-09	0.00E+00	1.18E-08
4723	421266.47	3734726.98	3.26E-08	1.49E-07	3.26E-10	1.82E-07	4.47E-09	2.04E-08	0.00E+00	2.49E-08	2.74E-09	9.37E-09	0.00E+00	1.21E-08
4724	421262.84	3734735.82	3.34E-08	1.53E-07	3.34E-10	1.86E-07	4.58E-09	2.09E-08	0.00E+00	2.55E-08	2.81E-09	9.60E-09	0.00E+00	1.24E-08
4725	421259.21	3734744.65	3.42E-08	1.56E-07	3.42E-10	1.91E-07	4.69E-09	2.14E-08	0.00E+00	2.61E-08	2.88E-09	9.82E-09	0.00E+00	1.27E-08
4726	421255.58	3734753.49	3.49E-08	1.60E-07	3.49E-10	1.95E-07	4.79E-09	2.18E-08	0.00E+00	2.66E-08	2.94E-09	1.00E-08	0.00E+00	1.30E-08
4727	421203.18	3734863.18	4.12E-08	1.88E-07	4.12E-10	2.30E-07	5.64E-09	2.57E-08	0.00E+00	3.14E-08	3.46E-09	1.18E-08	0.00E+00	1.53E-08
4728	421194.36	3734866.84	4.22E-08	1.93E-07	4.22E-10	2.36E-07	5.79E-09	2.64E-08	0.00E+00	3.22E-08	3.55E-09	1.21E-08	0.00E+00	1.57E-08
4729	421185.54	3734870.5	4.32E-08	1.98E-07	4.32E-10	2.41E-07	5.92E-09	2.70E-08	0.00E+00	3.29E-08	3.63E-09	1.24E-08	0.00E+00	1.60E-08
4730	421159.07	3734881.5	4.62E-08	2.11E-07	4.61E-10	2.58E-07	6.33E-09	2.89E-08	0.00E+00	3.52E-08	3.88E-09	1.33E-08	0.00E+00	1.71E-08
4731	421150.25	3734885.16	4.72E-08	2.16E-07	4.72E-10	2.63E-07	6.47E-09	2.95E-08	0.00E+00	3.60E-08	3.97E-09	1.36E-08	0.00E+00	1.75E-08
4732	421141.43	3734888.82	4.82E-08	2.20E-07	4.82E-10	2.69E-07	6.61E-09	3.01E-08	0.00E+00	3.67E-08	4.05E-09	1.38E-08	0.00E+00	1.79E-08
4733	421088.5	3734910.81	5.58E-08	2.55E-07	5.58E-10	3.11E-07	7.65E-09	3.49E-08	0.00E+00	4.25E-08	4.69E-09	1.60E-08	0.00E+00	2.07E-08
4734	421079.68	3734914.47	5.71E-08	2.61E-07	5.71E-10	3.19E-07	7.83E-09	3.57E-08	0.00E+00	4.35E-08	4.81E-09	1.64E-08	0.00E+00	2.12E-08
4735	421070.86	3734918.13	5.81E-08	2.66E-07	5.81E-10	3.24E-07	7.96E-09	3.63E-08	0.00E+00	4.43E-08	4.89E-09	1.67E-08	0.00E+00	2.16E-08
4736	421062.03	3734921.8	5.90E-08	2.70E-07	5.89E-10	3.29E-07	8.09E-09	3.69E-08	0.00E+00	4.50E-08	4.96E-09	1.69E-08	0.00E+00	2.19E-08
4737	421053.21	3734925.46	5.98E-08	2.73E-07	5.97E-10	3.34E-07	8.19E-09	3.74E-08	0.00E+00	4.55E-08	5.03E-09	1.72E-08	0.00E+00	2.22E-08
4738	421044.39	3734929.12	6.03E-08	2.76E-07	6.03E-10	3.37E-07	8.27E-09	3.77E-08	0.00E+00	4.60E-08	5.08E-09	1.73E-08	0.00E+00	2.24E-08
4739	421035.57	3734932.79	6.07E-08	2.78E-07	6.07E-10	3.39E-07	8.33E-09	3.80E-08	0.00E+00	4.63E-08	5.11E-09	1.75E-08	0.00E+00	2.26E-08
4740	421026.75	3734936.45	6.10E-08	2.79E-07	6.10E-10	3.41E-07	8.36E-09	3.81E-08	0.00E+00	4.65E-08	5.13E-09	1.75E-08	0.00E+00	2.27E-08
4741	421017.93	3734940.12	6.11E-08	2.79E-07	6.10E-10	3.41E-07	8.37E-09	3.82E-08	0.00E+00	4.66E-08	5.14E-09	1.75E-08	0.00E+00	2.27E-08
4742	420991.46	3734951.11	6.00E-08	2.74E-07	6.00E-10	3.35E-07	8.23E-09	3.75E-08	0.00E+00	4.58E-08	5.05E-09	1.72E-08	0.00E+00	2.23E-08
4743	420982.64	3734954.77	5.93E-08	2.71E-07	5.93E-10	3.31E-07	8.14E-09	3.71E-08	0.00E+00	4.52E-08	4.99E-09	1.71E-08	0.00E+00	2.20E-08
4744	420973.82	3734958.43	5.85E-08	2.67E-07	5.84E-10	3.26E-07	8.02E-09	3.66E-08	0.00E+00	4.46E-08	4.92E-09	1.68E-08	0.00E+00	2.17E-08
4745	420965	3734962.1	5.74E-08	2.62E-07	5.74E-10	3.20E-07	7.87E-09	3.59E-08	0.00E+00	4.37E-08	4.83E-09	1.65E-08	0.00E+00	2.13E-08
4746	420956.17	3734965.76	5.61E-08	2.56E-07	5.61E-10	3.13E-07	7.69E-09	3.51E-08	0.00E+00	4.28E-08	4.72E-09	1.61E-08	0.00E+00	2.08E-08
4747	420947.35	3734969.42	5.46E-08	2.50E-07	5.46E-10	3.05E-07	7.49E-09	3.41E-08	0.00E+00	4.16E-08	4.60E-09	1.57E-08	0.00E+00	2.03E-08
4748	420938.53	3734973.09	5.30E-08	2.42E-07	5.30E-10	2.96E-07	7.26E-09	3.31E-08	0.00E+00	4.04E-08	4.46E-09	1.52E-08	0.00E+00	1.97E-08
4749	420929.71	3734976.75	5.12E-08	2.34E-07	5.12E-10	2.86E-07	7.02E-09	3.20E-08	0.00E+00	3.90E-08	4.31E-09	1.47E-08	0.00E+00	1.90E-08
4750	420920.89	3734980.42	4.92E-08	2.25E-07	4.92E-10	2.75E-07	6.75E-09	3.08E-08	0.00E+00	3.75E-08	4.14E-09	1.41E-08	0.00E+00	1.83E-08
4751	420912.06	3734984.08	4.72E-08	2.16E-07	4.71E-10	2.63E-07	6.47E-09	2.95E-08	0.00E+00	3.60E-08	3.97E-09	1.36E-08	0.00E+00	1.75E-08
4752	420903.24	3734987.74	4.50E-08	2.06E-07	4.50E-10	2.51E-07	6.17E-09	2.82E-08	0.00E+00	3.43E-08	3.79E-09	1.29E-08	0.00E+00	1.67E-08
4753	420894.42	3734991.41	4.29E-08	1.96E-07	4.29E-10	2.40E-07	5.88E-09	2.68E-08	0.00E+00	3.27E-08	3.61E-09	1.23E-08	0.00E+00	1.59E-08
4754	420885.6	3734995.07	4.08E-08	1.87E-07	4.08E-10	2.28E-07	5.59E-09	2.55E-08	0.00E+00	3.11E-08	3.43E-09	1.17E-08	0.00E+00	1.52E-08
4755	420876.78	3734998.73	3.86E-08	1.77E-07	3.86E-10	2.16E-07	5.30E-09	2.42E-08	0.00E+00	2.95E-08	3.25E-09	1.11E-08	0.00E+00	1.44E-08
4756	420867.96	3735002.4	3.65E-08	1.67E-07	3.65E-10	2.04E-07	5.00E-09	2.28E-08	0.00E+00	2.78E-08	3.07E-09	1.05E-08	0.00E+00	1.35E-08
4757	420859.13	3735006.06	3.42E-08	1.57E-07	3.42E-10	1.91E-07	4.69E-09	2.14E-08	0.00E+00	2.61E-08	2.88E-09	9.84E-09	0.00E+00	1.27E-08
4758	420850.31	3735009.73	3.21E-08	1.47E-07	3.20E-10	1.79E-07	4.39E-09	2.00E-08	0.00E+00	2.44E-08	2.70E-09	9.21E-09	0.00E+00	1.19E-08
4759	420841.49	3735013.39	2.99E-08	1.37E-07	2.99E-10	1.67E-07	4.10E-09	1.87E-08	0.00E+00	2.28E-08	2.52E-09	8.59E-09	0.00E+00	1.11E-08
4760	420832.67	3735017.05	2.78E-08	1.27E-07	2.78E-10	1.55E-07	3.82E-09	1.74E-08	0.00E+00	2.12E-08	2.34E-09	8.00E-09	0.00E+00	1.03E-08
4761	420823.85	3735020.72	2.58E-08	1.18E-07	2.58E-10	1.44E-07	3.54E-09	1.62E-08	0.00E+00	1.97E-08	2.17E-09	7.42E-09	0.00E+00	9.60E-09
4762	420815.02	3735024.38	2.39E-08	1.09E-07	2.39E-10	1.34E-07	3.28E-09	1.50E-08	0.00E+00	1.82E-08	2.01E-09	6.87E-09	0.00E+00	8.89E-09
4763	420770.92	3735042.7	1.61E-08	7.37E-08	1.61E-10	9.00E-08	2.21E-09	1.01E-08	0.00E+00	1.23E-08	1.36E-09	4.63E-09	0.00E+00	5.99E-09
4764	420762.09	3735046.36	1.48E-08	6.77E-08	1.48E-10	8.27E-08	2.03E-09	9.26E-09	0.00E+00	1.13E-08	1.25E-09	4.26E-09	0.00E+00	5.50E-09
4765	420753.27	3735050.03	1.36E-08	6.23E-08	1.36E-10	7.60E-08	1.87E-09	8.51E-09	0.00E+00	1.04E-08	1.15E-09	3.91E-09	0.00E+00	5.06E-09
4766	421404.45	3734391.24	5.66E-09	2.59E-08	5.66E-11	3.16E-08	7.76E-10	3.54E-09	0.00E+00	4.31E-09	4.76E-10	1.63E-09	0.00E+00	2.10E-09
4767	421404.41	3734381.54	5.39E-09	2.46E-08	5.39E-11	3.01E-08	7.39E-10	3.37E-09	0.00E+00	4.11E-09	4.54E-10	1.55E-09	0.00E+00	2.00E-09
4768	421404.37	3734371.84	5.14E-09	2.35E-08	5.14E-11	2.87E-08	7.05E-10	3.22E-09	0.00E+00	3.92E-09	4.33E-10	1.48E-09	0.00E+00	1.91E-09
4769	421404.34	3734362.14	4.95E-09	2.26E-08	4.94E-11	2.76E-08	6.78E-10	3.09E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
4770	421404.3	3734352.43	4.77E-09	2.18E-08	4.77E-11	2.66E-08	6.54E-10	2.98E-09	0.00E+00	3.64E-09	4.01E-10	1.37E-09	0.00E+00	1.77E-09
4771	421404.27	3734342.73	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
4772	421404.23	3734333.03	4.43E-09	2.03E-08	4.43E-11	2.47E-08	6.08E-10	2.77E-09	0.00E+00	3.38E-09	3.73E-10	1.27E-09	0.00E+00	1.65E-09
4773	421404.19	3734323.33	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.85E-10	2.67E-09	0.00E+00	3.25E-09	3.59E-10	1.23E-09	0.00E+00	1.59E-09
4774	421404.16	3734313.63	4.11E-09	1.88E-08	4.11E-11	2.30E-08	5.64E-10	2.57E-09	0.00E+00	3.14E-09	3.46E-10	1.18E-09	0.00E+00	1.53E-09
4775	421404.12	3734303.92	3.98E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.49E-09	0.00E+00	3.03E-09	3.34E-10	1.14E-09	0.00E+00	1.48E-09
4776	421404.09	3734294.22	3.85E-09	1.76E-08	3.84E-11	2.15E-08	5.27E-10	2.41E-09	0.00E+00	2.93E-09	3.24E-10	1.11E-09	0.00E+00	1.43E-09
4777	421422.58	3734444.31	6.75E-09	3.09E-08	6.75E-11	3.77E-08	9.25E-10	4.22E-09	0.00E+00	5.15E-09	5.68E-10	1.94E-09	0.00E+00	2.51E-09
4778	421418.93	3734453.17	7.09E-09	3.24E-08	7.09E-11	3.96E-08	9.72E-10	4.43E-09	0.00E+00	5.40E-09	5.96E-10	2.04E-09	0.00E+00	2.63E-09
4779	421415.29	3734462.04	7.45E-09	3.40E-08	7.44E-11	4.16E-08	1.02E-09	4.66E-09	0.00E+00	5.68E-09	6.27E-10	2.14E-09	0.00E+00	2.77E-09
4780	421411.64	3734470.91	7.83E-09	3.58E-08	7.82E-11	4.37E-08	1.07E-09	4.89E-09	0.00E+00	5.97E-09	6.59E-10	2.25E-09	0.00E+00	2.91E-09
4781	421408	3734479.78	8.22E-09	3.76E-08	8.21E-11	4.59E-08	1.13E-09	5.14E-09	0.00E+00	6.26E-09	6.91E-10	2.36E-09	0.00E+00	3.05E-09
4782	421404.35	3734488.65	8.63E-09	3.95E-08	8.62E-11	4.82E-08	1.18E-09	5.39E-09	0.00E+00	6.58E-09	7.26E-10	2.48E-09	0.00E+00	3.21E-09
4783	421400.71	3734497.52	9.07E-09	4.15E-08	9.06E-11	5.06E-08	1.24E-09	5.67E-09	0.00E+00	6.91E-09	7.63E-10	2.61E-09	0.00E+00	3.37E-09
4784	421367.91	3734577.34	1.39E-08	6.36E-08	1.39E-10	7.77E-08	1.91E-09	8.70E-09	0.00E+00	1.06E-08	1.17E-09	4.00E-09	0.00E+00	5.17E-09
4785	421364.26	3734586.21	1.46E-08	6.67E-08	1.46E-10	8.14E-08	2.00E-09	9.12E-09	0.00E+00	1.11E-08	1.23E-09	4.19E-09	0.00E+00	5.42E-09
4786	421360.62	3734595.08	1.53E-08	6.99E-08	1.53E-10	8.54E-08	2.10E-09	9.56E-09	0.00E+00	1.17E-08	1.29E-09	4.39E-09	0.00E+00	5.68E-09
4787	421356.97	3734603.94	1.60E-08	7.33E-08	1.60E-10	8.95E-08	2.20E-09	1.00E-08	0.00E+00	1.22E-08	1.35E-09	4.60E-09	0.00E+00	5.95E-09
4788	421353.33	3734612.81	1.68E-08	7.68E-08	1.68E-10	9.37E-08	2.30E-09	1.05E-08	0.00E+00	1.28E-08	1.41E-09	4.82E-09	0.00E+00	6.24E-09
4789	421349.68	3734621.68	1.76E-08	8.05E-08	1.76E-10	9.82E-08	2.41E-09	1.10E-08	0.00E+00	1.34E-08	1.48E-09	5.06E-09	0.00E+00	6.54E-09
4790	421346.04	3734630.55	1.84E-08	8.43E-08	1.84E-10	1.03E-07	2.53E-09	1.15E-08	0.00E+00	1.40E-08	1.55E-09	5.30E-09	0.00E+00	6.85E-09
4791	421342.39	3734639.42	1.93E-08	8.81E-08	1.93E-10	1.08E-07	2.64E-09	1.21E-08	0.00E+00	1.47E-08	1.62E-09	5.54E-09	0.00E+00	7.16E-09
4792	421338.75	3734648.29	2.01E-08	9.19E-08	2.01E-10	1.12E-07	2.76E-09	1.26E-08	0.00E+00	1.53E-08	1.69E-09	5.78E-09	0.00E+00	7.47E-09
4793	421335.1	3734657.16	2.10E-08	9.59E-08	2.10E-10	1.17E-07	2.87E-09	1.31E-08	0.00E+00	1.60E-08	1.76E-09	6.02E-09	0.00E+00	7.79E-09
4794	421331.46	3734666.03	2.18E-08	9.99E-08	2.18E-10	1.22E-07	2.99E-09	1.37E-08	0.00E+00	1.66E-08	1.84E-09	6.28E-09	0.00E+00	8.11E-09
4795	421327.81	3734674.89	2.27E-08	1.04E-07	2.27E-10	1.27E-07	3.11E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.53E-09	0.00E+00	8.44E-09
4796	421324.17	3734683.76	2.36E-08	1.08E-07	2.36E-10	1.32E-07	3.23E-09	1.47E-08	0.00E+00	1.80E-08	1.98E-09	6.78E-09	0.00E+00	8.76E-09

4797	421320.53	3734692.63	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.35E-09	1.53E-08	0.00E+00	1.86E-08	2.06E-09	7.02E-09	0.00E+00	9.08E-09
4798	421316.88	3734701.5	2.53E-08	1.15E-07	2.52E-10	1.41E-07	3.46E-09	1.58E-08	0.00E+00	1.93E-08	2.13E-09	7.26E-09	0.00E+00	9.38E-09
4799	421313.24	3734710.37	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.57E-09	1.63E-08	0.00E+00	1.98E-08	2.19E-09	7.48E-09	0.00E+00	9.67E-09
4800	421309.59	3734719.24	2.68E-08	1.22E-07	2.68E-10	1.50E-07	3.67E-09	1.67E-08	0.00E+00	2.04E-08	2.25E-09	7.70E-09	0.00E+00	9.95E-09
4801	421305.95	3734728.11	2.75E-08	1.26E-07	2.75E-10	1.54E-07	3.77E-09	1.72E-08	0.00E+00	2.10E-08	2.31E-09	7.91E-09	0.00E+00	1.02E-08
4802	421302.3	3734736.98	2.82E-08	1.29E-07	2.82E-10	1.57E-07	3.87E-09	1.76E-08	0.00E+00	2.15E-08	2.37E-09	8.10E-09	0.00E+00	1.05E-08
4803	421231.49	3734891.42	3.59E-08	1.64E-07	3.59E-10	2.00E-07	4.92E-09	2.24E-08	0.00E+00	2.74E-08	3.02E-09	1.03E-08	0.00E+00	1.33E-08
4804	421222.63	3734895.1	3.68E-08	1.68E-07	3.68E-10	2.05E-07	5.04E-09	2.30E-08	0.00E+00	2.81E-08	3.10E-09	1.06E-08	0.00E+00	1.37E-08
4805	421213.78	3734898.78	3.77E-08	1.72E-07	3.77E-10	2.10E-07	5.17E-09	2.36E-08	0.00E+00	2.87E-08	3.17E-09	1.08E-08	0.00E+00	1.40E-08
4806	421187.21	3734909.81	4.03E-08	1.84E-07	4.03E-10	2.25E-07	5.53E-09	2.52E-08	0.00E+00	3.07E-08	3.39E-09	1.16E-08	0.00E+00	1.50E-08
4807	421178.36	3734913.49	4.12E-08	1.88E-07	4.11E-10	2.30E-07	5.64E-09	2.57E-08	0.00E+00	3.14E-08	3.46E-09	1.18E-08	0.00E+00	1.53E-08
4808	421169.5	3734917.17	4.20E-08	1.92E-07	4.20E-10	2.35E-07	5.76E-09	2.63E-08	0.00E+00	3.20E-08	3.53E-09	1.21E-08	0.00E+00	1.56E-08
4809	421134.08	3734931.88	4.57E-08	2.09E-07	4.56E-10	2.55E-07	6.26E-09	2.86E-08	0.00E+00	3.48E-08	3.84E-09	1.31E-08	0.00E+00	1.70E-08
4810	421125.22	3734935.55	4.67E-08	2.13E-07	4.67E-10	2.61E-07	6.40E-09	2.92E-08	0.00E+00	3.56E-08	3.93E-09	1.34E-08	0.00E+00	1.73E-08
4811	421089.8	3734950.26	5.02E-08	2.30E-07	5.02E-10	2.80E-07	6.89E-09	3.14E-08	0.00E+00	3.83E-08	4.23E-09	1.44E-08	0.00E+00	1.87E-08
4812	421080.95	3734953.94	5.09E-08	2.33E-07	5.09E-10	2.84E-07	6.98E-09	3.18E-08	0.00E+00	3.88E-08	4.28E-09	1.46E-08	0.00E+00	1.89E-08
4813	421072.09	3734957.62	5.14E-08	2.35E-07	5.14E-10	2.87E-07	7.05E-09	3.21E-08	0.00E+00	3.92E-08	4.33E-09	1.48E-08	0.00E+00	1.91E-08
4814	421063.24	3734961.3	5.18E-08	2.37E-07	5.18E-10	2.89E-07	7.10E-09	3.24E-08	0.00E+00	3.95E-08	4.36E-09	1.49E-08	0.00E+00	1.92E-08
4815	421054.38	3734964.97	5.21E-08	2.38E-07	5.20E-10	2.91E-07	7.14E-09	3.25E-08	0.00E+00	3.97E-08	4.38E-09	1.50E-08	0.00E+00	1.93E-08
4816	421045.53	3734968.65	5.22E-08	2.39E-07	5.22E-10	2.91E-07	7.16E-09	3.26E-08	0.00E+00	3.98E-08	4.39E-09	1.50E-08	0.00E+00	1.94E-08
4817	421036.67	3734972.33	5.23E-08	2.39E-07	5.23E-10	2.92E-07	7.17E-09	3.27E-08	0.00E+00	3.99E-08	4.40E-09	1.50E-08	0.00E+00	1.94E-08
4818	421027.82	3734976.01	5.23E-08	2.39E-07	5.22E-10	2.92E-07	7.16E-09	3.27E-08	0.00E+00	3.98E-08	4.40E-09	1.50E-08	0.00E+00	1.94E-08
4819	421018.96	3734979.69	5.20E-08	2.38E-07	5.20E-10	2.90E-07	7.13E-09	3.25E-08	0.00E+00	3.96E-08	4.38E-09	1.49E-08	0.00E+00	1.93E-08
4820	420992.4	3734990.72	5.03E-08	2.30E-07	5.02E-10	2.81E-07	6.89E-09	3.14E-08	0.00E+00	3.83E-08	4.23E-09	1.44E-08	0.00E+00	1.87E-08
4821	420983.54	3734994.4	4.94E-08	2.26E-07	4.94E-10	2.76E-07	6.77E-09	3.09E-08	0.00E+00	3.77E-08	4.16E-09	1.42E-08	0.00E+00	1.83E-08
4822	420974.69	3734998.07	4.84E-08	2.21E-07	4.84E-10	2.70E-07	6.63E-09	3.03E-08	0.00E+00	3.69E-08	4.07E-09	1.39E-08	0.00E+00	1.80E-08
4823	420965.83	3735001.75	4.72E-08	2.16E-07	4.72E-10	2.64E-07	6.48E-09	2.95E-08	0.00E+00	3.60E-08	3.97E-09	1.36E-08	0.00E+00	1.75E-08
4824	420956.98	3735005.43	4.59E-08	2.10E-07	4.59E-10	2.56E-07	6.30E-09	2.87E-08	0.00E+00	3.50E-08	3.87E-09	1.32E-08	0.00E+00	1.71E-08
4825	420948.12	3735009.11	4.45E-08	2.03E-07	4.45E-10	2.48E-07	6.10E-09	2.78E-08	0.00E+00	3.39E-08	3.74E-09	1.28E-08	0.00E+00	1.65E-08
4826	420939.26	3735012.78	4.30E-08	1.96E-07	4.29E-10	2.40E-07	5.89E-09	2.69E-08	0.00E+00	3.28E-08	3.61E-09	1.23E-08	0.00E+00	1.60E-08
4827	420930.41	3735016.46	4.14E-08	1.89E-07	4.13E-10	2.31E-07	5.67E-09	2.59E-08	0.00E+00	3.15E-08	3.48E-09	1.19E-08	0.00E+00	1.54E-08
4828	420921.55	3735020.14	3.97E-08	1.81E-07	3.97E-10	2.22E-07	5.44E-09	2.48E-08	0.00E+00	3.02E-08	3.34E-09	1.14E-08	0.00E+00	1.47E-08
4829	420868.42	3735042.2	2.90E-08	1.33E-07	2.90E-10	1.62E-07	3.98E-09	1.82E-08	0.00E+00	2.21E-08	2.44E-09	8.34E-09	0.00E+00	1.08E-08
4830	420859.57	3735045.88	2.72E-08	1.24E-07	2.72E-10	1.52E-07	3.73E-09	1.70E-08	0.00E+00	2.07E-08	2.29E-09	7.82E-09	0.00E+00	1.01E-08
4831	420850.71	3735049.56	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.49E-09	1.59E-08	0.00E+00	1.94E-08	2.14E-09	7.31E-09	0.00E+00	9.45E-09
4832	420841.86	3735053.24	2.37E-08	1.08E-07	2.37E-10	1.32E-07	3.25E-09	1.48E-08	0.00E+00	1.81E-08	2.00E-09	6.81E-09	0.00E+00	8.81E-09
4833	420833	3735056.91	2.21E-08	1.01E-07	2.21E-10	1.23E-07	3.03E-09	1.38E-08	0.00E+00	1.68E-08	1.86E-09	6.35E-09	0.00E+00	8.21E-09
4834	420779.87	3735078.98	1.41E-08	6.45E-08	1.41E-10	7.87E-08	1.93E-09	8.82E-09	0.00E+00	1.08E-08	1.19E-09	4.05E-09	0.00E+00	5.24E-09
4835	420771.02	3735082.66	1.30E-08	5.94E-08	1.30E-10	7.26E-08	1.78E-09	8.13E-09	0.00E+00	9.91E-09	1.09E-09	3.74E-09	0.00E+00	4.83E-09
4836	420762.16	3735086.33	1.20E-08	5.48E-08	1.20E-10	6.69E-08	1.64E-09	7.49E-09	0.00E+00	9.14E-09	1.01E-09	3.44E-09	0.00E+00	4.45E-09
4837	421444.45	3734391.09	5.11E-09	2.33E-08	5.10E-11	2.85E-08	7.00E-10	3.19E-09	0.00E+00	3.89E-09	4.30E-10	1.47E-09	0.00E+00	1.90E-09
4838	421444.41	3734381.39	4.91E-09	2.25E-08	4.91E-11	2.74E-08	6.74E-10	3.07E-09	0.00E+00	3.75E-09	4.13E-10	1.41E-09	0.00E+00	1.83E-09
4839	421444.37	3734371.69	4.72E-09	2.16E-08	4.72E-11	2.63E-08	6.47E-10	2.95E-09	0.00E+00	3.60E-09	3.97E-10	1.36E-09	0.00E+00	1.75E-09
4840	421444.34	3734361.99	4.54E-09	2.07E-08	4.53E-11	2.53E-08	6.22E-10	2.84E-09	0.00E+00	3.46E-09	3.82E-10	1.30E-09	0.00E+00	1.69E-09
4841	421444.3	3734352.28	4.36E-09	2.00E-08	4.36E-11	2.44E-08	5.98E-10	2.73E-09	0.00E+00	3.33E-09	3.67E-10	1.25E-09	0.00E+00	1.62E-09
4842	421444.27	3734342.58	4.20E-09	1.92E-08	4.20E-11	2.35E-08	5.76E-10	2.63E-09	0.00E+00	3.20E-09	3.53E-10	1.21E-09	0.00E+00	1.56E-09
4843	421444.23	3734332.88	4.04E-09	1.85E-08	4.04E-11	2.26E-08	5.54E-10	2.53E-09	0.00E+00	3.08E-09	3.40E-10	1.16E-09	0.00E+00	1.50E-09
4844	421444.19	3734323.18	3.90E-09	1.78E-08	3.90E-11	2.18E-08	5.34E-10	2.44E-09	0.00E+00	2.97E-09	3.28E-10	1.12E-09	0.00E+00	1.45E-09
4845	421444.16	3734313.48	3.76E-09	1.72E-08	3.76E-11	2.10E-08	5.15E-10	2.35E-09	0.00E+00	2.87E-09	3.16E-10	1.08E-09	0.00E+00	1.40E-09
4846	421444.12	3734303.77	3.64E-09	1.67E-08	3.64E-11	2.03E-08	4.99E-10	2.28E-09	0.00E+00	2.78E-09	3.07E-10	1.05E-09	0.00E+00	1.35E-09
4847	421444.09	3734294.07	3.54E-09	1.62E-08	3.54E-11	1.98E-08	4.85E-10	2.21E-09	0.00E+00	2.70E-09	2.98E-10	1.02E-09	0.00E+00	1.31E-09
4848	420761.36	3734252.04	2.29E-08	1.05E-07	2.29E-10	1.28E-07	3.14E-09	1.43E-08	0.00E+00	1.75E-08	1.93E-09	6.59E-09	0.00E+00	8.52E-09
4849	420763.1	3734242.07	2.07E-08	9.47E-08	2.07E-10	1.16E-07	2.84E-09	1.30E-08	0.00E+00	1.58E-08	1.74E-09	5.95E-09	0.00E+00	7.70E-09
4850	420776.82	3734250.38	2.25E-08	1.03E-07	2.25E-10	1.26E-07	3.08E-09	1.41E-08	0.00E+00	1.71E-08	1.89E-09	6.46E-09	0.00E+00	8.36E-09
4851	420764.94	3734232.16	1.88E-08	8.60E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	0.00E+00	1.43E-08	1.58E-09	5.41E-09	0.00E+00	6.99E-09
4852	420778.28	3734240.24	2.03E-08	9.29E-08	2.03E-10	1.13E-07	2.79E-09	1.27E-08	0.00E+00	1.55E-08	1.71E-09	5.84E-09	0.00E+00	7.55E-09
4853	420791.62	3734248.33	2.18E-08	9.98E-08	2.18E-10	1.22E-07	2.99E-09	1.36E-08	0.00E+00	1.66E-08	1.84E-09	6.27E-09	0.00E+00	8.11E-09
4854	420800.92	3734259.71	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.51E-08	0.00E+00	1.84E-08	2.03E-09	6.95E-09	0.00E+00	8.98E-09
4855	420767.92	3734222.95	1.73E-08	7.89E-08	1.73E-10	9.64E-08	2.37E-09	1.08E-08	0.00E+00	1.32E-08	1.45E-09	4.96E-09	0.00E+00	6.41E-09
4856	420783.16	3734232.18	1.88E-08	8.59E-08	1.88E-10	1.05E-07	2.58E-09	1.17E-08	0.00E+00	1.43E-08	1.58E-09	5.40E-09	0.00E+00	6.98E-09
4857	420798.41	3734241.42	2.03E-08	9.27E-08	2.03E-10	1.13E-07	2.78E-09	1.27E-08	0.00E+00	1.55E-08	1.71E-09	5.83E-09	0.00E+00	7.53E-09
4858	420809.04	3734254.43	2.27E-08	1.04E-07	2.26E-10	1.26E-07	3.11E-09	1.42E-08	0.00E+00	1.73E-08	1.91E-09	6.51E-09	0.00E+00	8.42E-09
4859	420769.67	3734212.99	1.58E-08	7.22E-08	1.58E-10	8.81E-08	2.16E-09	9.87E-09	0.00E+00	1.20E-08	1.33E-09	4.54E-09	0.00E+00	5.86E-09
4860	420784.37	3734221.9	1.71E-08	7.81E-08	1.71E-10	9.54E-08	2.34E-09	1.07E-08	0.00E+00	1.30E-08	1.44E-09	4.91E-09	0.00E+00	6.35E-09
4861	420799.07	3734230.8	1.84E-08	8.40E-08	1.84E-10	1.03E-07	2.52E-09	1.15E-08	0.00E+00	1.40E-08	1.55E-09	5.28E-09	0.00E+00	6.82E-09
4862	420771.49	3734203.07	1.45E-08	6.62E-08	1.45E-10	8.09E-08	1.99E-09	9.06E-09	0.00E+00	1.10E-08	1.22E-09	4.16E-09	0.00E+00	5.38E-09
4863	420785.79	3734211.73	1.56E-08	7.14E-08	1.56E-10	8.71E-08	2.14E-09	9.76E-09	0.00E+00	1.19E-08	1.31E-09	4.48E-09	0.00E+00	5.80E-09
4864	420800.08	3734220.39	1.67E-08	7.65E-08	1.67E-10	9.34E-08	2.29E-09	1.05E-08	0.00E+00	1.27E-08	1.41E-09	4.81E-09	0.00E+00	6.21E-09
4865	420814.37	3734229.05	1.78E-08	8.14E-08	1.78E-10	9.94E-08	2.44E-09	1.11E-08	0.00E+00	1.36E-08	1.50E-09	5.12E-09	0.00E+00	6.61E-09
4866	420776.02	3734183.78	1.24E-08	5.65E-08	1.24E-10	6.90E-08	1.70E-09	7.73E-09	0.00E+00	9.43E-09	1.04E-09	3.55E-09	0.00E+00	4.59E-09
4867	420791.27	3734193.01	1.33E-08	6.09E-08	1.33E-10	7.44E-08	1.83E-09	8.33E-09	0.00E+00	1.02E-08	1.12E-09	3.83E-09	0.00E+00	4.95E-09
4868	420806.51	3734202.25	1.43E-08	6.53E-08	1.43E-10	7.97E-08	1.96E-09	8.92E-09	0.00E+00	1.09E-08	1.20E-09	4.10E-09	0.00E+00	5.30E-09
4869	420821.76	3734211.49	1.52E-08	6.95E-08	1.52E-10	8.49E-08	2.08E-09	9.51E-09	0.00E+00	1.16E-08	1.28E-09	4.37E-09	0.00E+00	5.65E-09
4870	420846.03	3734245.89	1.95E-08	8.92E-08	1.95E-10	1.09E-07	2.68E-09	1.22E-08	0.00E+00	1.49E-08	1.64E-09	5.61E-09	0.00E+00	7.25E-09
4871	420794.28	3734172.8	1.14E-08	5.20E-08	1.14E-10	6.34E-08	1.56E-09	7.10E-09	0.00E+00	8.66E-09	9.56E-10	3.27E-09	0.00E+00	4.22E-09

4872	420808.83	3734181.62	1.21E-08	5.53E-08	1.21E-10	6.76E-08	1.66E-09	7.57E-09	0.00E+00	9.23E-09	1.02E-09	3.48E-09	0.00E+00	4.50E-09
4873	420823.38	3734190.43	1.28E-08	5.87E-08	1.28E-10	7.16E-08	1.76E-09	8.02E-09	0.00E+00	9.78E-09	1.08E-09	3.69E-09	0.00E+00	4.77E-09
4874	420855.36	3734216.07	1.50E-08	6.87E-08	1.50E-10	8.39E-08	2.06E-09	9.40E-09	0.00E+00	1.15E-08	1.26E-09	4.32E-09	0.00E+00	5.58E-09
4875	420861.1	3734232.09	1.68E-08	7.70E-08	1.68E-10	9.40E-08	2.31E-09	1.05E-08	0.00E+00	1.28E-08	1.42E-09	4.84E-09	0.00E+00	6.26E-09
4876	420866.85	3734248.11	1.88E-08	8.62E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	0.00E+00	1.44E-08	1.59E-09	5.42E-09	0.00E+00	7.00E-09
4877	420784.12	3734144.61	9.25E-09	4.23E-08	9.25E-11	5.16E-08	1.27E-09	5.78E-09	0.00E+00	7.05E-09	7.78E-10	2.66E-09	0.00E+00	3.44E-09
4878	420829.86	3734172.32	1.12E-08	5.10E-08	1.12E-10	6.23E-08	1.53E-09	6.98E-09	0.00E+00	8.51E-09	9.39E-10	3.21E-09	0.00E+00	4.14E-09
4879	420860.35	3734190.79	1.23E-08	5.64E-08	1.23E-10	6.89E-08	1.69E-09	7.72E-09	0.00E+00	9.41E-09	1.04E-09	3.55E-09	0.00E+00	4.58E-09
4880	420870.98	3734203.8	1.33E-08	6.09E-08	1.33E-10	7.44E-08	1.83E-09	8.33E-09	0.00E+00	1.02E-08	1.12E-09	3.83E-09	0.00E+00	4.95E-09
4881	420873.99	3734212.19	1.41E-08	6.44E-08	1.41E-10	7.86E-08	1.93E-09	8.80E-09	0.00E+00	1.07E-08	1.18E-09	4.05E-09	0.00E+00	5.23E-09
4882	420880.01	3734228.97	1.57E-08	7.18E-08	1.57E-10	8.77E-08	2.15E-09	9.82E-09	0.00E+00	1.20E-08	1.32E-09	4.51E-09	0.00E+00	5.83E-09
4883	420886.03	3734245.74	1.75E-08	8.00E-08	1.75E-10	9.76E-08	2.40E-09	1.09E-08	0.00E+00	1.33E-08	1.47E-09	5.03E-09	0.00E+00	6.50E-09
4884	420889.04	3734254.13	1.84E-08	8.43E-08	1.84E-10	1.03E-07	2.53E-09	1.15E-08	0.00E+00	1.41E-08	1.55E-09	5.30E-09	0.00E+00	6.85E-09
4885	420787.9	3734124.86	8.10E-09	3.70E-08	8.10E-11	4.52E-08	1.11E-09	5.07E-09	0.00E+00	6.18E-09	6.82E-10	2.33E-09	0.00E+00	3.01E-09
4886	420802.6	3734133.76	8.61E-09	3.94E-08	8.61E-11	4.81E-08	1.18E-09	5.38E-09	0.00E+00	6.56E-09	7.24E-10	2.47E-09	0.00E+00	3.20E-09
4887	420817.3	3734142.67	9.12E-09	4.17E-08	9.11E-11	5.09E-08	1.25E-09	5.70E-09	0.00E+00	6.95E-09	7.67E-10	2.62E-09	0.00E+00	3.39E-09
4888	420876.11	3734178.3	1.11E-08	5.05E-08	1.10E-10	6.17E-08	1.51E-09	6.91E-09	0.00E+00	8.42E-09	9.30E-10	3.18E-09	0.00E+00	4.11E-09
4889	420886.36	3734190.84	1.18E-08	5.41E-08	1.18E-10	6.60E-08	1.62E-09	7.39E-09	0.00E+00	9.01E-09	9.95E-10	3.40E-09	0.00E+00	4.39E-09
4890	420892.16	3734207.02	1.30E-08	5.96E-08	1.30E-10	7.28E-08	1.79E-09	8.15E-09	0.00E+00	9.94E-09	1.10E-09	3.75E-09	0.00E+00	4.85E-09
4891	420897.97	3734223.2	1.44E-08	6.57E-08	1.44E-10	8.02E-08	1.97E-09	8.98E-09	0.00E+00	1.10E-08	1.21E-09	4.13E-09	0.00E+00	5.34E-09
4892	420903.77	3734239.38	1.58E-08	7.23E-08	1.58E-10	8.82E-08	2.17E-09	9.88E-09	0.00E+00	1.20E-08	1.33E-09	4.54E-09	0.00E+00	5.87E-09
4893	420909.58	3734255.56	1.73E-08	7.92E-08	1.73E-10	9.67E-08	2.38E-09	1.08E-08	0.00E+00	1.32E-08	1.46E-09	4.98E-09	0.00E+00	6.44E-09
4894	420792.23	3734105.43	7.17E-09	3.28E-08	7.16E-11	4.00E-08	9.82E-10	4.48E-09	0.00E+00	5.46E-09	6.03E-10	2.06E-09	0.00E+00	2.66E-09
4895	420807.47	3734114.67	7.61E-09	3.48E-08	7.60E-11	4.25E-08	1.04E-09	4.76E-09	0.00E+00	5.80E-09	6.40E-10	2.19E-09	0.00E+00	2.83E-09
4896	420822.72	3734123.91	8.05E-09	3.68E-08	8.05E-11	4.49E-08	1.10E-09	5.03E-09	0.00E+00	6.14E-09	6.77E-10	2.31E-09	0.00E+00	2.99E-09
4897	420837.96	3734133.15	8.49E-09	3.88E-08	8.49E-11	4.74E-08	1.16E-09	5.31E-09	0.00E+00	6.47E-09	7.14E-10	2.44E-09	0.00E+00	3.15E-09
4898	420883.7	3734160.86	9.74E-09	4.45E-08	9.74E-11	5.44E-08	1.34E-09	6.09E-09	0.00E+00	7.43E-09	8.20E-10	2.80E-09	0.00E+00	3.62E-09
4899	420901.95	3734178.48	1.06E-08	4.84E-08	1.06E-10	5.91E-08	1.45E-09	6.62E-09	0.00E+00	8.07E-09	8.91E-10	3.04E-09	0.00E+00	3.93E-09
4900	420907.97	3734195.26	1.16E-08	5.32E-08	1.16E-10	6.50E-08	1.60E-09	7.28E-09	0.00E+00	8.88E-09	9.80E-10	3.35E-09	0.00E+00	4.33E-09
4901	420910.98	3734203.65	1.22E-08	5.58E-08	1.22E-10	6.81E-08	1.67E-09	7.63E-09	0.00E+00	9.30E-09	1.03E-09	3.51E-09	0.00E+00	4.53E-09
4902	420917	3734220.43	1.34E-08	6.12E-08	1.34E-10	7.47E-08	1.83E-09	8.37E-09	0.00E+00	1.02E-08	1.13E-09	3.85E-09	0.00E+00	4.97E-09
4903	420923.02	3734237.21	1.46E-08	6.69E-08	1.46E-10	8.17E-08	2.01E-09	9.15E-09	0.00E+00	1.12E-08	1.23E-09	4.21E-09	0.00E+00	5.44E-09
4904	420929.04	3734253.98	1.60E-08	7.29E-08	1.59E-10	8.90E-08	2.19E-09	9.97E-09	0.00E+00	1.22E-08	1.34E-09	4.58E-09	0.00E+00	5.93E-09
4905	420796.52	3734085.99	6.38E-09	2.92E-08	6.38E-11	3.56E-08	8.75E-10	3.99E-09	0.00E+00	4.87E-09	5.37E-10	1.83E-09	0.00E+00	2.37E-09
4906	420804.38	3734090.76	6.57E-09	3.01E-08	6.57E-11	3.67E-08	9.01E-10	4.11E-09	0.00E+00	5.01E-09	5.53E-10	1.89E-09	0.00E+00	2.44E-09
4907	420812.24	3734095.52	6.76E-09	3.09E-08	6.76E-11	3.78E-08	9.27E-10	4.23E-09	0.00E+00	5.16E-09	5.69E-10	1.94E-09	0.00E+00	2.51E-09
4908	420820.1	3734100.28	6.95E-09	3.18E-08	6.95E-11	3.88E-08	9.53E-10	4.35E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
4909	420827.96	3734105.05	7.15E-09	3.27E-08	7.14E-11	3.99E-08	9.80E-10	4.47E-09	0.00E+00	5.45E-09	6.01E-10	2.05E-09	0.00E+00	2.66E-09
4910	420835.82	3734109.81	7.34E-09	3.36E-08	7.34E-11	4.10E-08	1.01E-09	4.59E-09	0.00E+00	5.60E-09	6.18E-10	2.11E-09	0.00E+00	2.73E-09
4911	420843.68	3734114.57	7.53E-09	3.44E-08	7.53E-11	4.21E-08	1.03E-09	4.71E-09	0.00E+00	5.74E-09	6.34E-10	2.16E-09	0.00E+00	2.80E-09
4912	420906.56	3734152.67	8.95E-09	4.09E-08	8.94E-11	5.00E-08	1.23E-09	5.59E-09	0.00E+00	6.82E-09	7.53E-10	2.57E-09	0.00E+00	3.32E-09
4913	420917.53	3734166.09	9.53E-09	4.36E-08	9.52E-11	5.32E-08	1.31E-09	5.96E-09	0.00E+00	7.26E-09	8.02E-10	2.74E-09	0.00E+00	3.54E-09
4914	420920.63	3734174.74	9.98E-09	4.56E-08	9.97E-11	5.57E-08	1.37E-09	6.24E-09	0.00E+00	7.61E-09	8.39E-10	2.87E-09	0.00E+00	3.71E-09
4915	420923.74	3734183.39	1.04E-08	4.78E-08	1.04E-10	5.83E-08	1.43E-09	6.53E-09	0.00E+00	7.96E-09	8.79E-10	3.00E-09	0.00E+00	3.88E-09
4916	420926.84	3734192.04	1.09E-08	5.00E-08	1.09E-10	6.10E-08	1.50E-09	6.83E-09	0.00E+00	8.33E-09	9.19E-10	3.14E-09	0.00E+00	4.06E-09
4917	420929.95	3734200.69	1.14E-08	5.22E-08	1.14E-10	6.38E-08	1.57E-09	7.14E-09	0.00E+00	8.71E-09	9.61E-10	3.28E-09	0.00E+00	4.24E-09
4918	420933.05	3734209.34	1.19E-08	5.46E-08	1.19E-10	6.67E-08	1.64E-09	7.47E-09	0.00E+00	9.10E-09	1.00E-09	3.43E-09	0.00E+00	4.44E-09
4919	420936.15	3734217.99	1.25E-08	5.70E-08	1.25E-10	6.96E-08	1.71E-09	7.79E-09	0.00E+00	9.50E-09	1.05E-09	3.58E-09	0.00E+00	4.63E-09
4920	420939.26	3734226.65	1.30E-08	5.95E-08	1.30E-10	7.26E-08	1.78E-09	8.13E-09	0.00E+00	9.92E-09	1.09E-09	3.74E-09	0.00E+00	4.83E-09
4921	420942.36	3734235.3	1.36E-08	6.20E-08	1.36E-10	7.57E-08	1.86E-09	8.48E-09	0.00E+00	1.03E-08	1.14E-09	3.90E-09	0.00E+00	5.04E-09
4922	420945.46	3734243.95	1.41E-08	6.45E-08	1.41E-10	7.88E-08	1.94E-09	8.83E-09	0.00E+00	1.08E-08	1.19E-09	4.06E-09	0.00E+00	5.24E-09
4923	420948.57	3734252.6	1.47E-08	6.71E-08	1.47E-10	8.20E-08	2.01E-09	9.18E-09	0.00E+00	1.12E-08	1.24E-09	4.22E-09	0.00E+00	5.46E-09
4924	420960.98	3734287.2	1.71E-08	7.80E-08	1.71E-10	9.52E-08	2.34E-09	1.07E-08	0.00E+00	1.30E-08	1.44E-09	4.90E-09	0.00E+00	6.34E-09
4925	420807.95	3734070.88	5.87E-09	2.68E-08	5.86E-11	3.28E-08	8.04E-10	3.67E-09	0.00E+00	4.47E-09	4.94E-10	1.69E-09	0.00E+00	2.18E-09
4926	420823.2	3734080.12	6.18E-09	2.83E-08	6.18E-11	3.45E-08	8.47E-10	3.86E-09	0.00E+00	4.71E-09	5.20E-10	1.78E-09	0.00E+00	2.30E-09
4927	420838.44	3734089.36	6.50E-09	2.97E-08	6.49E-11	3.63E-08	8.91E-10	4.06E-09	0.00E+00	4.95E-09	5.47E-10	1.87E-09	0.00E+00	2.41E-09
4928	420853.69	3734098.59	6.82E-09	3.12E-08	6.81E-11	3.81E-08	9.35E-10	4.26E-09	0.00E+00	5.20E-09	5.74E-10	1.96E-09	0.00E+00	2.53E-09
4929	420914.67	3734135.54	7.99E-09	3.65E-08	7.98E-11	4.46E-08	1.10E-09	4.99E-09	0.00E+00	6.09E-09	6.72E-10	2.30E-09	0.00E+00	2.97E-09
4930	420932.92	3734153.17	8.59E-09	3.93E-08	8.58E-11	4.79E-08	1.18E-09	5.37E-09	0.00E+00	6.54E-09	7.22E-10	2.47E-09	0.00E+00	3.19E-09
4931	420938.94	3734169.95	9.34E-09	4.27E-08	9.33E-11	5.21E-08	1.28E-09	5.84E-09	0.00E+00	7.12E-09	7.86E-10	2.68E-09	0.00E+00	3.47E-09
4932	420944.96	3734186.72	1.01E-08	4.63E-08	1.01E-10	5.66E-08	1.39E-09	6.34E-09	0.00E+00	7.73E-09	8.53E-10	2.91E-09	0.00E+00	3.77E-09
4933	420950.98	3734203.5	1.10E-08	5.02E-08	1.10E-10	6.13E-08	1.50E-09	6.86E-09	0.00E+00	8.37E-09	9.23E-10	3.15E-09	0.00E+00	4.08E-09
4934	420953.99	3734211.89	1.14E-08	5.21E-08	1.14E-10	6.37E-08	1.56E-09	7.13E-09	0.00E+00	8.69E-09	9.60E-10	3.28E-09	0.00E+00	4.24E-09
4935	420960.01	3734228.67	1.23E-08	5.62E-08	1.23E-10	6.86E-08	1.68E-09	7.68E-09	0.00E+00	9.37E-09	1.03E-09	3.53E-09	0.00E+00	4.56E-09
4936	420966.03	3734245.45	1.32E-08	6.03E-08	1.32E-10	7.36E-08	1.81E-09	8.25E-09	0.00E+00	1.01E-08	1.11E-09	3.79E-09	0.00E+00	4.90E-09
4937	420812.4	3734051.54	5.28E-09	2.41E-08	5.28E-11	2.95E-08	7.24E-10	3.30E-09	0.00E+00	4.03E-09	4.44E-10	1.52E-09	0.00E+00	1.96E-09
4938	420820.23	3734056.28	5.42E-09	2.48E-08	5.42E-11	3.02E-08	7.43E-10	3.39E-09	0.00E+00	4.13E-09	4.56E-10	1.56E-09	0.00E+00	2.01E-09
4939	420828.05	3734061.02	5.56E-09	2.54E-08	5.55E-11	3.10E-08	7.62E-10	3.47E-09	0.00E+00	4.24E-09	4.68E-10	1.60E-09	0.00E+00	2.06E-09
4940	420835.87	3734065.76	5.70E-09	2.60E-08	5.69E-11	3.18E-08	7.81E-10	3.56E-09	0.00E+00	4.34E-09	4.79E-10	1.64E-09	0.00E+00	2.12E-09
4941	420843.7	3734070.5	5.84E-09	2.67E-08	5.83E-11	3.26E-08	8.00E-10	3.65E-09	0.00E+00	4.45E-09	4.91E-10	1.68E-09	0.00E+00	2.17E-09
4942	420851.52	3734075.24	5.98E-09	2.73E-08	5.97E-11	3.34E-08	8.19E-10	3.74E-09	0.00E+00	4.56E-09	5.03E-10	1.72E-09	0.00E+00	2.22E-09
4943	420906.28	3734108.42	6.92E-09	3.16E-08	6.92E-11	3.86E-08	9.49E-10	4.33E-09	0.00E+00	5.27E-09	5.82E-10	1.99E-09	0.00E+00	2.57E-09
4944	420914.1	3734113.16	7.04E-09	3.22E-08	7.04E-11	3.93E-08	9.66E-10	4.40E-09	0.00E+00	5.37E-09	5.93E-10	2.02E-09	0.00E+00	2.62E-09
4945	420921.93	3734117.9	7.16E-09	3.27E-08	7.16E-11	4.00E-08	9.82E-10	4.48E-09	0.00E+00	5.46E-09	6.03E-10	2.06E-09	0.00E+00	2.66E-09
4946	420929.75	3734122.64	7.27E-09	3.32E-08	7.27E-11	4.06E-08	9.97E-10	4.55E-09	0.00E+00	5.54E-09	6.12E-10	2.09E-09	0.00E+00	2.70E-09

4947	420937.57	3734127.38	7.38E-09	3.37E-08	7.37E-11	4.12E-08	1.01E-09	4.61E-09	0.00E+00	5.62E-09	6.21E-10	2.12E-09	0.00E+00	2.74E-09
4948	420948.48	3734140.73	7.79E-09	3.56E-08	7.78E-11	4.35E-08	1.07E-09	4.87E-09	0.00E+00	5.94E-09	6.55E-10	2.24E-09	0.00E+00	2.89E-09
4949	420951.57	3734149.34	8.11E-09	3.71E-08	8.11E-11	4.53E-08	1.11E-09	5.07E-09	0.00E+00	6.18E-09	6.83E-10	2.33E-09	0.00E+00	3.01E-09
4950	420954.66	3734157.95	8.45E-09	3.86E-08	8.44E-11	4.72E-08	1.16E-09	5.28E-09	0.00E+00	6.44E-09	7.11E-10	2.43E-09	0.00E+00	3.14E-09
4951	420957.75	3734166.56	8.79E-09	4.02E-08	8.79E-11	4.91E-08	1.21E-09	5.50E-09	0.00E+00	6.70E-09	7.40E-10	2.53E-09	0.00E+00	3.27E-09
4952	420960.84	3734175.17	9.15E-09	4.18E-08	9.14E-11	5.10E-08	1.25E-09	5.72E-09	0.00E+00	6.97E-09	7.69E-10	2.63E-09	0.00E+00	3.40E-09
4953	420963.93	3734183.78	9.51E-09	4.35E-08	9.50E-11	5.31E-08	1.30E-09	5.94E-09	0.00E+00	7.25E-09	8.00E-10	2.73E-09	0.00E+00	3.53E-09
4954	420967.02	3734192.39	9.87E-09	4.51E-08	9.87E-11	5.51E-08	1.35E-09	6.17E-09	0.00E+00	7.53E-09	8.31E-10	2.84E-09	0.00E+00	3.67E-09
4955	420970.11	3734201	1.02E-08	4.68E-08	1.02E-10	5.72E-08	1.40E-09	6.40E-09	0.00E+00	7.81E-09	8.62E-10	2.94E-09	0.00E+00	3.80E-09
4956	420973.2	3734209.61	1.06E-08	4.85E-08	1.06E-10	5.93E-08	1.46E-09	6.64E-09	0.00E+00	8.09E-09	8.93E-10	3.05E-09	0.00E+00	3.94E-09
4957	420976.29	3734218.22	1.10E-08	5.03E-08	1.10E-10	6.14E-08	1.51E-09	6.88E-09	0.00E+00	8.39E-09	9.25E-10	3.16E-09	0.00E+00	4.09E-09
4958	420979.38	3734226.83	1.14E-08	5.20E-08	1.14E-10	6.35E-08	1.56E-09	7.12E-09	0.00E+00	8.68E-09	9.58E-10	3.27E-09	0.00E+00	4.23E-09
4959	420982.46	3734235.44	1.18E-08	5.38E-08	1.18E-10	6.57E-08	1.61E-09	7.36E-09	0.00E+00	8.97E-09	9.90E-10	3.38E-09	0.00E+00	4.37E-09
4960	420985.55	3734244.05	1.22E-08	5.56E-08	1.22E-10	6.79E-08	1.67E-09	7.60E-09	0.00E+00	9.27E-09	1.02E-09	3.49E-09	0.00E+00	4.52E-09
4961	420988.64	3734252.66	1.26E-08	5.74E-08	1.25E-10	7.01E-08	1.72E-09	7.85E-09	0.00E+00	9.57E-09	1.06E-09	3.61E-09	0.00E+00	4.66E-09
4962	421001	3734287.1	1.42E-08	6.50E-08	1.42E-10	7.93E-08	1.95E-09	8.88E-09	0.00E+00	1.08E-08	1.20E-09	4.08E-09	0.00E+00	5.28E-09
4963	420816.05	3734031.71	4.76E-09	2.18E-08	4.76E-11	2.66E-08	6.53E-10	2.98E-09	0.00E+00	3.63E-09	4.01E-10	1.37E-09	0.00E+00	1.77E-09
4964	420831.3	3734040.95	5.00E-09	2.28E-08	4.99E-11	2.79E-08	6.85E-10	3.12E-09	0.00E+00	3.81E-09	4.20E-10	1.44E-09	0.00E+00	1.86E-09
4965	420846.54	3734050.19	5.23E-09	2.39E-08	5.23E-11	2.92E-08	7.17E-10	3.27E-09	0.00E+00	3.99E-09	4.40E-10	1.50E-09	0.00E+00	1.94E-09
4966	420907.52	3734087.13	6.16E-09	2.81E-08	6.15E-11	3.44E-08	8.44E-10	3.85E-09	0.00E+00	4.69E-09	5.18E-10	1.77E-09	0.00E+00	2.29E-09
4967	420922.77	3734096.37	6.37E-09	2.91E-08	6.37E-11	3.56E-08	8.73E-10	3.98E-09	0.00E+00	4.86E-09	5.36E-10	1.83E-09	0.00E+00	2.37E-09
4968	420938.01	3734105.61	6.57E-09	3.00E-08	6.56E-11	3.67E-08	9.00E-10	4.11E-09	0.00E+00	5.01E-09	5.52E-10	1.89E-09	0.00E+00	2.44E-09
4969	420953.26	3734114.85	6.74E-09	3.08E-08	6.74E-11	3.76E-08	9.24E-10	4.21E-09	0.00E+00	5.14E-09	5.67E-10	1.94E-09	0.00E+00	2.50E-09
4970	420963.89	3734127.85	7.08E-09	3.24E-08	7.08E-11	3.95E-08	9.71E-10	4.43E-09	0.00E+00	5.40E-09	5.96E-10	2.03E-09	0.00E+00	2.63E-09
4971	420966.9	3734136.24	7.35E-09	3.36E-08	7.35E-11	4.10E-08	1.01E-09	4.60E-09	0.00E+00	5.60E-09	6.18E-10	2.11E-09	0.00E+00	2.73E-09
4972	420969.91	3734144.63	7.63E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.77E-09	0.00E+00	5.82E-09	6.42E-10	2.19E-09	0.00E+00	2.83E-09
4973	420975.93	3734161.41	8.21E-09	3.75E-08	8.20E-11	4.58E-08	1.12E-09	5.13E-09	0.00E+00	6.25E-09	6.90E-10	2.36E-09	0.00E+00	3.05E-09
4974	420981.95	3734178.19	8.80E-09	4.02E-08	8.80E-11	4.91E-08	1.21E-09	5.50E-09	0.00E+00	6.71E-09	7.41E-10	2.53E-09	0.00E+00	3.27E-09
4975	420987.97	3734194.96	9.42E-09	4.30E-08	9.41E-11	5.26E-08	1.29E-09	5.89E-09	0.00E+00	7.18E-09	7.92E-10	2.71E-09	0.00E+00	3.50E-09
4976	420993.99	3734211.74	1.00E-08	4.59E-08	1.00E-10	5.60E-08	1.38E-09	6.28E-09	0.00E+00	7.65E-09	8.45E-10	2.89E-09	0.00E+00	3.73E-09
4977	420997	3734220.13	1.04E-08	4.74E-08	1.04E-10	5.78E-08	1.42E-09	6.48E-09	0.00E+00	7.90E-09	8.71E-10	2.98E-09	0.00E+00	3.85E-09
4978	421003.02	3734236.91	1.10E-08	5.02E-08	1.10E-10	6.13E-08	1.51E-09	6.87E-09	0.00E+00	8.38E-09	9.24E-10	3.16E-09	0.00E+00	4.08E-09
4979	421021.08	3734287.24	1.30E-08	5.95E-08	1.30E-10	7.27E-08	1.78E-09	8.14E-09	0.00E+00	9.92E-09	1.09E-09	3.74E-09	0.00E+00	4.83E-09
4980	420820.45	3734012.34	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	0.00E+00	3.30E-09	3.64E-10	1.24E-09	0.00E+00	1.61E-09
4981	420828.25	3734017.06	4.43E-09	2.03E-08	4.43E-11	2.47E-08	6.08E-10	2.77E-09	0.00E+00	3.38E-09	3.73E-10	1.27E-09	0.00E+00	1.65E-09
4982	420836.04	3734021.78	4.54E-09	2.07E-08	4.53E-11	2.53E-08	6.22E-10	2.84E-09	0.00E+00	3.46E-09	3.82E-10	1.30E-09	0.00E+00	1.68E-09
4983	420843.84	3734026.51	4.64E-09	2.12E-08	4.64E-11	2.59E-08	6.36E-10	2.90E-09	0.00E+00	3.54E-09	3.90E-10	1.33E-09	0.00E+00	1.72E-09
4984	420851.63	3734031.23	4.74E-09	2.17E-08	4.74E-11	2.65E-08	6.50E-10	2.97E-09	0.00E+00	3.62E-09	3.99E-10	1.36E-09	0.00E+00	1.76E-09
4985	420859.43	3734035.95	4.85E-09	2.22E-08	4.85E-11	2.71E-08	6.65E-10	3.03E-09	0.00E+00	3.70E-09	4.08E-10	1.39E-09	0.00E+00	1.80E-09
4986	420898.41	3734059.57	5.37E-09	2.46E-08	5.37E-11	3.00E-08	7.36E-10	3.36E-09	0.00E+00	4.09E-09	4.52E-10	1.54E-09	0.00E+00	2.00E-09
4987	420906.2	3734064.3	5.47E-09	2.50E-08	5.47E-11	3.05E-08	7.50E-10	3.42E-09	0.00E+00	4.17E-09	4.60E-10	1.57E-09	0.00E+00	2.03E-09
4988	420914	3734069.02	5.57E-09	2.55E-08	5.57E-11	3.11E-08	7.64E-10	3.48E-09	0.00E+00	4.25E-09	4.69E-10	1.60E-09	0.00E+00	2.07E-09
4989	420921.8	3734073.74	5.67E-09	2.59E-08	5.67E-11	3.17E-08	7.77E-10	3.55E-09	0.00E+00	4.32E-09	4.77E-10	1.63E-09	0.00E+00	2.11E-09
4990	420929.59	3734078.47	5.77E-09	2.64E-08	5.76E-11	3.22E-08	7.91E-10	3.61E-09	0.00E+00	4.40E-09	4.85E-10	1.66E-09	0.00E+00	2.14E-09
4991	420937.39	3734083.19	5.86E-09	2.68E-08	5.86E-11	3.27E-08	8.03E-10	3.66E-09	0.00E+00	4.47E-09	4.93E-10	1.68E-09	0.00E+00	2.18E-09
4992	420945.18	3734087.91	5.95E-09	2.72E-08	5.94E-11	3.32E-08	8.15E-10	3.72E-09	0.00E+00	4.53E-09	5.00E-10	1.71E-09	0.00E+00	2.21E-09
4993	420952.98	3734092.64	6.03E-09	2.76E-08	6.02E-11	3.36E-08	8.26E-10	3.77E-09	0.00E+00	4.60E-09	5.07E-10	1.73E-09	0.00E+00	2.24E-09
4994	420960.77	3734097.36	6.11E-09	2.79E-08	6.10E-11	3.41E-08	8.37E-10	3.82E-09	0.00E+00	4.65E-09	5.14E-10	1.75E-09	0.00E+00	2.27E-09
4995	420968.57	3734102.08	6.18E-09	2.82E-08	6.17E-11	3.45E-08	8.47E-10	3.86E-09	0.00E+00	4.71E-09	5.20E-10	1.78E-09	0.00E+00	2.29E-09
4996	420979.44	3734115.39	6.48E-09	2.96E-08	6.47E-11	3.62E-08	8.88E-10	4.05E-09	0.00E+00	4.94E-09	5.45E-10	1.86E-09	0.00E+00	2.41E-09
4997	420982.52	3734123.97	6.71E-09	3.07E-08	6.71E-11	3.75E-08	9.20E-10	4.20E-09	0.00E+00	5.12E-09	5.65E-10	1.93E-09	0.00E+00	2.49E-09
4998	420985.6	3734132.55	6.96E-09	3.18E-08	6.95E-11	3.88E-08	9.54E-10	4.35E-09	0.00E+00	5.30E-09	5.85E-10	2.00E-09	0.00E+00	2.58E-09
4999	420988.68	3734141.13	7.21E-09	3.30E-08	7.20E-11	4.02E-08	9.88E-10	4.51E-09	0.00E+00	5.49E-09	6.06E-10	2.07E-09	0.00E+00	2.68E-09
5000	420991.76	3734149.7	7.46E-09	3.41E-08	7.46E-11	4.17E-08	1.02E-09	4.67E-09	0.00E+00	5.69E-09	6.28E-10	2.14E-09	0.00E+00	2.77E-09
5001	420994.84	3734158.28	7.72E-09	3.53E-08	7.72E-11	4.31E-08	1.06E-09	4.83E-09	0.00E+00	5.89E-09	6.50E-10	2.22E-09	0.00E+00	2.87E-09
5002	420997.91	3734166.86	7.98E-09	3.65E-08	7.98E-11	4.46E-08	1.09E-09	4.99E-09	0.00E+00	6.09E-09	6.72E-10	2.29E-09	0.00E+00	2.97E-09
5003	421000.99	3734175.44	8.25E-09	3.77E-08	8.24E-11	4.60E-08	1.13E-09	5.16E-09	0.00E+00	6.29E-09	6.94E-10	2.37E-09	0.00E+00	3.06E-09
5004	421004.07	3734184.02	8.52E-09	3.89E-08	8.51E-11	4.75E-08	1.17E-09	5.32E-09	0.00E+00	6.49E-09	7.16E-10	2.45E-09	0.00E+00	3.16E-09
5005	421007.15	3734192.6	8.79E-09	4.02E-08	8.78E-11	4.90E-08	1.20E-09	5.49E-09	0.00E+00	6.70E-09	7.39E-10	2.52E-09	0.00E+00	3.26E-09
5006	421010.23	3734201.18	9.06E-09	4.14E-08	9.05E-11	5.06E-08	1.24E-09	5.66E-09	0.00E+00	6.90E-09	7.62E-10	2.60E-09	0.00E+00	3.36E-09
5007	421013.31	3734209.76	9.33E-09	4.27E-08	9.32E-11	5.21E-08	1.28E-09	5.83E-09	0.00E+00	7.11E-09	7.85E-10	2.68E-09	0.00E+00	3.47E-09
5008	421016.38	3734218.34	9.60E-09	4.39E-08	9.60E-11	5.36E-08	1.32E-09	6.00E-09	0.00E+00	7.32E-09	8.08E-10	2.76E-09	0.00E+00	3.57E-09
5009	421019.46	3734226.92	9.88E-09	4.52E-08	9.87E-11	5.51E-08	1.35E-09	6.17E-09	0.00E+00	7.53E-09	8.31E-10	2.84E-09	0.00E+00	3.67E-09
5010	421022.54	3734235.5	1.01E-08	4.64E-08	1.01E-10	5.66E-08	1.39E-09	6.34E-09	0.00E+00	7.74E-09	8.54E-10	2.92E-09	0.00E+00	3.77E-09
5011	421025.62	3734244.08	1.04E-08	4.77E-08	1.04E-10	5.82E-08	1.43E-09	6.52E-09	0.00E+00	7.95E-09	8.77E-10	2.99E-09	0.00E+00	3.87E-09
5012	420828.51	3733973.14	3.62E-09	1.65E-08	3.61E-11	2.02E-08	4.96E-10	2.26E-09	0.00E+00	2.76E-09	3.04E-10	1.04E-09	0.00E+00	1.34E-09
5013	420844.06	3733982.56	3.77E-09	1.72E-08	3.77E-11	2.11E-08	5.17E-10	2.36E-09	0.00E+00	2.88E-09	3.17E-10	1.08E-09	0.00E+00	1.40E-09
5014	420851.84	3733987.27	3.85E-09	1.76E-08	3.85E-11	2.15E-08	5.28E-10	2.41E-09	0.00E+00	2.94E-09	3.24E-10	1.11E-09	0.00E+00	1.43E-09
5015	420859.61	3733991.98	3.93E-09	1.80E-08	3.93E-11	2.19E-08	5.39E-10	2.46E-09	0.00E+00	3.00E-09	3.31E-10	1.13E-09	0.00E+00	1.46E-09
5016	420906.26	3734020.25	4.41E-09	2.02E-08	4.41E-11	2.46E-08	6.05E-10	2.76E-09	0.00E+00	3.36E-09	3.71E-10	1.27E-09	0.00E+00	1.64E-09
5017	420914.04	3734024.96	4.49E-09	2.05E-08	4.49E-11	2.51E-08	6.16E-10	2.81E-09	0.00E+00	3.42E-09	3.78E-10	1.29E-09	0.00E+00	1.67E-09
5018	420921.81	3734029.67	4.57E-09	2.09E-08	4.57E-11	2.55E-08	6.27E-10	2.86E-09	0.00E+00	3.48E-09	3.85E-10	1.31E-09	0.00E+00	1.70E-09
5019	420929.59	3734034.38	4.65E-09	2.13E-08	4.65E-11	2.60E-08	6.37E-10	2.91E-09	0.00E+00	3.54E-09	3.91E-10	1.34E-09	0.00E+00	1.73E-09
5020	420945.14	3734043.8	4.80E-09	2.20E-08	4.80E-11	2.68E-08	6.58E-10	3.00E-09	0.00E+00	3.66E-09	4.04E-10	1.38E-09	0.00E+00	1.78E-09
5021	420952.91	3734048.52	4.88E-09	2.23E-08	4.87E-11	2.72E-08	6.69E-10	3.05E-09	0.00E+00	3.72E-09	4.10E-10	1.40E-09	0.00E+00	1.81E-09

5022	420960.69	3734053.23	4.95E-09	2.26E-08	4.94E-11	2.76E-08	6.78E-10	3.09E-09	0.00E+00	3.77E-09	4.16E-10	1.42E-09	0.00E+00	1.84E-09
5023	420968.46	3734057.94	5.02E-09	2.29E-08	5.01E-11	2.80E-08	6.88E-10	3.14E-09	0.00E+00	3.82E-09	4.22E-10	1.44E-09	0.00E+00	1.86E-09
5024	420976.24	3734062.65	5.08E-09	2.32E-08	5.08E-11	2.84E-08	6.97E-10	3.18E-09	0.00E+00	3.87E-09	4.28E-10	1.46E-09	0.00E+00	1.89E-09
5025	420991.79	3734072.07	5.20E-09	2.38E-08	5.20E-11	2.90E-08	7.13E-10	3.25E-09	0.00E+00	3.97E-09	4.38E-10	1.50E-09	0.00E+00	1.93E-09
5026	420999.56	3734076.78	5.26E-09	2.40E-08	5.25E-11	2.93E-08	7.20E-10	3.29E-09	0.00E+00	4.01E-09	4.42E-10	1.51E-09	0.00E+00	1.95E-09
5027	421010.41	3734090.05	5.47E-09	2.50E-08	5.47E-11	3.06E-08	7.50E-10	3.42E-09	0.00E+00	4.17E-09	4.60E-10	1.57E-09	0.00E+00	2.03E-09
5028	421013.48	3734098.61	5.65E-09	2.58E-08	5.65E-11	3.15E-08	7.74E-10	3.53E-09	0.00E+00	4.31E-09	4.75E-10	1.62E-09	0.00E+00	2.10E-09
5029	421016.55	3734107.16	5.83E-09	2.67E-08	5.83E-11	3.25E-08	7.99E-10	3.64E-09	0.00E+00	4.44E-09	4.90E-10	1.67E-09	0.00E+00	2.17E-09
5030	421019.62	3734115.72	6.01E-09	2.75E-08	6.01E-11	3.36E-08	8.24E-10	3.76E-09	0.00E+00	4.58E-09	5.06E-10	1.73E-09	0.00E+00	2.23E-09
5031	421022.69	3734124.28	6.20E-09	2.84E-08	6.20E-11	3.46E-08	8.50E-10	3.88E-09	0.00E+00	4.73E-09	5.22E-10	1.78E-09	0.00E+00	2.30E-09
5032	421025.76	3734132.83	6.39E-09	2.92E-08	6.39E-11	3.57E-08	8.76E-10	4.00E-09	0.00E+00	4.87E-09	5.38E-10	1.84E-09	0.00E+00	2.37E-09
5033	421028.83	3734141.39	6.58E-09	3.01E-08	6.58E-11	3.67E-08	9.02E-10	4.12E-09	0.00E+00	5.02E-09	5.54E-10	1.89E-09	0.00E+00	2.45E-09
5034	421031.9	3734149.95	6.78E-09	3.10E-08	6.77E-11	3.78E-08	9.29E-10	4.24E-09	0.00E+00	5.16E-09	5.70E-10	1.95E-09	0.00E+00	2.52E-09
5035	421034.97	3734158.5	6.97E-09	3.19E-08	6.97E-11	3.89E-08	9.55E-10	4.36E-09	0.00E+00	5.31E-09	5.86E-10	2.00E-09	0.00E+00	2.59E-09
5036	421038.04	3734167.06	7.16E-09	3.28E-08	7.16E-11	4.00E-08	9.82E-10	4.48E-09	0.00E+00	5.46E-09	6.03E-10	2.06E-09	0.00E+00	2.66E-09
5037	421041.11	3734175.62	7.36E-09	3.36E-08	7.36E-11	4.11E-08	1.01E-09	4.60E-09	0.00E+00	5.61E-09	6.19E-10	2.11E-09	0.00E+00	2.73E-09
5038	421044.18	3734184.17	7.55E-09	3.45E-08	7.55E-11	4.22E-08	1.04E-09	4.72E-09	0.00E+00	5.76E-09	6.36E-10	2.17E-09	0.00E+00	2.81E-09
5039	421047.25	3734192.73	7.75E-09	3.54E-08	7.75E-11	4.33E-08	1.06E-09	4.85E-09	0.00E+00	5.91E-09	6.52E-10	2.23E-09	0.00E+00	2.88E-09
5040	421050.32	3734201.29	7.94E-09	3.63E-08	7.94E-11	4.43E-08	1.09E-09	4.97E-09	0.00E+00	6.06E-09	6.68E-10	2.28E-09	0.00E+00	2.95E-09
5041	421053.39	3734209.84	8.14E-09	3.72E-08	8.13E-11	4.54E-08	1.12E-09	5.09E-09	0.00E+00	6.20E-09	6.85E-10	2.34E-09	0.00E+00	3.02E-09
5042	421056.46	3734218.4	8.34E-09	3.81E-08	8.33E-11	4.65E-08	1.14E-09	5.21E-09	0.00E+00	6.35E-09	7.01E-10	2.40E-09	0.00E+00	3.10E-09
5043	421059.53	3734226.96	8.53E-09	3.90E-08	8.53E-11	4.76E-08	1.17E-09	5.33E-09	0.00E+00	6.50E-09	7.18E-10	2.45E-09	0.00E+00	3.17E-09
5044	421062.6	3734235.51	8.73E-09	3.99E-08	8.73E-11	4.87E-08	1.20E-09	5.46E-09	0.00E+00	6.66E-09	7.35E-10	2.51E-09	0.00E+00	3.24E-09
5045	421065.67	3734244.07	8.93E-09	4.08E-08	8.93E-11	4.99E-08	1.22E-09	5.59E-09	0.00E+00	6.81E-09	7.52E-10	2.57E-09	0.00E+00	3.32E-09
5046	420794.88	3733959.98	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.64E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.73E-10	0.00E+00	1.26E-09
5047	420921.93	3733985.66	3.75E-09	1.71E-08	3.75E-11	2.09E-08	5.14E-10	2.34E-09	0.00E+00	2.86E-09	3.15E-10	1.08E-09	0.00E+00	1.39E-09
5048	420937.44	3733995.06	3.88E-09	1.77E-08	3.87E-11	2.16E-08	5.31E-10	2.42E-09	0.00E+00	2.95E-09	3.26E-10	1.11E-09	0.00E+00	1.44E-09
5049	420945.2	3733999.76	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	0.00E+00	3.00E-09	3.31E-10	1.13E-09	0.00E+00	1.46E-09
5050	420952.96	3734004.47	4.00E-09	1.83E-08	4.00E-11	2.23E-08	5.49E-10	2.50E-09	0.00E+00	3.05E-09	3.37E-10	1.15E-09	0.00E+00	1.49E-09
5051	420960.72	3734009.17	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	0.00E+00	3.10E-09	3.42E-10	1.17E-09	0.00E+00	1.51E-09
5052	420976.24	3734018.57	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
5053	420984	3734023.27	4.24E-09	1.94E-08	4.24E-11	2.37E-08	5.81E-10	2.65E-09	0.00E+00	3.23E-09	3.57E-10	1.22E-09	0.00E+00	1.57E-09
5054	420991.75	3734027.97	4.29E-09	1.96E-08	4.29E-11	2.40E-08	5.89E-10	2.68E-09	0.00E+00	3.27E-09	3.61E-10	1.23E-09	0.00E+00	1.60E-09
5055	420999.51	3734032.67	4.35E-09	1.99E-08	4.34E-11	2.43E-08	5.96E-10	2.72E-09	0.00E+00	3.31E-09	3.66E-10	1.25E-09	0.00E+00	1.61E-09
5056	421015.03	3734042.07	4.44E-09	2.03E-08	4.44E-11	2.48E-08	6.08E-10	2.77E-09	0.00E+00	3.38E-09	3.73E-10	1.28E-09	0.00E+00	1.65E-09
5057	421022.79	3734046.77	4.48E-09	2.05E-08	4.48E-11	2.50E-08	6.14E-10	2.80E-09	0.00E+00	3.42E-09	3.77E-10	1.29E-09	0.00E+00	1.66E-09
5058	421030.55	3734051.48	4.52E-09	2.07E-08	4.52E-11	2.52E-08	6.19E-10	2.82E-09	0.00E+00	3.44E-09	3.80E-10	1.30E-09	0.00E+00	1.68E-09
5059	421041.37	3734064.72	4.69E-09	2.14E-08	4.68E-11	2.62E-08	6.42E-10	2.93E-09	0.00E+00	3.57E-09	3.94E-10	1.35E-09	0.00E+00	1.74E-09
5060	421044.43	3734073.25	4.82E-09	2.20E-08	4.82E-11	2.69E-08	6.61E-10	3.02E-09	0.00E+00	3.68E-09	4.06E-10	1.39E-09	0.00E+00	1.79E-09
5061	421047.5	3734081.79	4.96E-09	2.27E-08	4.96E-11	2.77E-08	6.80E-10	3.10E-09	0.00E+00	3.78E-09	4.17E-10	1.43E-09	0.00E+00	1.84E-09
5062	421050.56	3734090.33	5.10E-09	2.33E-08	5.10E-11	2.85E-08	6.99E-10	3.19E-09	0.00E+00	3.89E-09	4.29E-10	1.46E-09	0.00E+00	1.89E-09
5063	421053.62	3734098.87	5.24E-09	2.39E-08	5.24E-11	2.92E-08	7.18E-10	3.27E-09	0.00E+00	3.99E-09	4.41E-10	1.51E-09	0.00E+00	1.95E-09
5064	421056.69	3734107.41	5.38E-09	2.46E-08	5.38E-11	3.00E-08	7.38E-10	3.36E-09	0.00E+00	4.10E-09	4.53E-10	1.55E-09	0.00E+00	2.00E-09
5065	421059.75	3734115.95	5.52E-09	2.53E-08	5.52E-11	3.08E-08	7.57E-10	3.45E-09	0.00E+00	4.21E-09	4.65E-10	1.59E-09	0.00E+00	2.05E-09
5066	421062.82	3734124.49	5.67E-09	2.59E-08	5.66E-11	3.16E-08	7.77E-10	3.54E-09	0.00E+00	4.32E-09	4.77E-10	1.63E-09	0.00E+00	2.10E-09
5067	421065.88	3734133.03	5.81E-09	2.66E-08	5.81E-11	3.24E-08	7.96E-10	3.63E-09	0.00E+00	4.43E-09	4.89E-10	1.67E-09	0.00E+00	2.16E-09
5068	421068.94	3734141.56	5.95E-09	2.72E-08	5.95E-11	3.32E-08	8.16E-10	3.72E-09	0.00E+00	4.54E-09	5.01E-10	1.71E-09	0.00E+00	2.21E-09
5069	421072.01	3734150.1	6.09E-09	2.79E-08	6.09E-11	3.40E-08	8.35E-10	3.81E-09	0.00E+00	4.65E-09	5.13E-10	1.75E-09	0.00E+00	2.26E-09
5070	421075.07	3734158.64	6.24E-09	2.85E-08	6.23E-11	3.48E-08	8.55E-10	3.90E-09	0.00E+00	4.75E-09	5.25E-10	1.79E-09	0.00E+00	2.32E-09
5071	421078.13	3734167.18	6.38E-09	2.92E-08	6.38E-11	3.56E-08	8.75E-10	3.99E-09	0.00E+00	4.86E-09	5.37E-10	1.83E-09	0.00E+00	2.37E-09
5072	421081.2	3734175.72	6.53E-09	2.98E-08	6.52E-11	3.64E-08	8.95E-10	4.08E-09	0.00E+00	4.97E-09	5.49E-10	1.88E-09	0.00E+00	2.42E-09
5073	421084.26	3734184.26	6.67E-09	3.05E-08	6.67E-11	3.72E-08	9.14E-10	4.17E-09	0.00E+00	5.09E-09	5.61E-10	1.92E-09	0.00E+00	2.48E-09
5074	421087.32	3734192.8	6.82E-09	3.12E-08	6.81E-11	3.80E-08	9.34E-10	4.26E-09	0.00E+00	5.20E-09	5.73E-10	1.96E-09	0.00E+00	2.53E-09
5075	420802.99	3733920.81	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	0.00E+00	2.20E-09	2.43E-10	8.31E-10	0.00E+00	1.07E-09
5076	420852.41	3733899.46	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.69E-10	1.68E-09	0.00E+00	2.05E-09	2.27E-10	7.74E-10	0.00E+00	1.00E-09
5077	420860.15	3733904.15	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.76E-10	1.71E-09	0.00E+00	2.09E-09	2.31E-10	7.88E-10	0.00E+00	1.02E-09
5078	420891.13	3733922.92	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	0.00E+00	2.24E-09	2.47E-10	8.43E-10	0.00E+00	1.09E-09
5079	420945.35	3733955.77	3.28E-09	1.50E-08	3.28E-11	1.83E-08	4.50E-10	2.05E-09	0.00E+00	2.50E-09	2.76E-10	9.43E-10	0.00E+00	1.22E-09
5080	420953.1	3733960.47	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.57E-10	2.08E-09	0.00E+00	2.54E-09	2.80E-10	9.58E-10	0.00E+00	1.24E-09
5081	420960.84	3733965.16	3.38E-09	1.55E-08	3.38E-11	1.89E-08	4.64E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.72E-10	0.00E+00	1.26E-09
5082	420976.33	3733974.55	3.48E-09	1.59E-08	3.48E-11	1.95E-08	4.78E-10	2.18E-09	0.00E+00	2.66E-09	2.93E-10	1.00E-09	0.00E+00	1.29E-09
5083	420984.08	3733979.24	3.53E-09	1.62E-08	3.53E-11	1.97E-08	4.85E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.02E-09	0.00E+00	1.31E-09
5084	420991.82	3733983.93	3.58E-09	1.64E-08	3.58E-11	2.00E-08	4.91E-10	2.24E-09	0.00E+00	2.73E-09	3.01E-10	1.03E-09	0.00E+00	1.33E-09
5085	421007.31	3733993.32	3.68E-09	1.68E-08	3.67E-11	2.05E-08	5.04E-10	2.30E-09	0.00E+00	2.80E-09	3.09E-10	1.06E-09	0.00E+00	1.37E-09
5086	421015.06	3733998.01	3.72E-09	1.70E-08	3.72E-11	2.08E-08	5.10E-10	2.33E-09	0.00E+00	2.83E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
5087	421022.8	3734002.7	3.76E-09	1.72E-08	3.76E-11	2.10E-08	5.15E-10	2.35E-09	0.00E+00	2.87E-09	3.16E-10	1.08E-09	0.00E+00	1.40E-09
5088	421030.55	3734007.4	3.80E-09	1.74E-08	3.80E-11	2.12E-08	5.21E-10	2.37E-09	0.00E+00	2.90E-09	3.20E-10	1.09E-09	0.00E+00	1.41E-09
5089	421046.04	3734016.78	3.87E-09	1.77E-08	3.87E-11	2.16E-08	5.30E-10	2.42E-09	0.00E+00	2.95E-09	3.25E-10	1.11E-09	0.00E+00	1.44E-09
5090	421053.79	3734021.48	3.90E-09	1.78E-08	3.90E-11	2.18E-08	5.34E-10	2.44E-09	0.00E+00	2.97E-09	3.28E-10	1.12E-09	0.00E+00	1.45E-09
5091	421061.53	3734026.17	3.93E-09	1.79E-08	3.92E-11	2.19E-08	5.38E-10	2.45E-09	0.00E+00	2.99E-09	3.30E-10	1.13E-09	0.00E+00	1.46E-09
5092	421072.33	3734039.39	4.06E-09	1.85E-08	4.05E-11	2.26E-08	5.56E-10	2.54E-09	0.00E+00	3.09E-09	3.41E-10	1.17E-09	0.00E+00	1.51E-09
5093	421075.39	3734047.91	4.16E-09	1.90E-08	4.16E-11	2.32E-08	5.71E-10	2.60E-09	0.00E+00	3.17E-09	3.50E-10	1.20E-09	0.00E+00	1.55E-09
5094	421078.45	3734056.43	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.85E-10	2.67E-09	0.00E+00	3.25E-09	3.59E-10	1.23E-09	0.00E+00	1.59E-09
5095	421081.51	3734064.96	4.38E-09	2.00E-08	4.38E-11	2.44E-08	6.00E-10	2.74E-09	0.00E+00	3.34E-09	3.68E-10	1.26E-09	0.00E+00	1.63E-09
5096	421084.57	3734073.48	4.49E-09	2.05E-08	4.48E-11	2.50E-08	6.15E-10	2.81E-09	0.00E+00	3.42E-09	3.77E-10	1.29E-09	0.00E+00	1.67E-09

5097	421087.63	3734082.01	4.60E-09	2.10E-08	4.59E-11	2.57E-08	6.30E-10	2.87E-09	0.00E+00	3.50E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
5098	421090.69	3734090.53	4.71E-09	2.15E-08	4.70E-11	2.63E-08	6.45E-10	2.94E-09	0.00E+00	3.59E-09	3.96E-10	1.35E-09	0.00E+00	1.75E-09
5099	421093.74	3734099.06	4.81E-09	2.20E-08	4.81E-11	2.69E-08	6.60E-10	3.01E-09	0.00E+00	3.67E-09	4.05E-10	1.38E-09	0.00E+00	1.79E-09
5100	421096.8	3734107.58	4.92E-09	2.25E-08	4.92E-11	2.75E-08	6.75E-10	3.08E-09	0.00E+00	3.75E-09	4.14E-10	1.41E-09	0.00E+00	1.83E-09
5101	421099.86	3734116.1	5.03E-09	2.30E-08	5.03E-11	2.81E-08	6.90E-10	3.14E-09	0.00E+00	3.83E-09	4.23E-10	1.45E-09	0.00E+00	1.87E-09
5102	421102.92	3734124.63	5.14E-09	2.35E-08	5.13E-11	2.87E-08	7.04E-10	3.21E-09	0.00E+00	3.92E-09	4.32E-10	1.48E-09	0.00E+00	1.91E-09
5103	421105.98	3734133.15	5.24E-09	2.40E-08	5.24E-11	2.93E-08	7.19E-10	3.28E-09	0.00E+00	4.00E-09	4.41E-10	1.51E-09	0.00E+00	1.95E-09
5104	421109.04	3734141.68	5.35E-09	2.45E-08	5.35E-11	2.99E-08	7.33E-10	3.35E-09	0.00E+00	4.08E-09	4.50E-10	1.54E-09	0.00E+00	1.99E-09
5105	421112.09	3734150.2	5.46E-09	2.50E-08	5.46E-11	3.05E-08	7.48E-10	3.41E-09	0.00E+00	4.16E-09	4.59E-10	1.57E-09	0.00E+00	2.03E-09
5106	421161.03	3734286.59	7.51E-09	3.43E-08	7.51E-11	4.19E-08	1.03E-09	4.70E-09	0.00E+00	5.73E-09	6.32E-10	2.16E-09	0.00E+00	2.79E-09
5107	420811.09	3733881.64	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.57E-09	0.00E+00	1.91E-09	2.11E-10	7.19E-10	0.00E+00	9.30E-10
5108	420860.48	3733860.27	2.35E-09	1.07E-08	2.34E-11	1.31E-08	3.22E-10	1.47E-09	0.00E+00	1.79E-09	1.97E-10	6.74E-10	0.00E+00	8.71E-10
5109	420868.21	3733864.95	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.27E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.85E-10	0.00E+00	8.86E-10
5110	420875.94	3733869.64	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	0.00E+00	1.85E-09	2.04E-10	6.96E-10	0.00E+00	9.00E-10
5111	420899.15	3733883.7	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.29E-10	0.00E+00	9.43E-10
5112	420906.88	3733888.39	2.58E-09	1.18E-08	2.58E-11	1.44E-08	3.53E-10	1.61E-09	0.00E+00	1.97E-09	2.17E-10	7.41E-10	0.00E+00	9.58E-10
5113	420937.82	3733907.13	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.76E-10	1.71E-09	0.00E+00	2.09E-09	2.31E-10	7.87E-10	0.00E+00	1.02E-09
5114	420953.29	3733916.5	2.82E-09	1.29E-08	2.82E-11	1.58E-08	3.87E-10	1.76E-09	0.00E+00	2.15E-09	2.37E-10	8.11E-10	0.00E+00	1.05E-09
5115	420961.02	3733921.19	2.86E-09	1.31E-08	2.86E-11	1.60E-08	3.93E-10	1.79E-09	0.00E+00	2.18E-09	2.41E-10	8.23E-10	0.00E+00	1.06E-09
5116	421015.17	3733954	3.15E-09	1.44E-08	3.14E-11	1.76E-08	4.31E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.04E-10	0.00E+00	1.17E-09
5117	421022.9	3733958.68	3.18E-09	1.46E-08	3.18E-11	1.78E-08	4.36E-10	1.99E-09	0.00E+00	2.43E-09	2.68E-10	9.15E-10	0.00E+00	1.18E-09
5118	421038.37	3733968.06	3.26E-09	1.49E-08	3.25E-11	1.82E-08	4.46E-10	2.04E-09	0.00E+00	2.48E-09	2.74E-10	9.35E-10	0.00E+00	1.21E-09
5119	421046.1	3733972.74	3.29E-09	1.50E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.45E-10	0.00E+00	1.22E-09
5120	421053.84	3733977.43	3.32E-09	1.52E-08	3.32E-11	1.85E-08	4.55E-10	2.08E-09	0.00E+00	2.53E-09	2.79E-10	9.54E-10	0.00E+00	1.23E-09
5121	421069.31	3733986.8	3.38E-09	1.54E-08	3.38E-11	1.89E-08	4.63E-10	2.11E-09	0.00E+00	2.58E-09	2.84E-10	9.71E-10	0.00E+00	1.26E-09
5122	421077.04	3733991.49	3.41E-09	1.56E-08	3.40E-11	1.90E-08	4.67E-10	2.13E-09	0.00E+00	2.60E-09	2.86E-10	9.78E-10	0.00E+00	1.26E-09
5123	421084.78	3733996.17	3.43E-09	1.57E-08	3.43E-11	1.91E-08	4.70E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.85E-10	0.00E+00	1.27E-09
5124	421103.3	3734014.06	3.55E-09	1.62E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
5125	421106.35	3734022.57	3.64E-09	1.66E-08	3.64E-11	2.03E-08	4.99E-10	2.27E-09	0.00E+00	2.77E-09	3.06E-10	1.05E-09	0.00E+00	1.35E-09
5126	421109.41	3734031.08	3.72E-09	1.70E-08	3.72E-11	2.08E-08	5.10E-10	2.33E-09	0.00E+00	2.84E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
5127	421112.46	3734039.6	3.81E-09	1.74E-08	3.80E-11	2.12E-08	5.22E-10	2.38E-09	0.00E+00	2.90E-09	3.20E-10	1.09E-09	0.00E+00	1.41E-09
5128	421115.52	3734048.11	3.89E-09	1.78E-08	3.89E-11	2.17E-08	5.34E-10	2.43E-09	0.00E+00	2.97E-09	3.27E-10	1.12E-09	0.00E+00	1.45E-09
5129	421118.57	3734056.62	3.98E-09	1.82E-08	3.98E-11	2.22E-08	5.45E-10	2.49E-09	0.00E+00	3.03E-09	3.35E-10	1.14E-09	0.00E+00	1.48E-09
5130	421121.63	3734065.13	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	0.00E+00	3.10E-09	3.42E-10	1.17E-09	0.00E+00	1.51E-09
5131	421124.68	3734073.64	4.15E-09	1.90E-08	4.15E-11	2.32E-08	5.69E-10	2.59E-09	0.00E+00	3.16E-09	3.49E-10	1.19E-09	0.00E+00	1.54E-09
5132	421127.73	3734082.16	4.23E-09	1.94E-08	4.23E-11	2.36E-08	5.80E-10	2.65E-09	0.00E+00	3.23E-09	3.56E-10	1.22E-09	0.00E+00	1.57E-09
5133	421130.79	3734090.67	4.32E-09	1.97E-08	4.32E-11	2.41E-08	5.92E-10	2.70E-09	0.00E+00	3.29E-09	3.63E-10	1.24E-09	0.00E+00	1.60E-09
5134	421133.84	3734099.18	4.40E-09	2.01E-08	4.40E-11	2.46E-08	6.03E-10	2.75E-09	0.00E+00	3.35E-09	3.70E-10	1.26E-09	0.00E+00	1.63E-09
5135	421136.9	3734107.69	4.48E-09	2.05E-08	4.48E-11	2.50E-08	6.15E-10	2.80E-09	0.00E+00	3.42E-09	3.77E-10	1.29E-09	0.00E+00	1.67E-09
5136	421197.98	3734277.94	6.39E-09	2.92E-08	6.39E-11	3.57E-08	8.76E-10	4.00E-09	0.00E+00	4.87E-09	5.38E-10	1.84E-09	0.00E+00	2.37E-09
5137	421201.03	3734286.45	6.55E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	0.00E+00	4.99E-09	5.51E-10	1.88E-09	0.00E+00	2.43E-09
5138	420828.23	3733844.34	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	0.00E+00	1.69E-09	1.86E-10	6.36E-10	0.00E+00	8.22E-10
5139	420819.19	3733842.47	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.01E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.30E-10	0.00E+00	8.15E-10
5140	420876.28	3733825.76	2.10E-09	9.59E-09	2.10E-11	1.17E-08	2.87E-10	1.31E-09	0.00E+00	1.60E-09	1.76E-10	6.03E-10	0.00E+00	7.79E-10
5141	420907.18	3733844.48	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.39E-10	0.00E+00	8.26E-10
5142	420914.9	3733849.16	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	0.00E+00	1.72E-09	1.90E-10	6.49E-10	0.00E+00	8.39E-10
5143	420930.35	3733858.53	2.32E-09	1.06E-08	2.32E-11	1.30E-08	3.19E-10	1.45E-09	0.00E+00	1.77E-09	1.95E-10	6.68E-10	0.00E+00	8.63E-10
5144	420961.26	3733877.25	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.87E-09	2.07E-10	7.06E-10	0.00E+00	9.13E-10
5145	420968.98	3733881.93	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.42E-10	1.56E-09	0.00E+00	1.90E-09	2.10E-10	7.16E-10	0.00E+00	9.25E-10
5146	420984.43	3733891.29	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	0.00E+00	1.95E-09	2.15E-10	7.35E-10	0.00E+00	9.51E-10
5147	420992.16	3733895.97	2.59E-09	1.19E-08	2.59E-11	1.45E-08	3.55E-10	1.62E-09	0.00E+00	1.98E-09	2.18E-10	7.45E-10	0.00E+00	9.63E-10
5148	420999.88	3733900.66	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.55E-10	0.00E+00	9.76E-10
5149	421015.33	3733910.02	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.69E-10	1.68E-09	0.00E+00	2.05E-09	2.27E-10	7.74E-10	0.00E+00	1.00E-09
5150	421023.06	3733914.7	2.73E-09	1.25E-08	2.73E-11	1.52E-08	3.74E-10	1.70E-09	0.00E+00	2.08E-09	2.29E-10	7.84E-10	0.00E+00	1.01E-09
5151	421030.79	3733919.38	2.76E-09	1.26E-08	2.76E-11	1.54E-08	3.78E-10	1.73E-09	0.00E+00	2.10E-09	2.32E-10	7.93E-10	0.00E+00	1.02E-09
5152	421084.86	3733952.15	2.96E-09	1.35E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	0.00E+00	2.26E-09	2.49E-10	8.51E-10	0.00E+00	1.10E-09
5153	421100.31	3733961.51	3.01E-09	1.37E-08	3.01E-11	1.68E-08	4.12E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.64E-10	0.00E+00	1.12E-09
5154	421108.04	3733966.19	3.03E-09	1.38E-08	3.03E-11	1.69E-08	4.15E-10	1.89E-09	0.00E+00	2.31E-09	2.55E-10	8.70E-10	0.00E+00	1.12E-09
5155	421123.49	3733975.55	3.06E-09	1.40E-08	3.06E-11	1.71E-08	4.20E-10	1.91E-09	0.00E+00	2.33E-09	2.58E-10	8.80E-10	0.00E+00	1.14E-09
5156	421134.27	3733988.73	3.14E-09	1.44E-08	3.14E-11	1.76E-08	4.31E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.03E-10	0.00E+00	1.17E-09
5157	421137.32	3733997.24	3.21E-09	1.47E-08	3.21E-11	1.79E-08	4.40E-10	2.01E-09	0.00E+00	2.45E-09	2.70E-10	9.23E-10	0.00E+00	1.19E-09
5158	421140.37	3734005.74	3.28E-09	1.50E-08	3.28E-11	1.83E-08	4.50E-10	2.05E-09	0.00E+00	2.50E-09	2.76E-10	9.42E-10	0.00E+00	1.22E-09
5159	421143.42	3734014.24	3.35E-09	1.53E-08	3.35E-11	1.87E-08	4.59E-10	2.09E-09	0.00E+00	2.55E-09	2.82E-10	9.62E-10	0.00E+00	1.24E-09
5160	421146.47	3734022.74	3.42E-09	1.56E-08	3.41E-11	1.91E-08	4.68E-10	2.14E-09	0.00E+00	2.60E-09	2.87E-10	9.81E-10	0.00E+00	1.27E-09
5161	421149.52	3734031.25	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.18E-09	0.00E+00	2.66E-09	2.93E-10	1.00E-09	0.00E+00	1.29E-09
5162	421152.57	3734039.75	3.55E-09	1.62E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
5163	421155.62	3734048.25	3.62E-09	1.65E-08	3.62E-11	2.02E-08	4.96E-10	2.26E-09	0.00E+00	2.76E-09	3.04E-10	1.04E-09	0.00E+00	1.34E-09
5164	421158.67	3734056.75	3.69E-09	1.69E-08	3.68E-11	2.06E-08	5.05E-10	2.30E-09	0.00E+00	2.81E-09	3.10E-10	1.06E-09	0.00E+00	1.37E-09
5165	421161.72	3734065.25	3.75E-09	1.72E-08	3.75E-11	2.10E-08	5.15E-10	2.35E-09	0.00E+00	2.86E-09	3.16E-10	1.08E-09	0.00E+00	1.39E-09
5166	421195.28	3734158.78	4.46E-09	2.04E-08	4.46E-11	2.49E-08	6.12E-10	2.79E-09	0.00E+00	3.40E-09	3.76E-10	1.28E-09	0.00E+00	1.66E-09
5167	421198.33	3734167.28	4.53E-09	2.07E-08	4.53E-11	2.53E-08	6.21E-10	2.83E-09	0.00E+00	3.45E-09	3.81E-10	1.30E-09	0.00E+00	1.68E-09
5168	421201.38	3734175.78	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.30E-10	2.87E-09	0.00E+00	3.50E-09	3.87E-10	1.32E-09	0.00E+00	1.71E-09
5169	421204.43	3734184.29	4.67E-09	2.13E-08	4.66E-11	2.61E-08	6.40E-10	2.92E-09	0.00E+00	3.56E-09	3.93E-10	1.34E-09	0.00E+00	1.73E-09
5170	421207.48	3734192.79	4.74E-09	2.17E-08	4.74E-11	2.65E-08	6.50E-10	2.96E-09	0.00E+00	3.61E-09	3.99E-10	1.36E-09	0.00E+00	1.76E-09
5171	421210.53	3734201.29	4.81E-09	2.20E-08	4.81E-11	2.69E-08	6.60E-10	3.01E-09	0.00E+00	3.67E-09	4.05E-10	1.38E-09	0.00E+00	1.79E-09

5172	421213.58	3734209.79	4.89E-09	2.24E-08	4.89E-11	2.73E-08	6.71E-10	3.06E-09	0.00E+00	3.73E-09	4.12E-10	1.41E-09	0.00E+00	1.82E-09
5173	420836.33	3733805.17	1.96E-09	8.95E-09	1.96E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.65E-10	5.62E-10	0.00E+00	7.27E-10
5174	420827.29	3733803.3	1.94E-09	8.87E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.21E-10
5175	420884.35	3733786.57	1.86E-09	8.52E-09	1.86E-11	1.04E-08	2.56E-10	1.17E-09	0.00E+00	1.42E-09	1.57E-10	5.36E-10	0.00E+00	6.93E-10
5176	420915.22	3733805.28	1.97E-09	9.01E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.66E-10	5.66E-10	0.00E+00	7.32E-10
5177	420922.94	3733809.95	2.00E-09	9.13E-09	2.00E-11	1.11E-08	2.74E-10	1.25E-09	0.00E+00	1.52E-09	1.68E-10	5.74E-10	0.00E+00	7.42E-10
5178	420930.65	3733814.63	2.02E-09	9.26E-09	2.02E-11	1.13E-08	2.78E-10	1.27E-09	0.00E+00	1.54E-09	1.70E-10	5.82E-10	0.00E+00	7.52E-10
5179	420946.09	3733823.98	2.08E-09	9.50E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.58E-09	1.75E-10	5.97E-10	0.00E+00	7.72E-10
5180	420969.24	3733838.01	2.16E-09	9.89E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.22E-10	0.00E+00	8.03E-10
5181	420976.96	3733842.69	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.29E-10	0.00E+00	8.14E-10
5182	420992.4	3733852.04	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.41E-09	0.00E+00	1.71E-09	1.89E-10	6.46E-10	0.00E+00	8.35E-10
5183	421000.11	3733856.71	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.74E-09	1.91E-10	6.54E-10	0.00E+00	8.46E-10
5184	421007.83	3733861.39	2.30E-09	1.05E-08	2.30E-11	1.29E-08	3.16E-10	1.44E-09	0.00E+00	1.76E-09	1.94E-10	6.62E-10	0.00E+00	8.56E-10
5185	421023.27	3733870.74	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.24E-10	1.48E-09	0.00E+00	1.80E-09	1.99E-10	6.78E-10	0.00E+00	8.77E-10
5186	421030.99	3733875.42	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.28E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.87E-10	0.00E+00	8.88E-10
5187	421046.42	3733884.77	2.44E-09	1.12E-08	2.44E-11	1.36E-08	3.35E-10	1.53E-09	0.00E+00	1.86E-09	2.06E-10	7.02E-10	0.00E+00	9.08E-10
5188	421054.14	3733889.45	2.47E-09	1.13E-08	2.47E-11	1.38E-08	3.39E-10	1.55E-09	0.00E+00	1.88E-09	2.08E-10	7.10E-10	0.00E+00	9.18E-10
5189	421061.86	3733894.13	2.50E-09	1.14E-08	2.50E-11	1.39E-08	3.43E-10	1.56E-09	0.00E+00	1.90E-09	2.10E-10	7.18E-10	0.00E+00	9.28E-10
5190	421077.29	3733903.48	2.55E-09	1.17E-08	2.55E-11	1.42E-08	3.50E-10	1.59E-09	0.00E+00	1.94E-09	2.15E-10	7.33E-10	0.00E+00	9.47E-10
5191	421085.01	3733908.15	2.57E-09	1.18E-08	2.57E-11	1.44E-08	3.53E-10	1.61E-09	0.00E+00	1.96E-09	2.17E-10	7.40E-10	0.00E+00	9.56E-10
5192	421100.44	3733917.51	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	0.00E+00	2.00E-09	2.20E-10	7.53E-10	0.00E+00	9.74E-10
5193	421108.16	3733922.18	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	0.00E+00	2.01E-09	2.22E-10	7.59E-10	0.00E+00	9.81E-10
5194	421165.23	3733963.41	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.84E-10	1.75E-09	0.00E+00	2.14E-09	2.36E-10	8.05E-10	0.00E+00	1.04E-09
5195	421168.28	3733971.9	2.86E-09	1.31E-08	2.86E-11	1.59E-08	3.92E-10	1.79E-09	0.00E+00	2.18E-09	2.40E-10	8.21E-10	0.00E+00	1.06E-09
5196	421171.33	3733980.4	2.91E-09	1.33E-08	2.91E-11	1.63E-08	3.99E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.37E-10	0.00E+00	1.08E-09
5197	421174.38	3733988.89	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.86E-09	0.00E+00	2.26E-09	2.50E-10	8.53E-10	0.00E+00	1.10E-09
5198	421177.42	3733997.39	3.02E-09	1.38E-08	3.02E-11	1.69E-08	4.14E-10	1.89E-09	0.00E+00	2.30E-09	2.54E-10	8.69E-10	0.00E+00	1.12E-09
5199	421180.47	3734005.88	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.22E-10	1.93E-09	0.00E+00	2.35E-09	2.59E-10	8.85E-10	0.00E+00	1.14E-09
5200	421186.57	3734022.87	3.19E-09	1.46E-08	3.19E-11	1.78E-08	4.37E-10	1.99E-09	0.00E+00	2.43E-09	2.68E-10	9.16E-10	0.00E+00	1.18E-09
5201	421204.85	3734073.83	3.51E-09	1.60E-08	3.51E-11	1.96E-08	4.81E-10	2.19E-09	0.00E+00	2.67E-09	2.95E-10	1.01E-09	0.00E+00	1.30E-09
5202	421207.9	3734082.32	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.23E-09	0.00E+00	2.71E-09	2.99E-10	1.02E-09	0.00E+00	1.32E-09
5203	421210.95	3734090.82	3.61E-09	1.65E-08	3.61E-11	2.02E-08	4.95E-10	2.26E-09	0.00E+00	2.75E-09	3.04E-10	1.04E-09	0.00E+00	1.34E-09
5204	421213.99	3734099.31	3.66E-09	1.67E-08	3.66E-11	2.04E-08	5.02E-10	2.29E-09	0.00E+00	2.79E-09	3.08E-10	1.05E-09	0.00E+00	1.36E-09
5205	421235.33	3734158.77	4.02E-09	1.84E-08	4.02E-11	2.24E-08	5.51E-10	2.51E-09	0.00E+00	3.07E-09	3.38E-10	1.16E-09	0.00E+00	1.49E-09
5206	421238.37	3734167.26	4.08E-09	1.86E-08	4.07E-11	2.28E-08	5.59E-10	2.55E-09	0.00E+00	3.11E-09	3.43E-10	1.17E-09	0.00E+00	1.51E-09
5207	421241.42	3734175.75	4.13E-09	1.89E-08	4.13E-11	2.31E-08	5.66E-10	2.58E-09	0.00E+00	3.15E-09	3.48E-10	1.19E-09	0.00E+00	1.54E-09
5208	421244.47	3734184.25	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	0.00E+00	3.19E-09	3.53E-10	1.20E-09	0.00E+00	1.56E-09
5209	421247.52	3734192.74	4.25E-09	1.94E-08	4.25E-11	2.37E-08	5.83E-10	2.66E-09	0.00E+00	3.24E-09	3.58E-10	1.22E-09	0.00E+00	1.58E-09
5210	421250.56	3734201.24	4.32E-09	1.97E-08	4.31E-11	2.41E-08	5.92E-10	2.70E-09	0.00E+00	3.29E-09	3.63E-10	1.24E-09	0.00E+00	1.60E-09
5211	421253.61	3734209.73	4.38E-09	2.00E-08	4.38E-11	2.45E-08	6.01E-10	2.74E-09	0.00E+00	3.34E-09	3.69E-10	1.26E-09	0.00E+00	1.63E-09
5212	421256.66	3734218.22	4.45E-09	2.04E-08	4.45E-11	2.49E-08	6.11E-10	2.78E-09	0.00E+00	3.39E-09	3.75E-10	1.28E-09	0.00E+00	1.65E-09
5213	421259.71	3734226.72	4.53E-09	2.07E-08	4.53E-11	2.53E-08	6.21E-10	2.83E-09	0.00E+00	3.45E-09	3.81E-10	1.30E-09	0.00E+00	1.68E-09
5214	421262.75	3734235.21	4.61E-09	2.11E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	0.00E+00	3.51E-09	3.88E-10	1.32E-09	0.00E+00	1.71E-09
5215	421265.8	3734243.7	4.69E-09	2.14E-08	4.69E-11	2.62E-08	6.43E-10	2.93E-09	0.00E+00	3.57E-09	3.94E-10	1.35E-09	0.00E+00	1.74E-09
5216	421281.04	3734286.17	5.19E-09	2.37E-08	5.19E-11	2.90E-08	7.11E-10	3.24E-09	0.00E+00	3.96E-09	4.37E-10	1.49E-09	0.00E+00	1.93E-09
5217	420853.48	3733767.87	1.76E-09	8.05E-09	1.76E-11	9.83E-09	2.41E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.06E-10	0.00E+00	6.54E-10
5218	420844.44	3733766	1.75E-09	8.00E-09	1.75E-11	9.76E-09	2.40E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.03E-10	0.00E+00	6.50E-10
5219	420835.4	3733764.13	1.74E-09	7.94E-09	1.73E-11	9.69E-09	2.38E-10	1.09E-09	0.00E+00	1.32E-09	1.46E-10	4.99E-10	0.00E+00	6.45E-10
5220	420893.16	3733747.83	1.68E-09	7.66E-09	1.67E-11	9.35E-09	2.30E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.81E-10	0.00E+00	6.22E-10
5221	420901.05	3733752.61	1.70E-09	7.76E-09	1.70E-11	9.48E-09	2.33E-10	1.06E-09	0.00E+00	1.29E-09	1.43E-10	4.88E-10	0.00E+00	6.31E-10
5222	420932.63	3733771.75	1.79E-09	8.18E-09	1.79E-11	9.99E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.51E-10	5.14E-10	0.00E+00	6.65E-10
5223	420940.53	3733776.53	1.81E-09	8.29E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.21E-10	0.00E+00	6.73E-10
5224	420948.42	3733781.31	1.84E-09	8.39E-09	1.84E-11	1.02E-08	2.52E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.28E-10	0.00E+00	6.82E-10
5225	420956.32	3733786.1	1.86E-09	8.50E-09	1.86E-11	1.04E-08	2.55E-10	1.16E-09	0.00E+00	1.42E-09	1.56E-10	5.34E-10	0.00E+00	6.91E-10
5226	420964.21	3733790.88	1.88E-09	8.61E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.58E-10	5.41E-10	0.00E+00	6.99E-10
5227	420987.9	3733805.23	1.95E-09	8.94E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	0.00E+00	1.49E-09	1.64E-10	5.62E-10	0.00E+00	7.26E-10
5228	420995.79	3733810.01	1.98E-09	9.05E-09	1.98E-11	1.10E-08	2.71E-10	1.24E-09	0.00E+00	1.51E-09	1.67E-10	5.69E-10	0.00E+00	7.35E-10
5229	421003.68	3733814.8	2.00E-09	9.16E-09	2.00E-11	1.12E-08	2.75E-10	1.25E-09	0.00E+00	1.53E-09	1.69E-10	5.76E-10	0.00E+00	7.44E-10
5230	421011.58	3733819.58	2.03E-09	9.27E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	0.00E+00	1.55E-09	1.71E-10	5.83E-10	0.00E+00	7.53E-10
5231	421019.47	3733824.36	2.05E-09	9.39E-09	2.05E-11	1.15E-08	2.82E-10	1.28E-09	0.00E+00	1.57E-09	1.73E-10	5.90E-10	0.00E+00	7.63E-10
5232	421027.37	3733829.15	2.08E-09	9.50E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.58E-09	1.75E-10	5.97E-10	0.00E+00	7.72E-10
5233	421035.26	3733833.93	2.10E-09	9.61E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.04E-10	0.00E+00	7.81E-10
5234	421043.16	3733838.72	2.13E-09	9.72E-09	2.13E-11	1.19E-08	2.92E-10	1.33E-09	0.00E+00	1.62E-09	1.79E-10	6.11E-10	0.00E+00	7.90E-10
5235	421051.05	3733843.5	2.15E-09	9.84E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	0.00E+00	1.64E-09	1.81E-10	6.18E-10	0.00E+00	7.99E-10
5236	421058.95	3733848.28	2.18E-09	9.95E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.25E-10	0.00E+00	8.08E-10
5237	421066.84	3733853.07	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.85E-10	6.32E-10	0.00E+00	8.17E-10
5238	421074.74	3733857.85	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.39E-10	0.00E+00	8.26E-10
5239	421082.63	3733862.63	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.41E-09	0.00E+00	1.71E-09	1.89E-10	6.46E-10	0.00E+00	8.35E-10
5240	421090.53	3733867.42	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.52E-10	0.00E+00	8.44E-10
5241	421098.42	3733872.2	2.29E-09	1.05E-08	2.29E-11	1.28E-08	3.14E-10	1.43E-09	0.00E+00	1.75E-09	1.93E-10	6.59E-10	0.00E+00	8.52E-10
5242	421106.32	3733876.98	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	0.00E+00	1.76E-09	1.95E-10	6.65E-10	0.00E+00	8.60E-10
5243	421114.21	3733881.77	2.34E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	0.00E+00	1.78E-09	1.96E-10	6.71E-10	0.00E+00	8.67E-10
5244	421122.1	3733886.55	2.36E-09	1.08E-08	2.35E-11	1.31E-08	3.23E-10	1.47E-09	0.00E+00	1.80E-09	1.98E-10	6.77E-10	0.00E+00	8.75E-10
5245	421130	3733891.33	2.37E-09	1.09E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	0.00E+00	1.81E-09	2.00E-10	6.82E-10	0.00E+00	8.82E-10
5246	421137.89	3733896.12	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.28E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.87E-10	0.00E+00	8.88E-10

5247	421145.79	3733900.9	2.41E-09	1.10E-08	2.41E-11	1.34E-08	3.30E-10	1.50E-09	0.00E+00	1.83E-09	2.03E-10	6.92E-10	0.00E+00	8.94E-10
5248	421153.68	3733905.68	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	0.00E+00	1.85E-09	2.04E-10	6.96E-10	0.00E+00	9.00E-10
5249	421161.58	3733910.47	2.44E-09	1.11E-08	2.43E-11	1.36E-08	3.34E-10	1.52E-09	0.00E+00	1.86E-09	2.05E-10	7.00E-10	0.00E+00	9.05E-10
5250	421169.47	3733915.25	2.45E-09	1.12E-08	2.45E-11	1.37E-08	3.36E-10	1.53E-09	0.00E+00	1.87E-09	2.06E-10	7.04E-10	0.00E+00	9.10E-10
5251	421177.37	3733920.03	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.87E-09	2.07E-10	7.07E-10	0.00E+00	9.13E-10
5252	421205.63	3733964.36	2.66E-09	1.22E-08	2.66E-11	1.49E-08	3.65E-10	1.66E-09	0.00E+00	2.03E-09	2.24E-10	7.64E-10	0.00E+00	9.88E-10
5253	421208.74	3733973.04	2.71E-09	1.24E-08	2.70E-11	1.51E-08	3.71E-10	1.69E-09	0.00E+00	2.06E-09	2.28E-10	7.78E-10	0.00E+00	1.01E-09
5254	421211.86	3733981.73	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	0.00E+00	2.10E-09	2.32E-10	7.91E-10	0.00E+00	1.02E-09
5255	421230.57	3734033.86	3.02E-09	1.38E-08	3.02E-11	1.69E-08	4.14E-10	1.89E-09	0.00E+00	2.30E-09	2.54E-10	8.68E-10	0.00E+00	1.12E-09
5256	421233.68	3734042.55	3.07E-09	1.40E-08	3.06E-11	1.71E-08	4.20E-10	1.92E-09	0.00E+00	2.34E-09	2.58E-10	8.81E-10	0.00E+00	1.14E-09
5257	421236.8	3734051.24	3.11E-09	1.42E-08	3.11E-11	1.73E-08	4.26E-10	1.94E-09	0.00E+00	2.37E-09	2.61E-10	8.93E-10	0.00E+00	1.15E-09
5258	421239.92	3734059.93	3.15E-09	1.44E-08	3.15E-11	1.76E-08	4.32E-10	1.97E-09	0.00E+00	2.40E-09	2.65E-10	9.05E-10	0.00E+00	1.17E-09
5259	421243.03	3734068.62	3.19E-09	1.46E-08	3.19E-11	1.78E-08	4.38E-10	2.00E-09	0.00E+00	2.43E-09	2.69E-10	9.17E-10	0.00E+00	1.19E-09
5260	421246.15	3734077.31	3.23E-09	1.48E-08	3.23E-11	1.81E-08	4.43E-10	2.02E-09	0.00E+00	2.47E-09	2.72E-10	9.29E-10	0.00E+00	1.20E-09
5261	421249.27	3734085.99	3.27E-09	1.50E-08	3.27E-11	1.83E-08	4.49E-10	2.05E-09	0.00E+00	2.50E-09	2.75E-10	9.41E-10	0.00E+00	1.22E-09
5262	421252.39	3734094.68	3.32E-09	1.52E-08	3.31E-11	1.85E-08	4.54E-10	2.07E-09	0.00E+00	2.53E-09	2.79E-10	9.53E-10	0.00E+00	1.23E-09
5263	421255.5	3734103.37	3.36E-09	1.53E-08	3.36E-11	1.87E-08	4.60E-10	2.10E-09	0.00E+00	2.56E-09	2.82E-10	9.65E-10	0.00E+00	1.25E-09
5264	421258.62	3734112.06	3.40E-09	1.55E-08	3.40E-11	1.90E-08	4.66E-10	2.12E-09	0.00E+00	2.59E-09	2.86E-10	9.76E-10	0.00E+00	1.26E-09
5265	421261.74	3734120.75	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.89E-10	0.00E+00	1.28E-09
5266	421264.86	3734129.44	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.18E-09	0.00E+00	2.66E-09	2.93E-10	1.00E-09	0.00E+00	1.29E-09
5267	421267.97	3734138.13	3.53E-09	1.61E-08	3.53E-11	1.97E-08	4.83E-10	2.21E-09	0.00E+00	2.69E-09	2.97E-10	1.01E-09	0.00E+00	1.31E-09
5268	421271.09	3734146.81	3.57E-09	1.63E-08	3.57E-11	1.99E-08	4.90E-10	2.23E-09	0.00E+00	2.72E-09	3.00E-10	1.03E-09	0.00E+00	1.33E-09
5269	421274.21	3734155.5	3.62E-09	1.65E-08	3.62E-11	2.02E-08	4.96E-10	2.26E-09	0.00E+00	2.76E-09	3.04E-10	1.04E-09	0.00E+00	1.34E-09
5270	421277.33	3734164.19	3.67E-09	1.68E-08	3.66E-11	2.05E-08	5.02E-10	2.29E-09	0.00E+00	2.79E-09	3.08E-10	1.05E-09	0.00E+00	1.36E-09
5271	421280.44	3734172.88	3.72E-09	1.70E-08	3.71E-11	2.07E-08	5.09E-10	2.32E-09	0.00E+00	2.83E-09	3.13E-10	1.07E-09	0.00E+00	1.38E-09
5272	421283.56	3734181.57	3.77E-09	1.72E-08	3.77E-11	2.10E-08	5.16E-10	2.36E-09	0.00E+00	2.87E-09	3.17E-10	1.08E-09	0.00E+00	1.40E-09
5273	421286.68	3734190.26	3.82E-09	1.75E-08	3.82E-11	2.13E-08	5.24E-10	2.39E-09	0.00E+00	2.91E-09	3.22E-10	1.10E-09	0.00E+00	1.42E-09
5274	421289.79	3734198.94	3.88E-09	1.77E-08	3.88E-11	2.17E-08	5.32E-10	2.43E-09	0.00E+00	2.96E-09	3.26E-10	1.11E-09	0.00E+00	1.44E-09
5275	421292.91	3734207.63	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	0.00E+00	3.00E-09	3.31E-10	1.13E-09	0.00E+00	1.46E-09
5276	421296.03	3734216.32	4.00E-09	1.83E-08	4.00E-11	2.23E-08	5.49E-10	2.50E-09	0.00E+00	3.05E-09	3.37E-10	1.15E-09	0.00E+00	1.49E-09
5277	421299.15	3734225.01	4.07E-09	1.86E-08	4.07E-11	2.27E-08	5.58E-10	2.54E-09	0.00E+00	3.10E-09	3.42E-10	1.17E-09	0.00E+00	1.51E-09
5278	421302.26	3734233.7	4.14E-09	1.89E-08	4.14E-11	2.31E-08	5.67E-10	2.59E-09	0.00E+00	3.15E-09	3.48E-10	1.19E-09	0.00E+00	1.54E-09
5279	421305.38	3734242.39	4.21E-09	1.93E-08	4.21E-11	2.35E-08	5.77E-10	2.63E-09	0.00E+00	3.21E-09	3.54E-10	1.21E-09	0.00E+00	1.56E-09
5280	421320.97	3734285.83	4.63E-09	2.12E-08	4.63E-11	2.59E-08	6.35E-10	2.90E-09	0.00E+00	3.53E-09	3.90E-10	1.33E-09	0.00E+00	1.72E-09
5281	420861.58	3733728.69	1.59E-09	7.25E-09	1.59E-11	8.86E-09	2.17E-10	9.92E-10	0.00E+00	1.21E-09	1.33E-10	4.56E-10	0.00E+00	5.89E-10
5282	420852.54	3733726.82	1.58E-09	7.21E-09	1.58E-11	8.80E-09	2.16E-10	9.85E-10	0.00E+00	1.20E-09	1.33E-10	4.53E-10	0.00E+00	5.85E-10
5283	420843.5	3733724.95	1.57E-09	7.16E-09	1.56E-11	8.74E-09	2.15E-10	9.79E-10	0.00E+00	1.19E-09	1.32E-10	4.50E-10	0.00E+00	5.81E-10
5284	420901.19	3733708.61	1.52E-09	6.93E-09	1.52E-11	8.46E-09	2.08E-10	9.48E-10	0.00E+00	1.16E-09	1.28E-10	4.36E-10	0.00E+00	5.63E-10
5285	420909.07	3733713.39	1.53E-09	7.02E-09	1.53E-11	8.57E-09	2.10E-10	9.59E-10	0.00E+00	1.17E-09	1.29E-10	4.41E-10	0.00E+00	5.70E-10
5286	420916.94	3733718.16	1.55E-09	7.10E-09	1.55E-11	8.67E-09	2.13E-10	9.71E-10	0.00E+00	1.18E-09	1.31E-10	4.46E-10	0.00E+00	5.77E-10
5287	420924.82	3733722.93	1.57E-09	7.19E-09	1.57E-11	8.78E-09	2.16E-10	9.83E-10	0.00E+00	1.20E-09	1.32E-10	4.52E-10	0.00E+00	5.84E-10
5288	420948.45	3733737.25	1.63E-09	7.46E-09	1.63E-11	9.10E-09	2.24E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.69E-10	0.00E+00	6.06E-10
5289	420956.33	3733742.02	1.65E-09	7.55E-09	1.65E-11	9.22E-09	2.26E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.74E-10	0.00E+00	6.13E-10
5290	420964.2	3733746.79	1.67E-09	7.64E-09	1.67E-11	9.33E-09	2.29E-10	1.04E-09	0.00E+00	1.27E-09	1.41E-10	4.80E-10	0.00E+00	6.21E-10
5291	420972.08	3733751.57	1.69E-09	7.73E-09	1.69E-11	9.44E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.86E-10	0.00E+00	6.28E-10
5292	420979.95	3733756.34	1.71E-09	7.82E-09	1.71E-11	9.55E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.92E-10	0.00E+00	6.35E-10
5293	420987.83	3733761.11	1.73E-09	7.92E-09	1.73E-11	9.66E-09	2.37E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.97E-10	0.00E+00	6.43E-10
5294	421003.58	3733770.66	1.77E-09	8.10E-09	1.77E-11	9.89E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.09E-10	0.00E+00	6.58E-10
5295	421011.46	3733775.43	1.79E-09	8.20E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.15E-10	0.00E+00	6.66E-10
5296	421019.34	3733780.2	1.81E-09	8.29E-09	1.81E-11	1.01E-08	2.49E-10	1.13E-09	0.00E+00	1.38E-09	1.53E-10	5.21E-10	0.00E+00	6.74E-10
5297	421027.21	3733784.97	1.83E-09	8.39E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.82E-10
5298	421035.09	3733789.75	1.86E-09	8.48E-09	1.85E-11	1.04E-08	2.54E-10	1.16E-09	0.00E+00	1.41E-09	1.56E-10	5.33E-10	0.00E+00	6.89E-10
5299	421042.97	3733794.52	1.88E-09	8.58E-09	1.88E-11	1.05E-08	2.57E-10	1.17E-09	0.00E+00	1.43E-09	1.58E-10	5.39E-10	0.00E+00	6.97E-10
5300	421050.84	3733799.29	1.90E-09	8.67E-09	1.90E-11	1.06E-08	2.60E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.45E-10	0.00E+00	7.05E-10
5301	421058.72	3733804.06	1.92E-09	8.77E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.51E-10	0.00E+00	7.13E-10
5302	421066.6	3733808.84	1.94E-09	8.87E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.21E-10
5303	421074.47	3733813.61	1.96E-09	8.97E-09	1.96E-11	1.09E-08	2.69E-10	1.23E-09	0.00E+00	1.49E-09	1.65E-10	5.63E-10	0.00E+00	7.28E-10
5304	421082.35	3733818.38	1.98E-09	9.06E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	0.00E+00	1.51E-09	1.67E-10	5.69E-10	0.00E+00	7.36E-10
5305	421090.23	3733823.15	2.00E-09	9.15E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	0.00E+00	1.53E-09	1.68E-10	5.75E-10	0.00E+00	7.44E-10
5306	421098.1	3733827.93	2.02E-09	9.25E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.81E-10	0.00E+00	7.51E-10
5307	421105.98	3733832.7	2.04E-09	9.34E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.87E-10	0.00E+00	7.59E-10
5308	421113.86	3733837.47	2.06E-09	9.43E-09	2.06E-11	1.15E-08	2.83E-10	1.29E-09	0.00E+00	1.57E-09	1.74E-10	5.93E-10	0.00E+00	7.66E-10
5309	421121.73	3733842.24	2.08E-09	9.51E-09	2.08E-11	1.16E-08	2.85E-10	1.30E-09	0.00E+00	1.59E-09	1.75E-10	5.98E-10	0.00E+00	7.73E-10
5310	421129.61	3733847.02	2.10E-09	9.60E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.03E-10	0.00E+00	7.80E-10
5311	421137.48	3733851.79	2.12E-09	9.68E-09	2.12E-11	1.18E-08	2.90E-10	1.32E-09	0.00E+00	1.61E-09	1.78E-10	6.09E-10	0.00E+00	7.87E-10
5312	421145.36	3733856.56	2.14E-09	9.76E-09	2.13E-11	1.19E-08	2.93E-10	1.34E-09	0.00E+00	1.63E-09	1.80E-10	6.14E-10	0.00E+00	7.93E-10
5313	421153.24	3733861.33	2.15E-09	9.84E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	0.00E+00	1.64E-09	1.81E-10	6.18E-10	0.00E+00	7.99E-10
5314	421161.11	3733866.11	2.17E-09	9.90E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	0.00E+00	1.65E-09	1.82E-10	6.22E-10	0.00E+00	8.05E-10
5315	421168.99	3733870.88	2.18E-09	9.97E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	0.00E+00	1.66E-09	1.83E-10	6.27E-10	0.00E+00	8.10E-10
5316	421176.87	3733875.65	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.01E-10	1.37E-09	0.00E+00	1.67E-09	1.84E-10	6.30E-10	0.00E+00	8.15E-10
5317	421184.74	3733880.42	2.21E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	0.00E+00	1.68E-09	1.86E-10	6.34E-10	0.00E+00	8.19E-10
5318	421192.62	3733885.2	2.22E-09	1.01E-08	2.21E-11	1.24E-08	3.04E-10	1.39E-09	0.00E+00	1.69E-09	1.86E-10	6.37E-10	0.00E+00	8.23E-10
5319	421200.5	3733889.97	2.23E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.40E-10	0.00E+00	8.27E-10
5320	421208.37	3733894.74	2.23E-09	1.02E-08	2.23E-11	1.25E-08	3.06E-10	1.40E-09	0.00E+00	1.70E-09	1.88E-10	6.42E-10	0.00E+00	8.30E-10
5321	421216.25	3733899.51	2.24E-09	1.03E-08	2.24E-11	1.25E-08	3.07E-10	1.40E-09	0.00E+00	1.71E-09	1.89E-10	6.44E-10	0.00E+00	8.33E-10

5322	421255.23	3733990.97	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.55E-10	0.00E+00	9.76E-10
5323	421258.34	3733999.64	2.66E-09	1.22E-08	2.66E-11	1.49E-08	3.65E-10	1.67E-09	0.00E+00	2.03E-09	2.24E-10	7.65E-10	0.00E+00	9.89E-10
5324	421261.45	3734008.31	2.70E-09	1.23E-08	2.70E-11	1.51E-08	3.70E-10	1.69E-09	0.00E+00	2.06E-09	2.27E-10	7.76E-10	0.00E+00	1.00E-09
5325	421264.56	3734016.98	2.73E-09	1.25E-08	2.73E-11	1.53E-08	3.75E-10	1.71E-09	0.00E+00	2.08E-09	2.30E-10	7.86E-10	0.00E+00	1.02E-09
5326	421267.67	3734025.65	2.77E-09	1.27E-08	2.77E-11	1.55E-08	3.79E-10	1.73E-09	0.00E+00	2.11E-09	2.33E-10	7.95E-10	0.00E+00	1.03E-09
5327	421270.78	3734034.31	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.84E-10	1.75E-09	0.00E+00	2.14E-09	2.36E-10	8.05E-10	0.00E+00	1.04E-09
5328	421273.89	3734042.98	2.84E-09	1.30E-08	2.83E-11	1.58E-08	3.89E-10	1.77E-09	0.00E+00	2.16E-09	2.39E-10	8.15E-10	0.00E+00	1.05E-09
5329	421277	3734051.65	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.93E-10	1.79E-09	0.00E+00	2.19E-09	2.41E-10	8.25E-10	0.00E+00	1.07E-09
5330	421280.11	3734060.32	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.98E-10	1.82E-09	0.00E+00	2.21E-09	2.44E-10	8.34E-10	0.00E+00	1.08E-09
5331	421283.22	3734068.99	2.94E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.84E-09	0.00E+00	2.24E-09	2.47E-10	8.44E-10	0.00E+00	1.09E-09
5332	421286.33	3734077.66	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.86E-09	0.00E+00	2.26E-09	2.50E-10	8.53E-10	0.00E+00	1.10E-09
5333	421289.44	3734086.33	3.00E-09	1.37E-08	3.00E-11	1.68E-08	4.11E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.63E-10	0.00E+00	1.12E-09
5334	421292.55	3734094.99	3.03E-09	1.39E-08	3.03E-11	1.69E-08	4.15E-10	1.89E-09	0.00E+00	2.31E-09	2.55E-10	8.71E-10	0.00E+00	1.13E-09
5335	421295.66	3734103.66	3.06E-09	1.40E-08	3.06E-11	1.71E-08	4.20E-10	1.92E-09	0.00E+00	2.34E-09	2.58E-10	8.81E-10	0.00E+00	1.14E-09
5336	421298.77	3734112.33	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.25E-10	1.94E-09	0.00E+00	2.37E-09	2.61E-10	8.92E-10	0.00E+00	1.15E-09
5337	421301.88	3734121	3.14E-09	1.43E-08	3.14E-11	1.75E-08	4.30E-10	1.96E-09	0.00E+00	2.39E-09	2.64E-10	9.02E-10	0.00E+00	1.17E-09
5338	421304.99	3734129.67	3.17E-09	1.45E-08	3.17E-11	1.77E-08	4.35E-10	1.98E-09	0.00E+00	2.42E-09	2.67E-10	9.12E-10	0.00E+00	1.18E-09
5339	421308.1	3734138.34	3.21E-09	1.47E-08	3.21E-11	1.79E-08	4.40E-10	2.01E-09	0.00E+00	2.45E-09	2.70E-10	9.23E-10	0.00E+00	1.19E-09
5340	421311.21	3734147	3.25E-09	1.49E-08	3.25E-11	1.81E-08	4.45E-10	2.03E-09	0.00E+00	2.48E-09	2.73E-10	9.34E-10	0.00E+00	1.21E-09
5341	421314.32	3734155.67	3.29E-09	1.50E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.45E-10	0.00E+00	1.22E-09
5342	421317.43	3734164.34	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.57E-10	2.08E-09	0.00E+00	2.54E-09	2.80E-10	9.57E-10	0.00E+00	1.24E-09
5343	421320.54	3734173.01	3.37E-09	1.54E-08	3.37E-11	1.88E-08	4.63E-10	2.11E-09	0.00E+00	2.57E-09	2.84E-10	9.70E-10	0.00E+00	1.25E-09
5344	421323.65	3734181.68	3.42E-09	1.56E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	0.00E+00	2.61E-09	2.88E-10	9.83E-10	0.00E+00	1.27E-09
5345	421326.76	3734190.35	3.47E-09	1.59E-08	3.47E-11	1.94E-08	4.75E-10	2.17E-09	0.00E+00	2.64E-09	2.92E-10	9.96E-10	0.00E+00	1.29E-09
5346	421329.87	3734199.02	3.52E-09	1.61E-08	3.52E-11	1.96E-08	4.82E-10	2.20E-09	0.00E+00	2.68E-09	2.96E-10	1.01E-09	0.00E+00	1.31E-09
5347	421332.98	3734207.68	3.57E-09	1.63E-08	3.57E-11	1.99E-08	4.90E-10	2.23E-09	0.00E+00	2.72E-09	3.00E-10	1.03E-09	0.00E+00	1.33E-09
5348	421336.09	3734216.35	3.63E-09	1.66E-08	3.63E-11	2.02E-08	4.97E-10	2.27E-09	0.00E+00	2.76E-09	3.05E-10	1.04E-09	0.00E+00	1.35E-09
5349	421339.2	3734225.02	3.69E-09	1.68E-08	3.68E-11	2.06E-08	5.05E-10	2.30E-09	0.00E+00	2.81E-09	3.10E-10	1.06E-09	0.00E+00	1.37E-09
5350	421342.31	3734233.69	3.75E-09	1.71E-08	3.75E-11	2.09E-08	5.14E-10	2.34E-09	0.00E+00	2.86E-09	3.15E-10	1.08E-09	0.00E+00	1.39E-09
5351	421345.42	3734242.36	3.81E-09	1.74E-08	3.81E-11	2.13E-08	5.23E-10	2.38E-09	0.00E+00	2.91E-09	3.21E-10	1.10E-09	0.00E+00	1.42E-09
5352	421360.98	3734285.7	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	0.00E+00	3.19E-09	3.52E-10	1.20E-09	0.00E+00	1.55E-09
5353	420869.68	3733689.52	1.44E-09	6.59E-09	1.44E-11	8.04E-09	1.98E-10	9.01E-10	0.00E+00	1.10E-09	1.21E-10	4.14E-10	0.00E+00	5.35E-10
5354	420860.64	3733687.65	1.43E-09	6.55E-09	1.43E-11	7.99E-09	1.96E-10	8.95E-10	0.00E+00	1.09E-09	1.20E-10	4.11E-10	0.00E+00	5.32E-10
5355	420851.6	3733685.78	1.42E-09	6.51E-09	1.42E-11	7.94E-09	1.95E-10	8.90E-10	0.00E+00	1.08E-09	1.20E-10	4.09E-10	0.00E+00	5.29E-10
5356	420909.23	3733669.4	1.38E-09	6.32E-09	1.38E-11	7.71E-09	1.89E-10	8.64E-10	0.00E+00	1.05E-09	1.16E-10	3.97E-10	0.00E+00	5.13E-10
5357	420917.09	3733674.17	1.40E-09	6.39E-09	1.40E-11	7.80E-09	1.92E-10	8.74E-10	0.00E+00	1.07E-09	1.18E-10	4.02E-10	0.00E+00	5.19E-10
5358	420924.95	3733678.93	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	0.00E+00	1.08E-09	1.19E-10	4.06E-10	0.00E+00	5.25E-10
5359	420932.81	3733683.69	1.43E-09	6.54E-09	1.43E-11	7.98E-09	1.96E-10	8.94E-10	0.00E+00	1.09E-09	1.20E-10	4.11E-10	0.00E+00	5.31E-10
5360	420940.67	3733688.46	1.45E-09	6.61E-09	1.45E-11	8.07E-09	1.98E-10	9.04E-10	0.00E+00	1.10E-09	1.22E-10	4.16E-10	0.00E+00	5.37E-10
5361	420972.11	3733707.51	1.51E-09	6.92E-09	1.51E-11	8.45E-09	2.07E-10	9.46E-10	0.00E+00	1.15E-09	1.27E-10	4.35E-10	0.00E+00	5.62E-10
5362	420979.97	3733712.27	1.53E-09	7.00E-09	1.53E-11	8.54E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.68E-10
5363	420987.84	3733717.03	1.55E-09	7.08E-09	1.55E-11	8.64E-09	2.12E-10	9.68E-10	0.00E+00	1.18E-09	1.30E-10	4.45E-10	0.00E+00	5.75E-10
5364	420995.7	3733721.8	1.56E-09	7.15E-09	1.56E-11	8.73E-09	2.14E-10	9.78E-10	0.00E+00	1.19E-09	1.32E-10	4.50E-10	0.00E+00	5.81E-10
5365	421003.56	3733726.56	1.58E-09	7.23E-09	1.58E-11	8.83E-09	2.17E-10	9.89E-10	0.00E+00	1.21E-09	1.33E-10	4.55E-10	0.00E+00	5.88E-10
5366	421027.14	3733740.85	1.63E-09	7.47E-09	1.63E-11	9.13E-09	2.24E-10	1.02E-09	0.00E+00	1.25E-09	1.38E-10	4.70E-10	0.00E+00	6.07E-10
5367	421035	3733745.61	1.65E-09	7.56E-09	1.65E-11	9.22E-09	2.27E-10	1.03E-09	0.00E+00	1.26E-09	1.39E-10	4.75E-10	0.00E+00	6.14E-10
5368	421042.86	3733750.37	1.67E-09	7.64E-09	1.67E-11	9.33E-09	2.29E-10	1.04E-09	0.00E+00	1.27E-09	1.41E-10	4.80E-10	0.00E+00	6.21E-10
5369	421050.72	3733755.14	1.69E-09	7.72E-09	1.69E-11	9.43E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.85E-10	0.00E+00	6.27E-10
5370	421058.58	3733759.9	1.71E-09	7.80E-09	1.71E-11	9.53E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.44E-10	4.90E-10	0.00E+00	6.34E-10
5371	421066.44	3733764.66	1.73E-09	7.89E-09	1.72E-11	9.63E-09	2.36E-10	1.08E-09	0.00E+00	1.32E-09	1.45E-10	4.96E-10	0.00E+00	6.41E-10
5372	421074.3	3733769.43	1.74E-09	7.97E-09	1.74E-11	9.73E-09	2.39E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.01E-10	0.00E+00	6.48E-10
5373	421082.16	3733774.19	1.76E-09	8.06E-09	1.76E-11	9.83E-09	2.42E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.06E-10	0.00E+00	6.55E-10
5374	421090.02	3733778.95	1.78E-09	8.14E-09	1.78E-11	9.93E-09	2.44E-10	1.11E-09	0.00E+00	1.36E-09	1.50E-10	5.11E-10	0.00E+00	6.61E-10
5375	421097.88	3733783.71	1.80E-09	8.22E-09	1.80E-11	1.00E-08	2.46E-10	1.12E-09	0.00E+00	1.37E-09	1.51E-10	5.17E-10	0.00E+00	6.68E-10
5376	421105.74	3733788.48	1.82E-09	8.30E-09	1.82E-11	1.01E-08	2.49E-10	1.14E-09	0.00E+00	1.38E-09	1.53E-10	5.22E-10	0.00E+00	6.75E-10
5377	421113.61	3733793.24	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	0.00E+00	1.40E-09	1.54E-10	5.27E-10	0.00E+00	6.81E-10
5378	421121.47	3733798	1.85E-09	8.46E-09	1.85E-11	1.03E-08	2.54E-10	1.16E-09	0.00E+00	1.41E-09	1.56E-10	5.32E-10	0.00E+00	6.88E-10
5379	421129.33	3733802.77	1.87E-09	8.54E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	0.00E+00	1.42E-09	1.57E-10	5.37E-10	0.00E+00	6.94E-10
5380	421137.19	3733807.53	1.89E-09	8.62E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.42E-10	0.00E+00	7.00E-10
5381	421145.05	3733812.29	1.90E-09	8.69E-09	1.90E-11	1.06E-08	2.61E-10	1.19E-09	0.00E+00	1.45E-09	1.60E-10	5.46E-10	0.00E+00	7.06E-10
5382	421152.91	3733817.05	1.92E-09	8.77E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.51E-10	0.00E+00	7.12E-10
5383	421160.77	3733821.82	1.93E-09	8.84E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	0.00E+00	1.47E-09	1.63E-10	5.55E-10	0.00E+00	7.18E-10
5384	421168.63	3733826.58	1.95E-09	8.90E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	0.00E+00	1.48E-09	1.64E-10	5.59E-10	0.00E+00	7.23E-10
5385	421176.49	3733831.34	1.96E-09	8.97E-09	1.96E-11	1.09E-08	2.69E-10	1.23E-09	0.00E+00	1.49E-09	1.65E-10	5.63E-10	0.00E+00	7.28E-10
5386	421184.35	3733836.11	1.97E-09	9.03E-09	1.97E-11	1.10E-08	2.71E-10	1.23E-09	0.00E+00	1.51E-09	1.66E-10	5.67E-10	0.00E+00	7.34E-10
5387	421192.21	3733840.87	1.99E-09	9.08E-09	1.99E-11	1.11E-08	2.72E-10	1.24E-09	0.00E+00	1.51E-09	1.67E-10	5.71E-10	0.00E+00	7.38E-10
5388	421200.07	3733845.63	2.00E-09	9.14E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	0.00E+00	1.52E-09	1.68E-10	5.74E-10	0.00E+00	7.42E-10
5389	421207.93	3733850.39	2.01E-09	9.19E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	0.00E+00	1.53E-09	1.69E-10	5.78E-10	0.00E+00	7.47E-10
5390	421215.79	3733855.16	2.02E-09	9.23E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.80E-10	0.00E+00	7.50E-10
5391	421264.41	3733904.92	2.15E-09	9.83E-09	2.15E-11	1.20E-08	2.95E-10	1.34E-09	0.00E+00	1.64E-09	1.81E-10	6.18E-10	0.00E+00	7.99E-10
5392	421267.51	3733913.58	2.18E-09	9.98E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	0.00E+00	1.66E-09	1.84E-10	6.27E-10	0.00E+00	8.11E-10
5393	421270.62	3733922.23	2.21E-09	1.01E-08	2.21E-11	1.24E-08	3.04E-10	1.38E-09	0.00E+00	1.69E-09	1.86E-10	6.36E-10	0.00E+00	8.23E-10
5394	421286.14	3733965.48	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	0.00E+00	1.81E-09	1.99E-10	6.81E-10	0.00E+00	8.81E-10
5395	421289.24	3733974.13	2.40E-09	1.10E-08	2.40E-11	1.34E-08	3.29E-10	1.50E-09	0.00E+00	1.83E-09	2.02E-10	6.90E-10	0.00E+00	8.92E-10
5396	421292.34	3733982.78	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.33E-10	1.52E-09	0.00E+00	1.85E-09	2.04E-10	6.98E-10	0.00E+00	9.03E-10

5397	421295.45	3733991.43	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.87E-09	2.07E-10	7.07E-10	0.00E+00	9.13E-10
5398	421298.55	3734000.09	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	0.00E+00	1.90E-09	2.09E-10	7.15E-10	0.00E+00	9.24E-10
5399	421301.66	3734008.74	2.52E-09	1.15E-08	2.52E-11	1.40E-08	3.45E-10	1.57E-09	0.00E+00	1.92E-09	2.12E-10	7.23E-10	0.00E+00	9.35E-10
5400	421304.76	3734017.39	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.31E-10	0.00E+00	9.45E-10
5401	421307.86	3734026.04	2.57E-09	1.18E-08	2.57E-11	1.44E-08	3.53E-10	1.61E-09	0.00E+00	1.96E-09	2.16E-10	7.39E-10	0.00E+00	9.55E-10
5402	421310.97	3734034.69	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.63E-09	0.00E+00	1.98E-09	2.19E-10	7.47E-10	0.00E+00	9.66E-10
5403	421314.07	3734043.34	2.63E-09	1.20E-08	2.62E-11	1.47E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.55E-10	0.00E+00	9.75E-10
5404	421317.18	3734051.99	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.64E-10	1.66E-09	0.00E+00	2.02E-09	2.23E-10	7.62E-10	0.00E+00	9.86E-10
5405	421320.28	3734060.64	2.68E-09	1.23E-08	2.68E-11	1.50E-08	3.68E-10	1.68E-09	0.00E+00	2.04E-09	2.26E-10	7.70E-10	0.00E+00	9.96E-10
5406	421323.38	3734069.29	2.71E-09	1.24E-08	2.71E-11	1.51E-08	3.71E-10	1.69E-09	0.00E+00	2.06E-09	2.28E-10	7.78E-10	0.00E+00	1.01E-09
5407	421326.49	3734077.95	2.73E-09	1.25E-08	2.73E-11	1.53E-08	3.75E-10	1.71E-09	0.00E+00	2.08E-09	2.30E-10	7.86E-10	0.00E+00	1.02E-09
5408	421329.59	3734086.6	2.76E-09	1.26E-08	2.76E-11	1.54E-08	3.79E-10	1.73E-09	0.00E+00	2.10E-09	2.32E-10	7.93E-10	0.00E+00	1.03E-09
5409	421332.7	3734095.25	2.79E-09	1.28E-08	2.79E-11	1.56E-08	3.82E-10	1.74E-09	0.00E+00	2.13E-09	2.35E-10	8.01E-10	0.00E+00	1.04E-09
5410	421335.8	3734103.9	2.82E-09	1.29E-08	2.82E-11	1.57E-08	3.86E-10	1.76E-09	0.00E+00	2.15E-09	2.37E-10	8.10E-10	0.00E+00	1.05E-09
5411	421338.9	3734112.55	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.90E-10	1.78E-09	0.00E+00	2.17E-09	2.40E-10	8.18E-10	0.00E+00	1.06E-09
5412	421342.01	3734121.2	2.88E-09	1.32E-08	2.88E-11	1.61E-08	3.94E-10	1.80E-09	0.00E+00	2.19E-09	2.42E-10	8.27E-10	0.00E+00	1.07E-09
5413	421345.11	3734129.85	2.91E-09	1.33E-08	2.91E-11	1.62E-08	3.99E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.36E-10	0.00E+00	1.08E-09
5414	421348.21	3734138.5	2.94E-09	1.34E-08	2.94E-11	1.64E-08	4.03E-10	1.84E-09	0.00E+00	2.24E-09	2.47E-10	8.45E-10	0.00E+00	1.09E-09
5415	421351.32	3734147.15	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.08E-10	1.86E-09	0.00E+00	2.27E-09	2.50E-10	8.54E-10	0.00E+00	1.10E-09
5416	421354.42	3734155.8	3.01E-09	1.38E-08	3.01E-11	1.68E-08	4.12E-10	1.88E-09	0.00E+00	2.29E-09	2.53E-10	8.64E-10	0.00E+00	1.12E-09
5417	421357.53	3734164.46	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	0.00E+00	2.32E-09	2.56E-10	8.75E-10	0.00E+00	1.13E-09
5418	421360.63	3734173.11	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.23E-10	1.93E-09	0.00E+00	2.35E-09	2.59E-10	8.86E-10	0.00E+00	1.14E-09
5419	421363.73	3734181.76	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	0.00E+00	2.38E-09	2.63E-10	8.97E-10	0.00E+00	1.16E-09
5420	421366.84	3734190.41	3.16E-09	1.45E-08	3.16E-11	1.77E-08	4.34E-10	1.98E-09	0.00E+00	2.41E-09	2.66E-10	9.09E-10	0.00E+00	1.18E-09
5421	421369.94	3734199.06	3.21E-09	1.47E-08	3.20E-11	1.79E-08	4.39E-10	2.00E-09	0.00E+00	2.44E-09	2.70E-10	9.21E-10	0.00E+00	1.19E-09
5422	421373.05	3734207.71	3.25E-09	1.49E-08	3.25E-11	1.81E-08	4.46E-10	2.03E-09	0.00E+00	2.48E-09	2.73E-10	9.34E-10	0.00E+00	1.21E-09
5423	421376.15	3734216.36	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.52E-10	2.06E-09	0.00E+00	2.51E-09	2.77E-10	9.48E-10	0.00E+00	1.23E-09
5424	421379.25	3734225.01	3.34E-09	1.53E-08	3.34E-11	1.87E-08	4.58E-10	2.09E-09	0.00E+00	2.55E-09	2.81E-10	9.61E-10	0.00E+00	1.24E-09
5425	421382.36	3734233.66	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	0.00E+00	2.58E-09	2.85E-10	9.74E-10	0.00E+00	1.26E-09
5426	421385.46	3734242.31	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.71E-10	2.15E-09	0.00E+00	2.62E-09	2.89E-10	9.88E-10	0.00E+00	1.28E-09
5427	421400.98	3734285.57	3.77E-09	1.72E-08	3.77E-11	2.10E-08	5.17E-10	2.36E-09	0.00E+00	2.87E-09	3.17E-10	1.08E-09	0.00E+00	1.40E-09
5428	420877.79	3733650.35	1.32E-09	6.03E-09	1.32E-11	7.36E-09	1.81E-10	8.24E-10	0.00E+00	1.00E-09	1.11E-10	3.79E-10	0.00E+00	4.90E-10
5429	420868.75	3733648.48	1.31E-09	5.99E-09	1.31E-11	7.31E-09	1.80E-10	8.19E-10	0.00E+00	9.99E-10	1.10E-10	3.77E-10	0.00E+00	4.87E-10
5430	420859.71	3733646.61	1.30E-09	5.96E-09	1.30E-11	7.27E-09	1.79E-10	8.14E-10	0.00E+00	9.93E-10	1.10E-10	3.74E-10	0.00E+00	4.84E-10
5431	420893.74	3733615.94	1.23E-09	5.61E-09	1.23E-11	6.85E-09	1.68E-10	7.67E-10	0.00E+00	9.35E-10	1.03E-10	3.53E-10	0.00E+00	4.56E-10
5432	420917.28	3733630.2	1.27E-09	5.80E-09	1.27E-11	7.08E-09	1.74E-10	7.93E-10	0.00E+00	9.67E-10	1.07E-10	3.64E-10	0.00E+00	4.71E-10
5433	420925.12	3733634.95	1.28E-09	5.86E-09	1.28E-11	7.16E-09	1.76E-10	8.01E-10	0.00E+00	9.77E-10	1.08E-10	3.68E-10	0.00E+00	4.76E-10
5434	420932.97	3733639.71	1.30E-09	5.92E-09	1.30E-11	7.23E-09	1.78E-10	8.10E-10	0.00E+00	9.88E-10	1.09E-10	3.72E-10	0.00E+00	4.81E-10
5435	420940.82	3733644.46	1.31E-09	5.99E-09	1.31E-11	7.31E-09	1.80E-10	8.19E-10	0.00E+00	9.98E-10	1.10E-10	3.76E-10	0.00E+00	4.86E-10
5436	420948.66	3733649.22	1.32E-09	6.05E-09	1.32E-11	7.39E-09	1.81E-10	8.27E-10	0.00E+00	1.01E-09	1.11E-10	3.80E-10	0.00E+00	4.92E-10
5437	420956.51	3733653.97	1.34E-09	6.12E-09	1.34E-11	7.47E-09	1.83E-10	8.36E-10	0.00E+00	1.02E-09	1.13E-10	3.84E-10	0.00E+00	4.97E-10
5438	420964.36	3733658.73	1.35E-09	6.18E-09	1.35E-11	7.54E-09	1.85E-10	8.45E-10	0.00E+00	1.03E-09	1.14E-10	3.88E-10	0.00E+00	5.02E-10
5439	420995.74	3733677.74	1.41E-09	6.45E-09	1.41E-11	7.87E-09	1.93E-10	8.81E-10	0.00E+00	1.07E-09	1.19E-10	4.05E-10	0.00E+00	5.24E-10
5440	421003.59	3733682.5	1.42E-09	6.51E-09	1.42E-11	7.95E-09	1.95E-10	8.91E-10	0.00E+00	1.09E-09	1.20E-10	4.09E-10	0.00E+00	5.29E-10
5441	421011.43	3733687.25	1.44E-09	6.58E-09	1.44E-11	8.04E-09	1.97E-10	9.00E-10	0.00E+00	1.10E-09	1.21E-10	4.14E-10	0.00E+00	5.35E-10
5442	421019.28	3733692.01	1.45E-09	6.65E-09	1.45E-11	8.12E-09	1.99E-10	9.09E-10	0.00E+00	1.11E-09	1.22E-10	4.18E-10	0.00E+00	5.40E-10
5443	421027.13	3733696.76	1.47E-09	6.72E-09	1.47E-11	8.20E-09	2.01E-10	9.19E-10	0.00E+00	1.12E-09	1.24E-10	4.22E-10	0.00E+00	5.46E-10
5444	421050.67	3733711.02	1.52E-09	6.93E-09	1.51E-11	8.46E-09	2.08E-10	9.47E-10	0.00E+00	1.16E-09	1.27E-10	4.35E-10	0.00E+00	5.63E-10
5445	421058.51	3733715.78	1.53E-09	7.00E-09	1.53E-11	8.55E-09	2.10E-10	9.57E-10	0.00E+00	1.17E-09	1.29E-10	4.40E-10	0.00E+00	5.69E-10
5446	421066.36	3733720.53	1.55E-09	7.07E-09	1.55E-11	8.63E-09	2.12E-10	9.67E-10	0.00E+00	1.18E-09	1.30E-10	4.44E-10	0.00E+00	5.75E-10
5447	421074.21	3733725.29	1.56E-09	7.15E-09	1.56E-11	8.72E-09	2.14E-10	9.77E-10	0.00E+00	1.19E-09	1.31E-10	4.49E-10	0.00E+00	5.81E-10
5448	421082.05	3733730.04	1.58E-09	7.22E-09	1.58E-11	8.81E-09	2.16E-10	9.87E-10	0.00E+00	1.20E-09	1.33E-10	4.54E-10	0.00E+00	5.87E-10
5449	421089.9	3733734.8	1.59E-09	7.29E-09	1.59E-11	8.90E-09	2.19E-10	9.97E-10	0.00E+00	1.22E-09	1.34E-10	4.58E-10	0.00E+00	5.92E-10
5450	421097.75	3733739.55	1.61E-09	7.36E-09	1.61E-11	8.99E-09	2.21E-10	1.01E-09	0.00E+00	1.23E-09	1.35E-10	4.63E-10	0.00E+00	5.98E-10
5451	421105.59	3733744.31	1.63E-09	7.44E-09	1.63E-11	9.08E-09	2.23E-10	1.02E-09	0.00E+00	1.24E-09	1.37E-10	4.67E-10	0.00E+00	6.04E-10
5452	421113.44	3733749.06	1.64E-09	7.51E-09	1.64E-11	9.16E-09	2.25E-10	1.03E-09	0.00E+00	1.25E-09	1.38E-10	4.72E-10	0.00E+00	6.10E-10
5453	421121.29	3733753.81	1.66E-09	7.58E-09	1.66E-11	9.25E-09	2.27E-10	1.04E-09	0.00E+00	1.26E-09	1.39E-10	4.76E-10	0.00E+00	6.16E-10
5454	421129.13	3733758.57	1.67E-09	7.65E-09	1.67E-11	9.34E-09	2.29E-10	1.05E-09	0.00E+00	1.28E-09	1.41E-10	4.81E-10	0.00E+00	6.22E-10
5455	421136.98	3733763.32	1.69E-09	7.72E-09	1.69E-11	9.43E-09	2.32E-10	1.06E-09	0.00E+00	1.29E-09	1.42E-10	4.85E-10	0.00E+00	6.27E-10
5456	421144.83	3733768.08	1.70E-09	7.79E-09	1.70E-11	9.51E-09	2.34E-10	1.07E-09	0.00E+00	1.30E-09	1.43E-10	4.90E-10	0.00E+00	6.33E-10
5457	421152.67	3733772.83	1.72E-09	7.86E-09	1.72E-11	9.60E-09	2.36E-10	1.08E-09	0.00E+00	1.31E-09	1.45E-10	4.94E-10	0.00E+00	6.39E-10
5458	421160.52	3733777.59	1.73E-09	7.93E-09	1.73E-11	9.68E-09	2.38E-10	1.08E-09	0.00E+00	1.32E-09	1.46E-10	4.98E-10	0.00E+00	6.44E-10
5459	421168.37	3733782.34	1.75E-09	7.99E-09	1.75E-11	9.76E-09	2.40E-10	1.09E-09	0.00E+00	1.33E-09	1.47E-10	5.02E-10	0.00E+00	6.49E-10
5460	421176.21	3733787.09	1.76E-09	8.06E-09	1.76E-11	9.83E-09	2.42E-10	1.10E-09	0.00E+00	1.34E-09	1.48E-10	5.06E-10	0.00E+00	6.55E-10
5461	421184.06	3733791.85	1.78E-09	8.12E-09	1.77E-11	9.91E-09	2.43E-10	1.11E-09	0.00E+00	1.35E-09	1.49E-10	5.10E-10	0.00E+00	6.60E-10
5462	421191.91	3733796.6	1.79E-09	8.18E-09	1.79E-11	9.98E-09	2.45E-10	1.12E-09	0.00E+00	1.36E-09	1.50E-10	5.14E-10	0.00E+00	6.64E-10
5463	421199.75	3733801.36	1.80E-09	8.23E-09	1.80E-11	1.01E-08	2.47E-10	1.13E-09	0.00E+00	1.37E-09	1.52E-10	5.17E-10	0.00E+00	6.69E-10
5464	421207.6	3733806.11	1.81E-09	8.29E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	0.00E+00	1.38E-09	1.52E-10	5.21E-10	0.00E+00	6.73E-10
5465	421215.45	3733810.87	1.82E-09	8.34E-09	1.82E-11	1.02E-08	2.50E-10	1.14E-09	0.00E+00	1.39E-09	1.53E-10	5.24E-10	0.00E+00	6.78E-10
5466	421270.37	3733844.15	1.88E-09	8.59E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.43E-09	1.58E-10	5.40E-10	0.00E+00	6.98E-10
5467	421278.22	3733848.9	1.88E-09	8.62E-09	1.88E-11	1.05E-08	2.58E-10	1.18E-09	0.00E+00	1.44E-09	1.59E-10	5.41E-10	0.00E+00	7.00E-10
5468	421289.17	3733862.29	1.92E-09	8.76E-09	1.91E-11	1.07E-08	2.63E-10	1.20E-09	0.00E+00	1.46E-09	1.61E-10	5.50E-10	0.00E+00	7.12E-10
5469	421292.26	3733870.93	1.94E-09	8.88E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	0.00E+00	1.48E-09	1.63E-10	5.58E-10	0.00E+00	7.22E-10
5470	421295.36	3733879.56	1.97E-09	9.00E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	0.00E+00	1.50E-09	1.66E-10	5.66E-10	0.00E+00	7.32E-10
5471	421298.46	3733888.2	2.00E-09	9.13E-09	2.00E-11	1.11E-08	2.74E-10	1.25E-09	0.00E+00	1.52E-09	1.68E-10	5.74E-10	0.00E+00	7.42E-10

5472	421301.56	3733896.83	2.02E-09	9.25E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	0.00E+00	1.54E-09	1.70E-10	5.81E-10	0.00E+00	7.51E-10
5473	421304.66	3733905.47	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	0.00E+00	1.56E-09	1.72E-10	5.89E-10	0.00E+00	7.61E-10
5474	421307.76	3733914.11	2.07E-09	9.49E-09	2.07E-11	1.16E-08	2.84E-10	1.30E-09	0.00E+00	1.58E-09	1.75E-10	5.96E-10	0.00E+00	7.71E-10
5475	421310.85	3733922.74	2.10E-09	9.60E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	0.00E+00	1.60E-09	1.77E-10	6.03E-10	0.00E+00	7.80E-10
5476	421326.35	3733965.92	2.23E-09	1.02E-08	2.23E-11	1.24E-08	3.05E-10	1.39E-09	0.00E+00	1.70E-09	1.87E-10	6.40E-10	0.00E+00	8.27E-10
5477	421329.44	3733974.56	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	0.00E+00	1.72E-09	1.89E-10	6.47E-10	0.00E+00	8.36E-10
5478	421332.54	3733983.19	2.28E-09	1.04E-08	2.27E-11	1.27E-08	3.12E-10	1.42E-09	0.00E+00	1.73E-09	1.91E-10	6.54E-10	0.00E+00	8.45E-10
5479	421335.64	3733991.83	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.15E-10	1.44E-09	0.00E+00	1.75E-09	1.93E-10	6.61E-10	0.00E+00	8.54E-10
5480	421338.74	3734000.46	2.32E-09	1.06E-08	2.32E-11	1.30E-08	3.18E-10	1.45E-09	0.00E+00	1.77E-09	1.95E-10	6.67E-10	0.00E+00	8.63E-10
5481	421341.84	3734009.1	2.35E-09	1.07E-08	2.34E-11	1.31E-08	3.21E-10	1.47E-09	0.00E+00	1.79E-09	1.97E-10	6.74E-10	0.00E+00	8.71E-10
5482	421344.94	3734017.73	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	0.00E+00	1.81E-09	1.99E-10	6.80E-10	0.00E+00	8.80E-10
5483	421348.03	3734026.37	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.28E-10	1.49E-09	0.00E+00	1.82E-09	2.01E-10	6.87E-10	0.00E+00	8.88E-10
5484	421351.13	3734035	2.41E-09	1.10E-08	2.41E-11	1.35E-08	3.31E-10	1.51E-09	0.00E+00	1.84E-09	2.03E-10	6.93E-10	0.00E+00	8.96E-10
5485	421354.23	3734043.64	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.34E-10	1.52E-09	0.00E+00	1.86E-09	2.05E-10	7.00E-10	0.00E+00	9.04E-10
5486	421357.33	3734052.28	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	0.00E+00	1.87E-09	2.07E-10	7.06E-10	0.00E+00	9.13E-10
5487	421360.43	3734060.91	2.48E-09	1.13E-08	2.48E-11	1.38E-08	3.40E-10	1.55E-09	0.00E+00	1.89E-09	2.09E-10	7.12E-10	0.00E+00	9.21E-10
5488	421363.53	3734069.55	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	0.00E+00	1.91E-09	2.10E-10	7.19E-10	0.00E+00	9.29E-10
5489	421366.63	3734078.18	2.52E-09	1.15E-08	2.52E-11	1.41E-08	3.46E-10	1.58E-09	0.00E+00	1.92E-09	2.12E-10	7.25E-10	0.00E+00	9.38E-10
5490	421369.72	3734086.82	2.55E-09	1.16E-08	2.55E-11	1.42E-08	3.49E-10	1.59E-09	0.00E+00	1.94E-09	2.14E-10	7.32E-10	0.00E+00	9.46E-10
5491	421372.82	3734095.45	2.57E-09	1.18E-08	2.57E-11	1.44E-08	3.53E-10	1.61E-09	0.00E+00	1.96E-09	2.16E-10	7.39E-10	0.00E+00	9.56E-10
5492	421375.92	3734104.09	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.62E-09	0.00E+00	1.98E-09	2.19E-10	7.46E-10	0.00E+00	9.65E-10
5493	421379.02	3734112.72	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.60E-10	1.64E-09	0.00E+00	2.00E-09	2.21E-10	7.54E-10	0.00E+00	9.75E-10
5494	421382.12	3734121.36	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	0.00E+00	2.02E-09	2.23E-10	7.62E-10	0.00E+00	9.85E-10
5495	421385.22	3734130	2.68E-09	1.22E-08	2.68E-11	1.50E-08	3.67E-10	1.67E-09	0.00E+00	2.04E-09	2.25E-10	7.70E-10	0.00E+00	9.95E-10
5496	421388.31	3734138.63	2.71E-09	1.24E-08	2.71E-11	1.51E-08	3.71E-10	1.69E-09	0.00E+00	2.06E-09	2.28E-10	7.78E-10	0.00E+00	1.01E-09
5497	421391.41	3734147.27	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.75E-10	1.71E-09	0.00E+00	2.09E-09	2.30E-10	7.87E-10	0.00E+00	1.02E-09
5498	421394.51	3734155.9	2.77E-09	1.27E-08	2.77E-11	1.55E-08	3.80E-10	1.73E-09	0.00E+00	2.11E-09	2.33E-10	7.96E-10	0.00E+00	1.03E-09
5499	421397.61	3734164.54	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.84E-10	1.75E-09	0.00E+00	2.14E-09	2.36E-10	8.05E-10	0.00E+00	1.04E-09
5500	421400.71	3734173.17	2.84E-09	1.30E-08	2.83E-11	1.58E-08	3.89E-10	1.77E-09	0.00E+00	2.16E-09	2.39E-10	8.15E-10	0.00E+00	1.05E-09
5501	421403.81	3734181.81	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.80E-09	0.00E+00	2.19E-09	2.42E-10	8.25E-10	0.00E+00	1.07E-09
5502	421406.9	3734190.45	2.91E-09	1.33E-08	2.91E-11	1.62E-08	3.99E-10	1.82E-09	0.00E+00	2.22E-09	2.45E-10	8.36E-10	0.00E+00	1.08E-09
5503	421410	3734199.08	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.04E-10	1.84E-09	0.00E+00	2.25E-09	2.48E-10	8.47E-10	0.00E+00	1.10E-09
5504	421413.1	3734207.72	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.08E-10	1.86E-09	0.00E+00	2.27E-09	2.50E-10	8.55E-10	0.00E+00	1.10E-09
5505	421416.2	3734216.35	3.00E-09	1.37E-08	3.00E-11	1.68E-08	4.11E-10	1.88E-09	0.00E+00	2.29E-09	2.52E-10	8.62E-10	0.00E+00	1.11E-09
5506	421419.3	3734224.99	3.04E-09	1.39E-08	3.03E-11	1.69E-08	4.16E-10	1.90E-09	0.00E+00	2.31E-09	2.55E-10	8.72E-10	0.00E+00	1.13E-09
5507	421422.4	3734233.62	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.22E-10	1.92E-09	0.00E+00	2.35E-09	2.59E-10	8.85E-10	0.00E+00	1.14E-09
5508	421425.49	3734242.26	3.13E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	0.00E+00	2.38E-09	2.63E-10	8.98E-10	0.00E+00	1.16E-09
5509	421440.99	3734285.44	3.47E-09	1.59E-08	3.47E-11	1.94E-08	4.76E-10	2.17E-09	0.00E+00	2.65E-09	2.92E-10	9.97E-10	0.00E+00	1.29E-09
5510	420885.89	3733611.18	1.21E-09	5.55E-09	1.21E-11	6.77E-09	1.66E-10	7.58E-10	0.00E+00	9.25E-10	1.02E-10	3.49E-10	0.00E+00	4.51E-10
5511	420876.85	3733609.31	1.21E-09	5.51E-09	1.21E-11	6.73E-09	1.65E-10	7.54E-10	0.00E+00	9.19E-10	1.01E-10	3.47E-10	0.00E+00	4.48E-10
5512	420867.81	3733607.44	1.20E-09	5.48E-09	1.20E-11	6.69E-09	1.64E-10	7.50E-10	0.00E+00	9.14E-10	1.01E-10	3.45E-10	0.00E+00	4.46E-10

			T2Rev			T3L3			T4		
			2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	420751.4	3734207	8.78E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.52E-05	3.04E-08
2	420754.3	3734197	8.11E-05	3.71E-04	8.10E-07	1.11E-05	5.07E-05	1.21E-07	6.82E-06	2.33E-05	2.80E-08
3	420759.9	3734178	6.96E-05	3.18E-04	6.96E-07	9.54E-06	4.35E-05	1.04E-07	5.86E-06	2.00E-05	2.41E-08
4	420771.2	3734139	5.28E-05	2.41E-04	5.27E-07	7.23E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
5	420776.8	3734120	4.65E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
6	420782.5	3734101	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
7	420788.1	3734082	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
8	420793.8	3734063	3.32E-05	1.52E-04	3.32E-07	4.55E-06	2.08E-05	4.94E-08	2.79E-06	9.54E-06	1.15E-08
9	420799.4	3734044	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.62E-06	1.04E-08
10	420805.1	3734024	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
11	420810.7	3734005	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.57E-09
12	420822	3733967	2.09E-05	9.54E-05	2.09E-07	2.86E-06	1.30E-05	3.11E-08	1.76E-06	5.99E-06	7.21E-09
13	420844.6	3733890	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
14	420855.9	3733852	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
15	420867.2	3733813	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.14E-09
16	420878.5	3733775	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
17	420889.8	3733737	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
18	420901.1	3733698	8.77E-06	4.01E-05	8.77E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
19	420912.4	3733660	8.03E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
20	420923.7	3733621	7.40E-06	3.38E-05	7.39E-08	1.01E-06	4.62E-06	1.10E-08	6.22E-07	2.12E-06	2.56E-09
21	420710.7	3734291	2.03E-04	9.29E-04	2.03E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.84E-05	7.02E-08
22	420710.7	3734301	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.67E-05	8.02E-08
23	420710.6	3734331	3.67E-04	1.68E-03	3.67E-06	5.03E-05	2.29E-04	5.46E-07	3.09E-05	1.05E-04	1.27E-07
24	420710.5	3734341	4.39E-04	2.01E-03	4.39E-06	6.01E-05	2.74E-04	6.53E-07	3.69E-05	1.26E-04	1.52E-07
25	420710.5	3734350	5.34E-04	2.44E-03	5.34E-06	7.32E-05	3.34E-04	7.95E-07	4.50E-05	1.54E-04	1.85E-07
26	420700.7	3734301	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.37E-07	1.90E-05	6.50E-05	7.82E-08
27	420700.6	3734331	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
28	420700.5	3734341	4.25E-04	1.95E-03	4.25E-06	5.83E-05	2.66E-04	6.33E-07	3.58E-05	1.22E-04	1.47E-07
29	420700.5	3734350	5.17E-04	2.37E-03	5.17E-06	7.09E-05	3.24E-04	7.70E-07	4.35E-05	1.49E-04	1.79E-07
30	420690.7	3734301	2.20E-04	1.01E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.60E-08
31	420690.6	3734331	3.44E-04	1.57E-03	3.44E-06	4.72E-05	2.15E-04	5.13E-07	2.90E-05	9.89E-05	1.19E-07
32	420690.5	3734341	4.10E-04	1.88E-03	4.10E-06	5.62E-05	2.56E-04	6.11E-07	3.45E-05	1.18E-04	1.42E-07
33	420690.5	3734350	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
34	420684.7	3734283	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
35	420705.6	3734258	1.35E-04	6.18E-04	1.35E-06	1.85E-05	8.45E-05	2.01E-07	1.14E-05	3.88E-05	4.67E-08
36	420680.7	3734301	2.13E-04	9.76E-04	2.13E-06	2.93E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.38E-08
37	420680.6	3734331	3.32E-04	1.52E-03	3.32E-06	4.55E-05	2.08E-04	4.94E-07	2.79E-05	9.54E-05	1.15E-07
38	420680.5	3734341	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.87E-07	3.32E-05	1.13E-04	1.36E-07
39	420680.5	3734350	4.75E-04	2.17E-03	4.75E-06	6.52E-05	2.97E-04	7.08E-07	4.00E-05	1.37E-04	1.64E-07
40	420674.7	3734283	1.67E-04	7.65E-04	1.67E-06	2.29E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.78E-08
41	420699.6	3734250	1.23E-04	5.61E-04	1.23E-06	1.68E-05	7.67E-05	1.83E-07	1.03E-05	3.52E-05	4.24E-08
42	420717.2	3734247	1.23E-04	5.62E-04	1.23E-06	1.68E-05	7.68E-05	1.83E-07	1.03E-05	3.53E-05	4.25E-08
43	420670.7	3734301	2.07E-04	9.47E-04	2.07E-06	2.84E-05	1.29E-04	3.08E-07	1.74E-05	5.95E-05	7.16E-08
44	420670.6	3734331	3.20E-04	1.46E-03	3.20E-06	4.38E-05	2.00E-04	4.76E-07	2.69E-05	9.19E-05	1.10E-07
45	420670.5	3734340	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.63E-07	3.18E-05	1.09E-04	1.31E-07
46	420670.5	3734350	4.53E-04	2.07E-03	4.53E-06	6.22E-05	2.83E-04	6.75E-07	3.81E-05	1.30E-04	1.57E-07
47	420664.7	3734283	1.63E-04	7.45E-04	1.63E-06	2.23E-05	1.02E-04	2.42E-07	1.37E-05	4.68E-05	5.63E-08
48	420680.8	3734251	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.46E-05	1.78E-07	1.00E-05	3.43E-05	4.13E-08
49	420693.7	3734242	1.12E-04	5.10E-04	1.12E-06	1.53E-05	6.98E-05	1.66E-07	9.39E-06	3.21E-05	3.86E-08
50	420711.3	3734239	1.12E-04	5.13E-04	1.12E-06	1.54E-05	7.01E-05	1.67E-07	9.44E-06	3.22E-05	3.88E-08
51	420728.9	3734235	1.12E-04	5.12E-04	1.12E-06	1.53E-05	7.00E-05	1.67E-07	9.42E-06	3.22E-05	3.87E-08
52	420660.7	3734301	2.01E-04	9.19E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
53	420660.6	3734331	3.08E-04	1.41E-03	3.08E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
54	420660.5	3734340	3.62E-04	1.66E-03	3.62E-06	4.97E-05	2.26E-04	5.39E-07	3.05E-05	1.04E-04	1.25E-07
55	420660.5	3734350	4.32E-04	1.97E-03	4.31E-06	5.92E-05	2.70E-04	6.42E-07	3.63E-05	1.24E-04	1.49E-07

56	420654.7	3734283	1.59E-04	7.25E-04	1.59E-06	2.17E-05	9.92E-05	2.36E-07	1.33E-05	4.56E-05	5.48E-08
57	420670.8	3734251	1.17E-04	5.33E-04	1.17E-06	1.60E-05	7.29E-05	1.74E-07	9.81E-06	3.35E-05	4.03E-08
58	420687.7	3734234	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.58E-06	2.93E-05	3.52E-08
59	420705.3	3734231	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.63E-06	2.95E-05	3.55E-08
60	420722.9	3734227	1.03E-04	4.70E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
61	420650.7	3734301	1.95E-04	8.93E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.64E-05	5.61E-05	6.75E-08
62	420650.6	3734331	2.96E-04	1.35E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.51E-05	1.02E-07
63	420650.5	3734340	3.47E-04	1.58E-03	3.46E-06	4.75E-05	2.17E-04	5.16E-07	2.92E-05	9.96E-05	1.20E-07
64	420650.5	3734350	4.10E-04	1.87E-03	4.09E-06	5.62E-05	2.56E-04	6.10E-07	3.45E-05	1.18E-04	1.42E-07
65	420644.7	3734283	1.55E-04	7.07E-04	1.55E-06	2.12E-05	9.67E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
66	420660.8	3734251	1.14E-04	5.21E-04	1.14E-06	1.56E-05	7.12E-05	1.69E-07	9.58E-06	3.27E-05	3.93E-08
67	420668.9	3734235	9.93E-05	4.54E-04	9.92E-07	1.36E-05	6.21E-05	1.48E-07	8.35E-06	2.85E-05	3.43E-08
68	420681.7	3734226	9.34E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.68E-05	3.23E-08
69	420699.3	3734222	9.41E-05	4.30E-04	9.41E-07	1.29E-05	5.88E-05	1.40E-07	7.92E-06	2.70E-05	3.25E-08
70	420716.9	3734219	9.45E-05	4.32E-04	9.44E-07	1.29E-05	5.91E-05	1.41E-07	7.95E-06	2.71E-05	3.26E-08
71	420734.5	3734216	9.41E-05	4.30E-04	9.41E-07	1.29E-05	5.88E-05	1.40E-07	7.92E-06	2.70E-05	3.25E-08
72	420640.7	3734301	1.90E-04	8.68E-04	1.90E-06	2.60E-05	1.19E-04	2.83E-07	1.60E-05	5.46E-05	6.56E-08
73	420640.6	3734330	2.85E-04	1.30E-03	2.85E-06	3.90E-05	1.78E-04	4.24E-07	2.39E-05	8.18E-05	9.84E-08
74	420640.5	3734340	3.31E-04	1.51E-03	3.31E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
75	420640.5	3734350	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.76E-07	3.26E-05	1.11E-04	1.34E-07
76	420650.8	3734251	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.96E-05	1.66E-07	9.36E-06	3.20E-05	3.85E-08
77	420658.9	3734235	9.71E-05	4.44E-04	9.71E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
78	420675.7	3734218	8.59E-05	3.93E-04	8.58E-07	1.18E-05	5.37E-05	1.28E-07	7.22E-06	2.47E-05	2.97E-08
79	420693.3	3734214	8.65E-05	3.96E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
80	420710.9	3734211	8.70E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.32E-06	2.50E-05	3.01E-08
81	420728.5	3734208	8.70E-05	3.98E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.32E-06	2.50E-05	3.01E-08
82	420640.8	3734251	1.09E-04	4.98E-04	1.09E-06	1.49E-05	6.81E-05	1.62E-07	9.16E-06	3.13E-05	3.76E-08
83	420648.9	3734235	9.50E-05	4.35E-04	9.50E-07	1.30E-05	5.94E-05	1.41E-07	8.00E-06	2.73E-05	3.28E-08
84	420657	3734219	8.37E-05	3.83E-04	8.37E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.41E-05	2.89E-08
85	420669.8	3734210	7.92E-05	3.62E-04	7.91E-07	1.09E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.74E-08
86	420687.4	3734206	7.98E-05	3.65E-04	7.98E-07	1.09E-05	4.99E-05	1.19E-07	6.72E-06	2.29E-05	2.76E-08
87	420705	3734203	8.04E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
88	420722.6	3734200	8.05E-05	3.68E-04	8.04E-07	1.10E-05	5.03E-05	1.20E-07	6.77E-06	2.31E-05	2.78E-08
89	420635.9	3734221	8.18E-05	3.74E-04	8.18E-07	1.12E-05	5.11E-05	1.22E-07	6.88E-06	2.35E-05	2.83E-08
90	420640.2	3734213	7.66E-05	3.50E-04	7.65E-07	1.05E-05	4.79E-05	1.14E-07	6.44E-06	2.20E-05	2.65E-08
91	420644.6	3734204	7.18E-05	3.28E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.04E-06	2.06E-05	2.48E-08
92	420658.6	3734193	6.78E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.34E-08
93	420668.2	3734192	6.82E-05	3.12E-04	6.81E-07	9.34E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.36E-08
94	420677.8	3734190	6.85E-05	3.13E-04	6.84E-07	9.39E-06	4.28E-05	1.02E-07	5.76E-06	1.97E-05	2.37E-08
95	420687.4	3734188	6.88E-05	3.15E-04	6.88E-07	9.43E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
96	420697	3734187	6.91E-05	3.16E-04	6.90E-07	9.47E-06	4.32E-05	1.03E-07	5.81E-06	1.98E-05	2.39E-08
97	420706.6	3734185	6.92E-05	3.17E-04	6.92E-07	9.49E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.39E-08
98	420716.2	3734183	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.40E-08
99	420725.8	3734181	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.40E-08
100	420735.4	3734180	6.92E-05	3.16E-04	6.91E-07	9.48E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
101	420600.7	3734291	1.50E-04	6.88E-04	1.50E-06	2.06E-05	9.40E-05	2.24E-07	1.27E-05	4.32E-05	5.20E-08
102	420600.7	3734301	1.68E-04	7.66E-04	1.68E-06	2.30E-05	1.05E-04	2.49E-07	1.41E-05	4.82E-05	5.79E-08
103	420600.6	3734311	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.47E-08
104	420600.6	3734320	2.10E-04	9.58E-04	2.09E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.02E-05	7.24E-08
105	420600.6	3734330	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
106	420600.5	3734340	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
107	420600.5	3734350	2.95E-04	1.35E-03	2.95E-06	4.05E-05	1.85E-04	4.39E-07	2.48E-05	8.48E-05	1.02E-07
108	420602.4	3734248	9.75E-05	4.46E-04	9.74E-07	1.34E-05	6.09E-05	1.45E-07	8.20E-06	2.80E-05	3.37E-08
109	420606.7	3734239	9.10E-05	4.16E-04	9.09E-07	1.25E-05	5.69E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
110	420646.6	3734177	5.87E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.94E-06	1.69E-05	2.03E-08
111	420656	3734176	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
112	420665.5	3734174	5.92E-05	2.71E-04	5.92E-07	8.12E-06	3.70E-05	8.81E-08	4.98E-06	1.70E-05	2.05E-08
113	420675	3734172	5.95E-05	2.72E-04	5.94E-07	8.15E-06	3.72E-05	8.85E-08	5.00E-06	1.71E-05	2.06E-08
114	420684.5	3734171	5.97E-05	2.73E-04	5.97E-07	8.19E-06	3.73E-05	8.89E-08	5.03E-06	1.72E-05	2.06E-08

115	420580.7	3734291	1.40E-04	6.42E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
116	420580.7	3734301	1.55E-04	7.09E-04	1.55E-06	2.13E-05	9.70E-05	2.31E-07	1.31E-05	4.46E-05	5.36E-08
117	420580.6	3734311	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
118	420580.6	3734320	1.89E-04	8.65E-04	1.89E-06	2.59E-05	1.18E-04	2.82E-07	1.59E-05	5.43E-05	6.53E-08
119	420580.6	3734330	2.09E-04	9.53E-04	2.08E-06	2.86E-05	1.30E-04	3.10E-07	1.75E-05	5.99E-05	7.21E-08
120	420580.5	3734340	2.30E-04	1.05E-03	2.29E-06	3.15E-05	1.43E-04	3.42E-07	1.93E-05	6.60E-05	7.93E-08
121	420580.5	3734350	2.52E-04	1.15E-03	2.52E-06	3.45E-05	1.57E-04	3.75E-07	2.12E-05	7.24E-05	8.70E-08
122	420582.2	3734248	9.36E-05	4.28E-04	9.35E-07	1.28E-05	5.85E-05	1.39E-07	7.87E-06	2.69E-05	3.23E-08
123	420586.5	3734240	8.76E-05	4.01E-04	8.76E-07	1.20E-05	5.48E-05	1.30E-07	7.37E-06	2.52E-05	3.03E-08
124	420590.8	3734231	8.23E-05	3.76E-04	8.22E-07	1.13E-05	5.14E-05	1.22E-07	6.92E-06	2.36E-05	2.84E-08
125	420595.1	3734223	7.71E-05	3.53E-04	7.71E-07	1.06E-05	4.82E-05	1.15E-07	6.49E-06	2.22E-05	2.66E-08
126	420599.4	3734214	7.23E-05	3.31E-04	7.23E-07	9.91E-06	4.52E-05	1.08E-07	6.09E-06	2.08E-05	2.50E-08
127	420603.7	3734206	6.80E-05	3.11E-04	6.80E-07	9.32E-06	4.25E-05	1.01E-07	5.72E-06	1.95E-05	2.35E-08
128	420608	3734197	6.40E-05	2.93E-04	6.40E-07	8.78E-06	4.00E-05	9.53E-08	5.39E-06	1.84E-05	2.21E-08
129	420700.2	3734150	5.27E-05	2.41E-04	5.27E-07	7.22E-06	3.29E-05	7.84E-08	4.43E-06	1.51E-05	1.82E-08
130	420709.6	3734148	5.28E-05	2.41E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
131	420719	3734146	5.29E-05	2.42E-04	5.29E-07	7.25E-06	3.31E-05	7.87E-08	4.45E-06	1.52E-05	1.83E-08
132	420728.4	3734145	5.29E-05	2.42E-04	5.28E-07	7.25E-06	3.30E-05	7.87E-08	4.45E-06	1.52E-05	1.83E-08
133	420737.7	3734143	5.28E-05	2.41E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
134	420756.5	3734140	5.24E-05	2.39E-04	5.23E-07	7.18E-06	3.27E-05	7.80E-08	4.41E-06	1.50E-05	1.81E-08
135	420560.7	3734291	1.29E-04	5.91E-04	1.29E-06	1.77E-05	8.08E-05	1.92E-07	1.09E-05	3.71E-05	4.47E-08
136	420560.7	3734301	1.42E-04	6.49E-04	1.42E-06	1.95E-05	8.87E-05	2.11E-07	1.19E-05	4.08E-05	4.90E-08
137	420560.6	3734310	1.55E-04	7.08E-04	1.55E-06	2.12E-05	9.68E-05	2.30E-07	1.30E-05	4.45E-05	5.35E-08
138	420560.6	3734320	1.68E-04	7.70E-04	1.68E-06	2.31E-05	1.05E-04	2.51E-07	1.42E-05	4.84E-05	5.82E-08
139	420560.6	3734330	1.83E-04	8.36E-04	1.83E-06	2.51E-05	1.14E-04	2.72E-07	1.54E-05	5.25E-05	6.32E-08
140	420560.5	3734340	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.84E-08
141	420560.5	3734350	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
142	420562	3734248	8.93E-05	4.08E-04	8.93E-07	1.22E-05	5.58E-05	1.33E-07	7.52E-06	2.57E-05	3.09E-08
143	420566.3	3734240	8.43E-05	3.85E-04	8.42E-07	1.16E-05	5.27E-05	1.25E-07	7.09E-06	2.42E-05	2.91E-08
144	420570.6	3734232	7.92E-05	3.62E-04	7.92E-07	1.09E-05	4.95E-05	1.18E-07	6.67E-06	2.28E-05	2.74E-08
145	420574.8	3734223	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.58E-08
146	420579.1	3734215	7.04E-05	3.22E-04	7.04E-07	9.66E-06	4.40E-05	1.05E-07	5.93E-06	2.02E-05	2.43E-08
147	420583.3	3734206	6.63E-05	3.03E-04	6.63E-07	9.09E-06	4.15E-05	9.87E-08	5.58E-06	1.91E-05	2.29E-08
148	420587.6	3734198	6.25E-05	2.86E-04	6.25E-07	8.57E-06	3.91E-05	9.30E-08	5.26E-06	1.80E-05	2.16E-08
149	420591.9	3734189	5.90E-05	2.70E-04	5.89E-07	8.08E-06	3.69E-05	8.78E-08	4.96E-06	1.69E-05	2.04E-08
150	420596.1	3734181	5.57E-05	2.55E-04	5.56E-07	7.63E-06	3.48E-05	8.29E-08	4.68E-06	1.60E-05	1.92E-08
151	420600.4	3734172	5.27E-05	2.41E-04	5.26E-07	7.22E-06	3.29E-05	7.84E-08	4.43E-06	1.51E-05	1.82E-08
152	420631.8	3734144	4.52E-05	2.07E-04	4.52E-07	6.20E-06	2.83E-05	6.73E-08	3.80E-06	1.30E-05	1.56E-08
153	420641.1	3734142	4.54E-05	2.07E-04	4.53E-07	6.22E-06	2.84E-05	6.75E-08	3.82E-06	1.30E-05	1.57E-08
154	420650.4	3734140	4.55E-05	2.08E-04	4.55E-07	6.24E-06	2.85E-05	6.78E-08	3.83E-06	1.31E-05	1.57E-08
155	420659.8	3734139	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
156	420669.1	3734137	4.59E-05	2.10E-04	4.59E-07	6.30E-06	2.87E-05	6.84E-08	3.86E-06	1.32E-05	1.59E-08
157	420678.4	3734135	4.61E-05	2.11E-04	4.61E-07	6.32E-06	2.88E-05	6.87E-08	3.88E-06	1.33E-05	1.59E-08
158	420687.7	3734134	4.63E-05	2.12E-04	4.63E-07	6.35E-06	2.90E-05	6.89E-08	3.90E-06	1.33E-05	1.60E-08
159	420697	3734132	4.65E-05	2.12E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
160	420706.3	3734130	4.66E-05	2.13E-04	4.66E-07	6.39E-06	2.91E-05	6.94E-08	3.92E-06	1.34E-05	1.61E-08
161	420715.7	3734129	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
162	420725	3734127	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
163	420734.3	3734125	4.67E-05	2.13E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
164	420762.2	3734120	4.62E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.88E-08	3.89E-06	1.33E-05	1.60E-08
165	420540.7	3734291	1.19E-04	5.43E-04	1.19E-06	1.63E-05	7.42E-05	1.77E-07	9.98E-06	3.41E-05	4.10E-08
166	420540.7	3734301	1.29E-04	5.88E-04	1.29E-06	1.76E-05	8.04E-05	1.91E-07	1.08E-05	3.70E-05	4.45E-08
167	420540.6	3734310	1.38E-04	6.33E-04	1.38E-06	1.90E-05	8.66E-05	2.06E-07	1.17E-05	3.98E-05	4.79E-08
168	420540.6	3734320	1.49E-04	6.80E-04	1.49E-06	2.04E-05	9.29E-05	2.21E-07	1.25E-05	4.27E-05	5.14E-08
169	420540.6	3734330	1.59E-04	7.27E-04	1.59E-06	2.18E-05	9.94E-05	2.37E-07	1.34E-05	4.57E-05	5.49E-08
170	420540.5	3734340	1.69E-04	7.74E-04	1.69E-06	2.32E-05	1.06E-04	2.52E-07	1.42E-05	4.87E-05	5.85E-08
171	420540.5	3734350	1.79E-04	8.21E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.16E-05	6.20E-08
172	420541.9	3734249	8.42E-05	3.85E-04	8.41E-07	1.15E-05	5.26E-05	1.25E-07	7.08E-06	2.42E-05	2.91E-08
173	420546.1	3734240	8.03E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.77E-08

174	420550.4	3734232	7.64E-05	3.49E-04	7.63E-07	1.05E-05	4.78E-05	1.14E-07	6.43E-06	2.19E-05	2.64E-08
175	420554.6	3734223	7.25E-05	3.31E-04	7.24E-07	9.93E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.50E-08
176	420558.9	3734215	6.85E-05	3.13E-04	6.85E-07	9.39E-06	4.28E-05	1.02E-07	5.76E-06	1.97E-05	2.37E-08
177	420563.1	3734207	6.46E-05	2.95E-04	6.46E-07	8.86E-06	4.04E-05	9.62E-08	5.44E-06	1.86E-05	2.23E-08
178	420567.3	3734198	6.10E-05	2.79E-04	6.10E-07	8.36E-06	3.81E-05	9.08E-08	5.13E-06	1.75E-05	2.11E-08
179	420571.6	3734190	5.76E-05	2.63E-04	5.76E-07	7.90E-06	3.60E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
180	420575.8	3734181	5.45E-05	2.49E-04	5.45E-07	7.47E-06	3.41E-05	8.11E-08	4.58E-06	1.57E-05	1.88E-08
181	420580	3734173	5.16E-05	2.36E-04	5.15E-07	7.07E-06	3.22E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
182	420592.8	3734148	4.40E-05	2.01E-04	4.40E-07	6.04E-06	2.75E-05	6.55E-08	3.70E-06	1.27E-05	1.52E-08
183	420597	3734139	4.19E-05	1.92E-04	4.19E-07	5.74E-06	2.62E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
184	420610.5	3734129	4.00E-05	1.83E-04	3.99E-07	5.48E-06	2.50E-05	5.95E-08	3.36E-06	1.15E-05	1.38E-08
185	420638.3	3734124	4.03E-05	1.84E-04	4.03E-07	5.52E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
186	420647.5	3734123	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
187	420656.8	3734121	4.06E-05	1.86E-04	4.06E-07	5.57E-06	2.54E-05	6.05E-08	3.42E-06	1.17E-05	1.40E-08
188	420666.1	3734119	4.08E-05	1.87E-04	4.08E-07	5.59E-06	2.55E-05	6.07E-08	3.43E-06	1.17E-05	1.41E-08
189	420675.3	3734118	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
190	420684.6	3734116	4.11E-05	1.88E-04	4.11E-07	5.64E-06	2.57E-05	6.12E-08	3.46E-06	1.18E-05	1.42E-08
191	420693.8	3734114	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
192	420703.1	3734113	4.14E-05	1.89E-04	4.14E-07	5.68E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
193	420712.4	3734111	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.59E-05	6.18E-08	3.49E-06	1.19E-05	1.43E-08
194	420721.6	3734109	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.60E-05	6.18E-08	3.49E-06	1.19E-05	1.44E-08
195	420730.9	3734108	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.60E-05	6.18E-08	3.50E-06	1.19E-05	1.44E-08
196	420758.7	3734103	4.13E-05	1.89E-04	4.12E-07	5.66E-06	2.58E-05	6.14E-08	3.47E-06	1.19E-05	1.43E-08
197	420767.9	3734101	4.11E-05	1.88E-04	4.10E-07	5.63E-06	2.57E-05	6.11E-08	3.46E-06	1.18E-05	1.42E-08
198	420520.7	3734291	1.08E-04	4.96E-04	1.08E-06	1.49E-05	6.78E-05	1.61E-07	9.12E-06	3.12E-05	3.75E-08
199	420520.7	3734300	1.16E-04	5.29E-04	1.16E-06	1.59E-05	7.23E-05	1.72E-07	9.73E-06	3.32E-05	4.00E-08
200	420520.6	3734310	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.04E-05	3.54E-05	4.25E-08
201	420520.6	3734320	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
202	420520.6	3734330	1.38E-04	6.29E-04	1.38E-06	1.89E-05	8.60E-05	2.05E-07	1.16E-05	3.95E-05	4.76E-08
203	420520.5	3734340	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
204	420520.5	3734350	1.51E-04	6.91E-04	1.51E-06	2.07E-05	9.46E-05	2.25E-07	1.27E-05	4.35E-05	5.23E-08
205	420522.9	3734247	7.97E-05	3.64E-04	7.96E-07	1.09E-05	4.98E-05	1.19E-07	6.70E-06	2.29E-05	2.75E-08
206	420527.3	3734238	7.60E-05	3.47E-04	7.59E-07	1.04E-05	4.75E-05	1.13E-07	6.39E-06	2.18E-05	2.63E-08
207	420531.7	3734229	7.24E-05	3.31E-04	7.24E-07	9.93E-06	4.53E-05	1.08E-07	6.09E-06	2.08E-05	2.50E-08
208	420536.1	3734220	6.85E-05	3.13E-04	6.85E-07	9.39E-06	4.28E-05	1.02E-07	5.77E-06	1.97E-05	2.37E-08
209	420540.6	3734211	6.48E-05	2.96E-04	6.47E-07	8.88E-06	4.05E-05	9.64E-08	5.45E-06	1.86E-05	2.24E-08
210	420545	3734203	6.12E-05	2.80E-04	6.11E-07	8.38E-06	3.82E-05	9.10E-08	5.14E-06	1.76E-05	2.11E-08
211	420549.4	3734194	5.77E-05	2.64E-04	5.77E-07	7.91E-06	3.61E-05	8.59E-08	4.86E-06	1.66E-05	1.99E-08
212	420553.9	3734185	5.45E-05	2.49E-04	5.45E-07	7.47E-06	3.41E-05	8.11E-08	4.59E-06	1.57E-05	1.88E-08
213	420558.3	3734176	5.15E-05	2.35E-04	5.15E-07	7.06E-06	3.22E-05	7.67E-08	4.33E-06	1.48E-05	1.78E-08
214	420576	3734141	4.14E-05	1.89E-04	4.14E-07	5.68E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
215	420580.4	3734132	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.85E-08	3.31E-06	1.13E-05	1.36E-08
216	420584.9	3734124	3.74E-05	1.71E-04	3.74E-07	5.13E-06	2.34E-05	5.57E-08	3.15E-06	1.08E-05	1.29E-08
217	420599	3734113	3.57E-05	1.63E-04	3.57E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.03E-05	1.23E-08
218	420608.6	3734111	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.01E-06	1.03E-05	1.23E-08
219	420637.7	3734106	3.60E-05	1.65E-04	3.60E-07	4.94E-06	2.25E-05	5.37E-08	3.03E-06	1.04E-05	1.25E-08
220	420647.4	3734105	3.62E-05	1.66E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.05E-06	1.04E-05	1.25E-08
221	420657	3734103	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.27E-05	5.41E-08	3.06E-06	1.05E-05	1.26E-08
222	420666.7	3734101	3.65E-05	1.67E-04	3.65E-07	5.01E-06	2.28E-05	5.44E-08	3.07E-06	1.05E-05	1.26E-08
223	420676.4	3734099	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
224	420686.1	3734098	3.68E-05	1.68E-04	3.68E-07	5.05E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
225	420695.7	3734096	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
226	420705.4	3734094	3.71E-05	1.70E-04	3.71E-07	5.08E-06	2.32E-05	5.52E-08	3.12E-06	1.07E-05	1.28E-08
227	420715.1	3734092	3.72E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.13E-06	1.07E-05	1.28E-08
228	420724.8	3734091	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
229	420734.4	3734089	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
230	420753.8	3734086	3.71E-05	1.69E-04	3.71E-07	5.08E-06	2.32E-05	5.52E-08	3.12E-06	1.07E-05	1.28E-08
231	420763.5	3734084	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
232	420773.2	3734082	3.68E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08

233	420500.7	3734290	9.77E-05	4.47E-04	9.77E-07	1.34E-05	6.11E-05	1.45E-07	8.22E-06	2.81E-05	3.38E-08
234	420500.7	3734300	1.03E-04	4.72E-04	1.03E-06	1.41E-05	6.45E-05	1.54E-07	8.68E-06	2.97E-05	3.57E-08
235	420500.6	3734310	1.09E-04	4.96E-04	1.09E-06	1.49E-05	6.79E-05	1.62E-07	9.13E-06	3.12E-05	3.75E-08
236	420500.6	3734320	1.14E-04	5.20E-04	1.14E-06	1.56E-05	7.11E-05	1.69E-07	9.57E-06	3.27E-05	3.93E-08
237	420500.6	3734330	1.19E-04	5.43E-04	1.19E-06	1.63E-05	7.42E-05	1.77E-07	9.99E-06	3.41E-05	4.10E-08
238	420500.5	3734340	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.54E-05	4.26E-08
239	420500.5	3734350	1.28E-04	5.83E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
240	420511.5	3734229	6.92E-05	3.16E-04	6.92E-07	9.48E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
241	420515.9	3734221	6.59E-05	3.01E-04	6.59E-07	9.04E-06	4.12E-05	9.81E-08	5.55E-06	1.89E-05	2.28E-08
242	420520.2	3734212	6.27E-05	2.86E-04	6.26E-07	8.59E-06	3.92E-05	9.33E-08	5.27E-06	1.80E-05	2.17E-08
243	420524.6	3734203	5.95E-05	2.72E-04	5.94E-07	8.15E-06	3.72E-05	8.85E-08	5.00E-06	1.71E-05	2.05E-08
244	420529	3734195	5.64E-05	2.58E-04	5.63E-07	7.73E-06	3.52E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
245	420533.4	3734186	5.34E-05	2.44E-04	5.34E-07	7.32E-06	3.34E-05	7.95E-08	4.49E-06	1.53E-05	1.84E-08
246	420537.8	3734177	5.06E-05	2.31E-04	5.05E-07	6.93E-06	3.16E-05	7.53E-08	4.25E-06	1.45E-05	1.75E-08
247	420555.4	3734142	4.08E-05	1.87E-04	4.08E-07	5.60E-06	2.55E-05	6.08E-08	3.44E-06	1.17E-05	1.41E-08
248	420559.8	3734134	3.88E-05	1.77E-04	3.88E-07	5.32E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
249	420564.2	3734125	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
250	420568.6	3734116	3.52E-05	1.61E-04	3.51E-07	4.82E-06	2.20E-05	5.23E-08	2.96E-06	1.01E-05	1.22E-08
251	420572.9	3734108	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
252	420586.9	3734097	3.20E-05	1.46E-04	3.20E-07	4.39E-06	2.00E-05	4.77E-08	2.69E-06	9.20E-06	1.11E-08
253	420596.5	3734095	3.21E-05	1.47E-04	3.20E-07	4.40E-06	2.00E-05	4.77E-08	2.70E-06	9.21E-06	1.11E-08
254	420606.1	3734094	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.23E-06	1.11E-08
255	420615.7	3734092	3.22E-05	1.47E-04	3.22E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.25E-06	1.11E-08
256	420634.9	3734089	3.24E-05	1.48E-04	3.24E-07	4.45E-06	2.03E-05	4.83E-08	2.73E-06	9.32E-06	1.12E-08
257	420644.5	3734087	3.26E-05	1.49E-04	3.26E-07	4.46E-06	2.04E-05	4.85E-08	2.74E-06	9.36E-06	1.13E-08
258	420654.1	3734085	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.40E-06	1.13E-08
259	420663.7	3734083	3.29E-05	1.50E-04	3.28E-07	4.51E-06	2.05E-05	4.89E-08	2.77E-06	9.44E-06	1.14E-08
260	420673.3	3734082	3.30E-05	1.51E-04	3.30E-07	4.53E-06	2.06E-05	4.91E-08	2.78E-06	9.49E-06	1.14E-08
261	420682.9	3734080	3.31E-05	1.52E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.79E-06	9.52E-06	1.15E-08
262	420692.5	3734078	3.33E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.56E-06	1.15E-08
263	420702.1	3734077	3.34E-05	1.53E-04	3.34E-07	4.57E-06	2.09E-05	4.97E-08	2.81E-06	9.59E-06	1.15E-08
264	420711.7	3734075	3.34E-05	1.53E-04	3.34E-07	4.59E-06	2.09E-05	4.98E-08	2.81E-06	9.61E-06	1.16E-08
265	420721.3	3734073	3.35E-05	1.53E-04	3.35E-07	4.59E-06	2.09E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
266	420730.9	3734071	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
267	420759.7	3734066	3.34E-05	1.52E-04	3.33E-07	4.57E-06	2.09E-05	4.96E-08	2.81E-06	9.58E-06	1.15E-08
268	420769.3	3734065	3.32E-05	1.52E-04	3.32E-07	4.55E-06	2.08E-05	4.95E-08	2.79E-06	9.55E-06	1.15E-08
269	420778.9	3734063	3.31E-05	1.51E-04	3.30E-07	4.53E-06	2.07E-05	4.92E-08	2.78E-06	9.50E-06	1.14E-08
270	420480.7	3734290	8.75E-05	4.00E-04	8.75E-07	1.20E-05	5.47E-05	1.30E-07	7.37E-06	2.52E-05	3.03E-08
271	420480.7	3734300	9.15E-05	4.19E-04	9.15E-07	1.25E-05	5.72E-05	1.36E-07	7.70E-06	2.63E-05	3.16E-08
272	420480.6	3734310	9.54E-05	4.36E-04	9.53E-07	1.31E-05	5.96E-05	1.42E-07	8.02E-06	2.74E-05	3.30E-08
273	420480.6	3734320	9.90E-05	4.53E-04	9.90E-07	1.36E-05	6.19E-05	1.47E-07	8.33E-06	2.84E-05	3.42E-08
274	420480.6	3734330	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.40E-05	1.52E-07	8.61E-06	2.94E-05	3.54E-08
275	420480.5	3734340	1.05E-04	4.82E-04	1.05E-06	1.44E-05	6.59E-05	1.57E-07	8.86E-06	3.03E-05	3.64E-08
276	420480.5	3734350	1.08E-04	4.94E-04	1.08E-06	1.48E-05	6.75E-05	1.61E-07	9.09E-06	3.10E-05	3.73E-08
277	420482.5	3734247	7.04E-05	3.22E-04	7.04E-07	9.65E-06	4.40E-05	1.05E-07	5.92E-06	2.02E-05	2.43E-08
278	420486.9	3734238	6.81E-05	3.11E-04	6.80E-07	9.33E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
279	420491.2	3734230	6.56E-05	3.00E-04	6.55E-07	8.99E-06	4.10E-05	9.76E-08	5.52E-06	1.88E-05	2.27E-08
280	420513.1	3734187	5.21E-05	2.38E-04	5.20E-07	7.14E-06	3.25E-05	7.75E-08	4.38E-06	1.50E-05	1.80E-08
281	420517.4	3734178	4.95E-05	2.26E-04	4.94E-07	6.78E-06	3.09E-05	7.36E-08	4.16E-06	1.42E-05	1.71E-08
282	420521.8	3734169	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
283	420534.9	3734143	4.03E-05	1.84E-04	4.03E-07	5.52E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
284	420539.2	3734135	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.40E-05	5.70E-08	3.22E-06	1.10E-05	1.32E-08
285	420543.6	3734126	3.65E-05	1.67E-04	3.64E-07	5.00E-06	2.28E-05	5.43E-08	3.07E-06	1.05E-05	1.26E-08
286	420547.9	3734117	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.98E-06	1.20E-08
287	420552.3	3734109	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.79E-06	9.52E-06	1.14E-08
288	420556.7	3734100	3.16E-05	1.45E-04	3.16E-07	4.33E-06	1.98E-05	4.71E-08	2.66E-06	9.08E-06	1.09E-08
289	420561	3734092	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
290	420574.9	3734081	2.89E-05	1.32E-04	2.89E-07	3.96E-06	1.81E-05	4.30E-08	2.43E-06	8.30E-06	9.99E-09
291	420584.5	3734079	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.43E-06	8.31E-06	1.00E-08

292	420594	3734078	2.90E-05	1.32E-04	2.90E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
293	420603.5	3734076	2.90E-05	1.33E-04	2.90E-07	3.98E-06	1.82E-05	4.32E-08	2.44E-06	8.34E-06	1.00E-08
294	420613	3734074	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.37E-06	1.01E-08
295	420632.1	3734071	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
296	420641.6	3734069	2.95E-05	1.35E-04	2.94E-07	4.04E-06	1.84E-05	4.38E-08	2.48E-06	8.46E-06	1.02E-08
297	420651.2	3734068	2.96E-05	1.35E-04	2.96E-07	4.06E-06	1.85E-05	4.40E-08	2.49E-06	8.50E-06	1.02E-08
298	420660.7	3734066	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.54E-06	1.03E-08
299	420670.2	3734064	2.98E-05	1.36E-04	2.98E-07	4.09E-06	1.87E-05	4.44E-08	2.51E-06	8.58E-06	1.03E-08
300	420679.8	3734062	3.00E-05	1.37E-04	2.99E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.61E-06	1.04E-08
301	420689.3	3734061	3.01E-05	1.37E-04	3.01E-07	4.12E-06	1.88E-05	4.48E-08	2.53E-06	8.64E-06	1.04E-08
302	420698.8	3734059	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.49E-08	2.54E-06	8.67E-06	1.04E-08
303	420708.4	3734057	3.02E-05	1.38E-04	3.02E-07	4.15E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
304	420717.9	3734056	3.03E-05	1.39E-04	3.03E-07	4.15E-06	1.89E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
305	420727.4	3734054	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
306	420736.9	3734052	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
307	420756	3734049	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
308	420765.5	3734047	3.01E-05	1.38E-04	3.01E-07	4.13E-06	1.88E-05	4.49E-08	2.53E-06	8.66E-06	1.04E-08
309	420775.1	3734045	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.88E-05	4.47E-08	2.53E-06	8.63E-06	1.04E-08
310	420784.6	3734044	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
311	420460.7	3734290	7.81E-05	3.57E-04	7.81E-07	1.07E-05	4.88E-05	1.16E-07	6.57E-06	2.24E-05	2.70E-08
312	420460.7	3734300	8.10E-05	3.70E-04	8.10E-07	1.11E-05	5.06E-05	1.21E-07	6.81E-06	2.33E-05	2.80E-08
313	420460.6	3734310	8.37E-05	3.83E-04	8.36E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.40E-05	2.89E-08
314	420460.6	3734320	8.61E-05	3.94E-04	8.61E-07	1.18E-05	5.39E-05	1.28E-07	7.25E-06	2.48E-05	2.98E-08
315	420460.6	3734330	8.83E-05	4.04E-04	8.83E-07	1.21E-05	5.52E-05	1.32E-07	7.43E-06	2.54E-05	3.05E-08
316	420460.5	3734340	9.03E-05	4.13E-04	9.02E-07	1.24E-05	5.64E-05	1.34E-07	7.59E-06	2.59E-05	3.12E-08
317	420460.5	3734349	9.19E-05	4.20E-04	9.18E-07	1.26E-05	5.74E-05	1.37E-07	7.73E-06	2.64E-05	3.17E-08
318	420462.4	3734247	6.51E-05	2.98E-04	6.51E-07	8.93E-06	4.07E-05	9.69E-08	5.48E-06	1.87E-05	2.25E-08
319	420466.7	3734239	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
320	420471.1	3734230	6.16E-05	2.82E-04	6.15E-07	8.44E-06	3.85E-05	9.17E-08	5.18E-06	1.77E-05	2.13E-08
321	420475.4	3734221	5.95E-05	2.72E-04	5.95E-07	8.16E-06	3.72E-05	8.86E-08	5.01E-06	1.71E-05	2.06E-08
322	420479.7	3734213	5.73E-05	2.62E-04	5.73E-07	7.86E-06	3.58E-05	8.53E-08	4.82E-06	1.65E-05	1.98E-08
323	420484.1	3734204	5.50E-05	2.52E-04	5.50E-07	7.55E-06	3.44E-05	8.19E-08	4.63E-06	1.58E-05	1.90E-08
324	420488.4	3734196	5.27E-05	2.41E-04	5.27E-07	7.23E-06	3.30E-05	7.85E-08	4.44E-06	1.52E-05	1.82E-08
325	420492.7	3734187	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.51E-08	4.24E-06	1.45E-05	1.74E-08
326	420514.4	3734144	3.97E-05	1.81E-04	3.97E-07	5.44E-06	2.48E-05	5.91E-08	3.34E-06	1.14E-05	1.37E-08
327	420518.8	3734136	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
328	420523.1	3734127	3.60E-05	1.65E-04	3.60E-07	4.94E-06	2.25E-05	5.36E-08	3.03E-06	1.03E-05	1.24E-08
329	420527.4	3734118	3.43E-05	1.57E-04	3.43E-07	4.70E-06	2.15E-05	5.11E-08	2.89E-06	9.86E-06	1.19E-08
330	420531.8	3734110	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.41E-06	1.13E-08
331	420536.1	3734101	3.13E-05	1.43E-04	3.12E-07	4.28E-06	1.95E-05	4.65E-08	2.63E-06	8.98E-06	1.08E-08
332	420540.4	3734093	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
333	420544.8	3734084	2.86E-05	1.31E-04	2.85E-07	3.92E-06	1.79E-05	4.25E-08	2.40E-06	8.21E-06	9.87E-09
334	420549.1	3734075	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
335	420562.9	3734065	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.20E-06	7.53E-06	9.05E-09
336	420572.4	3734063	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.21E-06	7.53E-06	9.06E-09
337	420581.9	3734062	2.63E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.54E-06	9.07E-09
338	420591.3	3734060	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.64E-05	3.92E-08	2.21E-06	7.56E-06	9.09E-09
339	420600.8	3734058	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.58E-06	9.11E-09
340	420638.7	3734052	2.68E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.25E-09
341	420648.2	3734050	2.69E-05	1.23E-04	2.69E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.72E-06	9.29E-09
342	420657.7	3734048	2.70E-05	1.23E-04	2.70E-07	3.70E-06	1.69E-05	4.02E-08	2.27E-06	7.76E-06	9.33E-09
343	420667.1	3734046	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.69E-05	4.03E-08	2.28E-06	7.79E-06	9.37E-09
344	420676.6	3734045	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
345	420686.1	3734043	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.85E-06	9.44E-09
346	420695.6	3734041	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.71E-05	4.08E-08	2.30E-06	7.87E-06	9.47E-09
347	420705	3734040	2.75E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
348	420714.5	3734038	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.10E-08	2.32E-06	7.91E-06	9.51E-09
349	420724	3734036	2.75E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.91E-06	9.52E-09
350	420733.5	3734035	2.76E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.92E-06	9.52E-09

351	420752.4	3734031	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.09E-08	2.31E-06	7.90E-06	9.50E-09
352	420761.9	3734030	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.72E-05	4.08E-08	2.31E-06	7.88E-06	9.48E-09
353	420771.4	3734028	2.74E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
354	420780.8	3734026	2.72E-05	1.25E-04	2.72E-07	3.73E-06	1.70E-05	4.06E-08	2.29E-06	7.83E-06	9.41E-09
355	420790.3	3734024	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.79E-06	9.37E-09
356	420442.3	3734247	5.99E-05	2.74E-04	5.98E-07	8.21E-06	3.74E-05	8.91E-08	5.04E-06	1.72E-05	2.07E-08
357	420446.6	3734239	5.87E-05	2.69E-04	5.87E-07	8.05E-06	3.67E-05	8.74E-08	4.94E-06	1.69E-05	2.03E-08
358	420450.9	3734230	5.74E-05	2.62E-04	5.74E-07	7.87E-06	3.59E-05	8.54E-08	4.83E-06	1.65E-05	1.98E-08
359	420455.2	3734222	5.59E-05	2.55E-04	5.58E-07	7.66E-06	3.49E-05	8.32E-08	4.70E-06	1.61E-05	1.93E-08
360	420459.5	3734213	5.42E-05	2.48E-04	5.41E-07	7.43E-06	3.39E-05	8.06E-08	4.56E-06	1.56E-05	1.87E-08
361	420463.9	3734205	5.24E-05	2.39E-04	5.23E-07	7.18E-06	3.27E-05	7.80E-08	4.41E-06	1.50E-05	1.81E-08
362	420468.2	3734196	5.05E-05	2.31E-04	5.05E-07	6.92E-06	3.16E-05	7.51E-08	4.25E-06	1.45E-05	1.74E-08
363	420472.5	3734188	4.85E-05	2.22E-04	4.85E-07	6.65E-06	3.03E-05	7.22E-08	4.08E-06	1.39E-05	1.68E-08
364	420476.8	3734179	4.66E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
365	420481.1	3734170	4.46E-05	2.04E-04	4.46E-07	6.11E-06	2.79E-05	6.64E-08	3.75E-06	1.28E-05	1.54E-08
366	420511.3	3734111	3.24E-05	1.48E-04	3.23E-07	4.44E-06	2.02E-05	4.82E-08	2.72E-06	9.30E-06	1.12E-08
367	420515.6	3734102	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
368	420519.9	3734094	2.96E-05	1.35E-04	2.95E-07	4.05E-06	1.85E-05	4.40E-08	2.49E-06	8.49E-06	1.02E-08
369	420524.2	3734085	2.83E-05	1.29E-04	2.83E-07	3.88E-06	1.77E-05	4.21E-08	2.38E-06	8.13E-06	9.77E-09
370	420528.6	3734076	2.71E-05	1.24E-04	2.71E-07	3.71E-06	1.69E-05	4.03E-08	2.28E-06	7.78E-06	9.36E-09
371	420532.9	3734068	2.59E-05	1.19E-04	2.59E-07	3.56E-06	1.62E-05	3.86E-08	2.18E-06	7.46E-06	8.97E-09
372	420537.2	3734059	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
373	420579.2	3734044	2.39E-05	1.09E-04	2.39E-07	3.28E-06	1.50E-05	3.56E-08	2.01E-06	6.88E-06	8.27E-09
374	420588.6	3734042	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.57E-08	2.02E-06	6.89E-06	8.29E-09
375	420598.1	3734041	2.41E-05	1.10E-04	2.40E-07	3.30E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.31E-09
376	420607.5	3734039	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
377	420635.8	3734034	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.63E-08	2.05E-06	7.01E-06	8.43E-09
378	420645.2	3734032	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.04E-06	8.47E-09
379	420654.6	3734031	2.46E-05	1.13E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.51E-09
380	420664	3734029	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
381	420673.5	3734027	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.57E-09
382	420682.9	3734026	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
383	420692.3	3734024	2.50E-05	1.14E-04	2.50E-07	3.42E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.63E-09
384	420701.7	3734022	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.57E-05	3.73E-08	2.11E-06	7.19E-06	8.65E-09
385	420711.2	3734020	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
386	420720.6	3734019	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.68E-09
387	420730	3734017	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.12E-06	7.23E-06	8.69E-09
388	420758.3	3734012	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
389	420767.7	3734010	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.19E-06	8.65E-09
390	420777.1	3734009	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
391	420786.6	3734007	2.48E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.58E-09
392	420796	3734005	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.11E-06	8.54E-09
393	420420.7	3734290	6.18E-05	2.83E-04	6.18E-07	8.48E-06	3.87E-05	9.21E-08	5.20E-06	1.78E-05	2.14E-08
394	420420.7	3734300	6.32E-05	2.89E-04	6.32E-07	8.67E-06	3.95E-05	9.41E-08	5.32E-06	1.82E-05	2.19E-08
395	420420.6	3734310	6.45E-05	2.95E-04	6.44E-07	8.84E-06	4.03E-05	9.60E-08	5.42E-06	1.85E-05	2.23E-08
396	420420.6	3734320	6.55E-05	3.00E-04	6.55E-07	8.98E-06	4.10E-05	9.75E-08	5.51E-06	1.88E-05	2.26E-08
397	420420.6	3734330	6.64E-05	3.03E-04	6.63E-07	9.10E-06	4.15E-05	9.88E-08	5.58E-06	1.91E-05	2.29E-08
398	420420.5	3734339	6.71E-05	3.07E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
399	420420.5	3734349	6.76E-05	3.09E-04	6.75E-07	9.26E-06	4.22E-05	1.01E-07	5.68E-06	1.94E-05	2.33E-08
400	420398.4	3734255	5.01E-05	2.29E-04	5.00E-07	6.86E-06	3.13E-05	7.45E-08	4.21E-06	1.44E-05	1.73E-08
401	420402.8	3734246	4.99E-05	2.28E-04	4.98E-07	6.84E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
402	420407.2	3734237	4.95E-05	2.26E-04	4.94E-07	6.78E-06	3.09E-05	7.36E-08	4.16E-06	1.42E-05	1.71E-08
403	420411.6	3734229	4.89E-05	2.23E-04	4.88E-07	6.70E-06	3.06E-05	7.28E-08	4.11E-06	1.40E-05	1.69E-08
404	420416	3734220	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.16E-08	4.05E-06	1.38E-05	1.66E-08
405	420420.5	3734211	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.02E-08	3.97E-06	1.36E-05	1.63E-08
406	420424.9	3734202	4.61E-05	2.11E-04	4.61E-07	6.32E-06	2.88E-05	6.86E-08	3.88E-06	1.32E-05	1.59E-08
407	420429.3	3734194	4.49E-05	2.05E-04	4.49E-07	6.16E-06	2.81E-05	6.68E-08	3.78E-06	1.29E-05	1.55E-08
408	420433.7	3734185	4.36E-05	1.99E-04	4.36E-07	5.98E-06	2.73E-05	6.49E-08	3.67E-06	1.25E-05	1.51E-08
409	420438.1	3734176	4.22E-05	1.93E-04	4.22E-07	5.79E-06	2.64E-05	6.28E-08	3.55E-06	1.21E-05	1.46E-08

410	420442.5	3734167	4.07E-05	1.86E-04	4.07E-07	5.58E-06	2.55E-05	6.06E-08	3.43E-06	1.17E-05	1.41E-08
411	420455.8	3734141	3.62E-05	1.66E-04	3.62E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
412	420460.2	3734132	3.48E-05	1.59E-04	3.48E-07	4.77E-06	2.17E-05	5.18E-08	2.93E-06	9.99E-06	1.20E-08
413	420464.6	3734124	3.33E-05	1.52E-04	3.33E-07	4.57E-06	2.08E-05	4.96E-08	2.80E-06	9.58E-06	1.15E-08
414	420469	3734115	3.19E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.75E-08	2.69E-06	9.17E-06	1.10E-08
415	420473.4	3734106	3.06E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
416	420477.9	3734097	2.93E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
417	420482.3	3734089	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.05E-06	9.68E-09
418	420486.7	3734080	2.68E-05	1.23E-04	2.68E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.71E-06	9.27E-09
419	420491.1	3734071	2.57E-05	1.18E-04	2.57E-07	3.52E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
420	420508.8	3734036	2.18E-05	9.96E-05	2.18E-07	2.99E-06	1.36E-05	3.24E-08	1.83E-06	6.26E-06	7.53E-09
421	420513.2	3734027	2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
422	420527.3	3734017	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
423	420536.9	3734015	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
424	420546.5	3734014	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
425	420556.2	3734012	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
426	420565.8	3734010	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.95E-09
427	420575.5	3734008	2.02E-05	9.22E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.70E-06	5.79E-06	6.97E-09
428	420585.1	3734007	2.02E-05	9.24E-05	2.02E-07	2.77E-06	1.26E-05	3.01E-08	1.70E-06	5.81E-06	6.98E-09
429	420594.8	3734005	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
430	420604.4	3734003	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.03E-09
431	420614.1	3734001	2.04E-05	9.33E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.05E-09
432	420633.4	3733998	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
433	420643	3733996	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.14E-09
434	420652.7	3733995	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
435	420662.3	3733993	2.08E-05	9.52E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.20E-09
436	420672	3733991	2.09E-05	9.56E-05	2.09E-07	2.87E-06	1.31E-05	3.11E-08	1.76E-06	6.01E-06	7.22E-09
437	420681.6	3733989	2.10E-05	9.59E-05	2.10E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.03E-06	7.25E-09
438	420691.3	3733988	2.10E-05	9.62E-05	2.10E-07	2.88E-06	1.32E-05	3.13E-08	1.77E-06	6.04E-06	7.27E-09
439	420700.9	3733986	2.11E-05	9.64E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.77E-06	6.06E-06	7.29E-09
440	420710.6	3733984	2.11E-05	9.66E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.07E-06	7.30E-09
441	420720.2	3733982	2.12E-05	9.68E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
442	420729.9	3733981	2.12E-05	9.69E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.09E-06	7.32E-09
443	420758.8	3733976	2.12E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
444	420768.5	3733974	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.07E-06	7.30E-09
445	420778.1	3733972	2.11E-05	9.63E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.28E-09
446	420787.8	3733970	2.10E-05	9.60E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
447	420797.4	3733969	2.09E-05	9.56E-05	2.09E-07	2.87E-06	1.31E-05	3.11E-08	1.76E-06	6.01E-06	7.23E-09
448	420807.1	3733967	2.08E-05	9.52E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
449	420380.7	3734290	4.89E-05	2.24E-04	4.89E-07	6.71E-06	3.06E-05	7.28E-08	4.12E-06	1.41E-05	1.69E-08
450	420380.7	3734300	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.10E-05	7.37E-08	4.17E-06	1.42E-05	1.71E-08
451	420380.6	3734310	5.00E-05	2.29E-04	5.00E-07	6.86E-06	3.13E-05	7.45E-08	4.21E-06	1.44E-05	1.73E-08
452	420380.6	3734320	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.50E-08	4.24E-06	1.45E-05	1.74E-08
453	420380.6	3734329	5.07E-05	2.32E-04	5.07E-07	6.95E-06	3.17E-05	7.55E-08	4.26E-06	1.46E-05	1.75E-08
454	420380.5	3734339	5.08E-05	2.32E-04	5.08E-07	6.97E-06	3.18E-05	7.57E-08	4.28E-06	1.46E-05	1.76E-08
455	420380.5	3734349	5.09E-05	2.33E-04	5.09E-07	6.98E-06	3.18E-05	7.58E-08	4.28E-06	1.46E-05	1.76E-08
456	420358.2	3734255	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
457	420362.6	3734247	4.12E-05	1.88E-04	4.12E-07	5.65E-06	2.58E-05	6.13E-08	3.47E-06	1.18E-05	1.42E-08
458	420366.9	3734238	4.13E-05	1.89E-04	4.12E-07	5.66E-06	2.58E-05	6.14E-08	3.47E-06	1.19E-05	1.43E-08
459	420388.8	3734195	3.95E-05	1.81E-04	3.95E-07	5.42E-06	2.47E-05	5.89E-08	3.33E-06	1.14E-05	1.37E-08
460	420393.2	3734186	3.88E-05	1.78E-04	3.88E-07	5.32E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
461	420397.5	3734177	3.80E-05	1.74E-04	3.80E-07	5.21E-06	2.38E-05	5.66E-08	3.20E-06	1.09E-05	1.31E-08
462	420401.9	3734169	3.71E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.12E-06	1.07E-05	1.28E-08
463	420415	3734143	3.40E-05	1.56E-04	3.40E-07	4.66E-06	2.13E-05	5.06E-08	2.86E-06	9.78E-06	1.18E-08
464	420419.4	3734134	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.45E-06	1.14E-08
465	420423.8	3734125	3.18E-05	1.45E-04	3.18E-07	4.36E-06	1.99E-05	4.73E-08	2.67E-06	9.13E-06	1.10E-08
466	420428.1	3734117	3.06E-05	1.40E-04	3.06E-07	4.20E-06	1.92E-05	4.56E-08	2.58E-06	8.81E-06	1.06E-08
467	420432.5	3734108	2.95E-05	1.35E-04	2.95E-07	4.05E-06	1.85E-05	4.40E-08	2.48E-06	8.48E-06	1.02E-08
468	420436.9	3734099	2.84E-05	1.30E-04	2.84E-07	3.89E-06	1.78E-05	4.23E-08	2.39E-06	8.16E-06	9.82E-09

469	420441.3	3734091	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.44E-09
470	420445.6	3734082	2.63E-05	1.20E-04	2.63E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
471	420450	3734073	2.53E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.76E-08	2.12E-06	7.26E-06	8.73E-09
472	420454.4	3734065	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.61E-08	2.04E-06	6.97E-06	8.39E-09
473	420467.5	3734039	2.16E-05	9.85E-05	2.15E-07	2.95E-06	1.35E-05	3.21E-08	1.81E-06	6.19E-06	7.45E-09
474	420471.9	3734030	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
475	420476.2	3734021	2.00E-05	9.12E-05	1.99E-07	2.74E-06	1.25E-05	2.97E-08	1.68E-06	5.73E-06	6.90E-09
476	420480.6	3734013	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
477	420485	3734004	1.85E-05	8.47E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.32E-06	6.40E-09
478	420489.3	3733995	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
479	420512.8	3733983	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
480	420522.4	3733982	1.72E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.93E-09
481	420531.9	3733980	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
482	420541.5	3733978	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
483	420551	3733976	1.72E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.93E-09
484	420560.6	3733975	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
485	420570.1	3733973	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.94E-06	5.95E-09
486	420579.7	3733971	1.72E-05	7.89E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.96E-09
487	420589.2	3733970	1.73E-05	7.91E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.46E-06	4.97E-06	5.98E-09
488	420598.8	3733968	1.74E-05	7.93E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.99E-06	6.00E-09
489	420608.3	3733966	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.02E-09
490	420637	3733961	1.76E-05	8.05E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
491	420646.5	3733959	1.77E-05	8.09E-05	1.77E-07	2.42E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
492	420656.1	3733958	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.13E-09
493	420665.6	3733956	1.78E-05	8.14E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
494	420675.2	3733954	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.14E-06	6.18E-09
495	420684.7	3733952	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.20E-09
496	420694.3	3733951	1.80E-05	8.22E-05	1.80E-07	2.47E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
497	420703.8	3733949	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.23E-09
498	420340.7	3734290	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
499	420340.7	3734300	3.91E-05	1.79E-04	3.91E-07	5.36E-06	2.45E-05	5.83E-08	3.29E-06	1.12E-05	1.35E-08
500	420340.6	3734310	3.93E-05	1.80E-04	3.93E-07	5.38E-06	2.46E-05	5.85E-08	3.30E-06	1.13E-05	1.36E-08
501	420340.6	3734319	3.94E-05	1.80E-04	3.93E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
502	420340.6	3734329	3.94E-05	1.80E-04	3.94E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
503	420340.5	3734339	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
504	420340.5	3734349	3.92E-05	1.79E-04	3.92E-07	5.38E-06	2.45E-05	5.84E-08	3.30E-06	1.13E-05	1.36E-08
505	420340.4	3734369	3.89E-05	1.78E-04	3.89E-07	5.34E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
506	420318.1	3734255	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.64E-06	1.16E-08
507	420322.4	3734247	3.39E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.85E-06	9.75E-06	1.17E-08
508	420326.7	3734238	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
509	420331.1	3734230	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.90E-06	9.89E-06	1.19E-08
510	420335.4	3734221	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.14E-08	2.91E-06	9.92E-06	1.19E-08
511	420339.7	3734212	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.14E-08	2.91E-06	9.92E-06	1.19E-08
512	420344.1	3734204	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.13E-08	2.90E-06	9.90E-06	1.19E-08
513	420348.4	3734195	3.42E-05	1.57E-04	3.42E-07	4.69E-06	2.14E-05	5.10E-08	2.88E-06	9.84E-06	1.18E-08
514	420352.7	3734187	3.40E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.76E-06	1.17E-08
515	420357.1	3734178	3.36E-05	1.53E-04	3.36E-07	4.60E-06	2.10E-05	5.00E-08	2.82E-06	9.65E-06	1.16E-08
516	420361.4	3734169	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.78E-06	9.51E-06	1.14E-08
517	420387.4	3734118	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.43E-06	8.28E-06	9.96E-09
518	420391.8	3734109	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.35E-06	8.04E-06	9.67E-09
519	420396.1	3734101	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.80E-06	9.38E-09
520	420400.4	3734092	2.63E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
521	420404.8	3734083	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.78E-09
522	420409.1	3734075	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
523	420413.4	3734066	2.37E-05	1.08E-04	2.37E-07	3.25E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.18E-09
524	420426.5	3734040	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.79E-06	6.10E-06	7.33E-09
525	420430.8	3734032	2.05E-05	9.36E-05	2.05E-07	2.81E-06	1.28E-05	3.05E-08	1.72E-06	5.88E-06	7.07E-09
526	420435.1	3734023	1.97E-05	9.02E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.82E-09
527	420439.5	3734015	1.90E-05	8.70E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.57E-09

528	420443.8	3734006	1.83E-05	8.39E-05	1.83E-07	2.52E-06	1.15E-05	2.73E-08	1.54E-06	5.27E-06	6.34E-09
529	420448.1	3733998	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
530	420452.5	3733989	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
531	420456.8	3733980	1.65E-05	7.55E-05	1.65E-07	2.26E-06	1.03E-05	2.46E-08	1.39E-06	4.74E-06	5.70E-09
532	420461.1	3733972	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
533	420465.5	3733963	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.29E-08	1.30E-06	4.43E-06	5.33E-09
534	420479.3	3733953	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
535	420488.8	3733951	1.49E-05	6.79E-05	1.48E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
536	420630.9	3733926	1.52E-05	6.96E-05	1.52E-07	2.09E-06	9.51E-06	2.27E-08	1.28E-06	4.37E-06	5.26E-09
537	420640.3	3733924	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.29E-06	4.39E-06	5.28E-09
538	420649.8	3733922	1.53E-05	7.01E-05	1.53E-07	2.10E-06	9.59E-06	2.28E-08	1.29E-06	4.41E-06	5.30E-09
539	420659.3	3733921	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.42E-06	5.32E-09
540	420668.8	3733919	1.55E-05	7.07E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
541	420678.2	3733917	1.55E-05	7.09E-05	1.55E-07	2.13E-06	9.70E-06	2.31E-08	1.30E-06	4.46E-06	5.36E-09
542	420687.7	3733916	1.55E-05	7.11E-05	1.55E-07	2.13E-06	9.72E-06	2.31E-08	1.31E-06	4.47E-06	5.37E-09
543	420697.2	3733914	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
544	420706.7	3733912	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.77E-06	2.33E-08	1.31E-06	4.49E-06	5.40E-09
545	420716.1	3733910	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
546	420725.6	3733909	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
547	420735.1	3733907	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
548	420744.6	3733905	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
549	420754	3733904	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
550	420763.5	3733902	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
551	420773	3733900	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
552	420782.5	3733899	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.77E-06	2.33E-08	1.31E-06	4.49E-06	5.40E-09
553	420791.9	3733897	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
554	420801.4	3733895	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.73E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
555	420810.9	3733894	1.55E-05	7.10E-05	1.55E-07	2.13E-06	9.70E-06	2.31E-08	1.31E-06	4.46E-06	5.36E-09
556	420820.4	3733892	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.67E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
557	420829.8	3733890	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.43E-06	5.32E-09
558	420300.5	3734339	3.11E-05	1.42E-04	3.10E-07	4.26E-06	1.94E-05	4.62E-08	2.61E-06	8.92E-06	1.07E-08
559	420300.5	3734349	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
560	420300.4	3734369	3.06E-05	1.40E-04	3.06E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.79E-06	1.06E-08
561	420278.4	3734255	2.76E-05	1.26E-04	2.76E-07	3.78E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
562	420282.8	3734246	2.80E-05	1.28E-04	2.80E-07	3.85E-06	1.75E-05	4.18E-08	2.36E-06	8.06E-06	9.69E-09
563	420287.2	3734237	2.84E-05	1.30E-04	2.84E-07	3.90E-06	1.78E-05	4.23E-08	2.39E-06	8.17E-06	9.83E-09
564	420291.6	3734228	2.88E-05	1.31E-04	2.87E-07	3.94E-06	1.80E-05	4.28E-08	2.42E-06	8.26E-06	9.94E-09
565	420296	3734220	2.90E-05	1.33E-04	2.90E-07	3.98E-06	1.81E-05	4.32E-08	2.44E-06	8.34E-06	1.00E-08
566	420300.4	3734211	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.83E-05	4.35E-08	2.46E-06	8.39E-06	1.01E-08
567	420304.8	3734202	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.36E-08	2.46E-06	8.42E-06	1.01E-08
568	420309.2	3734193	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.36E-08	2.47E-06	8.43E-06	1.01E-08
569	420313.6	3734185	2.93E-05	1.34E-04	2.93E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
570	420318	3734176	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.34E-08	2.45E-06	8.37E-06	1.01E-08
571	420335.7	3734141	2.79E-05	1.27E-04	2.79E-07	3.82E-06	1.74E-05	4.15E-08	2.35E-06	8.01E-06	9.64E-09
572	420340.1	3734132	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.71E-05	4.08E-08	2.31E-06	7.88E-06	9.47E-09
573	420344.5	3734123	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.29E-09
574	420348.9	3734115	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.21E-06	7.56E-06	9.10E-09
575	420353.3	3734106	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
576	420357.7	3734097	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
577	420362.1	3734089	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.64E-08	2.06E-06	7.02E-06	8.44E-09
578	420366.5	3734080	2.38E-05	1.09E-04	2.37E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
579	420388.6	3734036	2.03E-05	9.26E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.70E-06	5.82E-06	7.00E-09
580	420393	3734027	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.77E-09
581	420397.4	3734019	1.89E-05	8.65E-05	1.89E-07	2.59E-06	1.18E-05	2.82E-08	1.59E-06	5.44E-06	6.54E-09
582	420401.8	3734010	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
583	420406.2	3734001	1.76E-05	8.07E-05	1.76E-07	2.42E-06	1.10E-05	2.63E-08	1.48E-06	5.07E-06	6.10E-09
584	420410.6	3733992	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
585	420415	3733984	1.65E-05	7.52E-05	1.64E-07	2.26E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.69E-09
586	420419.5	3733975	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.49E-09

587	420423.9	3733966	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
588	420428.3	3733957	1.49E-05	6.79E-05	1.49E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
589	420455.6	3733921	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.13E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
590	420465.2	3733919	1.30E-05	5.93E-05	1.30E-07	1.78E-06	8.11E-06	1.93E-08	1.09E-06	3.73E-06	4.48E-09
591	420474.8	3733917	1.29E-05	5.92E-05	1.29E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
592	420484.5	3733916	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.47E-09
593	420494.1	3733914	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
594	420503.7	3733912	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
595	420513.4	3733910	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
596	420523	3733909	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
597	420532.6	3733907	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
598	420542.3	3733905	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.09E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
599	420551.9	3733904	1.30E-05	5.92E-05	1.30E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.48E-09
600	420561.5	3733902	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
601	420571.2	3733900	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
602	420580.8	3733898	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.75E-06	4.52E-09
603	420590.4	3733897	1.31E-05	6.00E-05	1.31E-07	1.80E-06	8.20E-06	1.95E-08	1.10E-06	3.77E-06	4.53E-09
604	420600.1	3733895	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
605	420638.6	3733888	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
606	420648.3	3733886	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.39E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
607	420657.9	3733885	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
608	420667.5	3733883	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
609	420677.2	3733881	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
610	420686.8	3733879	1.36E-05	6.22E-05	1.36E-07	1.86E-06	8.51E-06	2.03E-08	1.14E-06	3.91E-06	4.70E-09
611	420696.4	3733878	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
612	420706.1	3733876	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.72E-09
613	420715.7	3733874	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.94E-06	4.73E-09
614	420725.3	3733872	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.57E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
615	420735	3733871	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
616	420744.6	3733869	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
617	420754.2	3733867	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
618	420763.9	3733866	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
619	420773.5	3733864	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
620	420783.2	3733862	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
621	420792.8	3733860	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.94E-06	4.73E-09
622	420802.4	3733859	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
623	420812.1	3733857	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
624	420821.7	3733855	1.36E-05	6.22E-05	1.36E-07	1.86E-06	8.51E-06	2.03E-08	1.14E-06	3.91E-06	4.70E-09
625	420831.3	3733854	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
626	420841	3733852	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.44E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
627	420260.7	3734290	2.54E-05	1.16E-04	2.54E-07	3.49E-06	1.59E-05	3.79E-08	2.14E-06	7.31E-06	8.79E-09
628	420260.7	3734299	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.78E-09
629	420260.6	3734309	2.53E-05	1.16E-04	2.53E-07	3.47E-06	1.58E-05	3.77E-08	2.13E-06	7.28E-06	8.75E-09
630	420260.6	3734319	2.52E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.75E-08	2.12E-06	7.25E-06	8.72E-09
631	420260.6	3734329	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.74E-08	2.11E-06	7.21E-06	8.68E-09
632	420260.5	3734339	2.50E-05	1.14E-04	2.50E-07	3.42E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.63E-09
633	420260.5	3734349	2.48E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.59E-09
634	420260.4	3734368	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
635	420238.2	3734255	2.29E-05	1.05E-04	2.29E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
636	420242.6	3734246	2.33E-05	1.06E-04	2.33E-07	3.19E-06	1.46E-05	3.47E-08	1.96E-06	6.69E-06	8.05E-09
637	420247	3734237	2.37E-05	1.08E-04	2.37E-07	3.25E-06	1.48E-05	3.53E-08	1.99E-06	6.81E-06	8.18E-09
638	420264.5	3734203	2.49E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.59E-09
639	420268.9	3734194	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.73E-08	2.11E-06	7.19E-06	8.65E-09
640	420273.2	3734185	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.12E-06	7.23E-06	8.69E-09
641	420277.6	3734177	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.58E-05	3.75E-08	2.12E-06	7.24E-06	8.71E-09
642	420295.1	3734142	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
643	420299.5	3734133	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.06E-06	8.49E-09
644	420303.9	3734125	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.62E-08	2.04E-06	6.98E-06	8.40E-09
645	420308.2	3734116	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.57E-08	2.02E-06	6.89E-06	8.28E-09

646	420312.6	3734107	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
647	420317	3734099	2.32E-05	1.06E-04	2.32E-07	3.18E-06	1.45E-05	3.45E-08	1.95E-06	6.66E-06	8.02E-09
648	420321.4	3734090	2.28E-05	1.04E-04	2.28E-07	3.12E-06	1.42E-05	3.39E-08	1.91E-06	6.54E-06	7.87E-09
649	420325.7	3734081	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.71E-09
650	420330.1	3734073	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.83E-06	6.27E-06	7.53E-09
651	420334.5	3734064	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.11E-06	7.35E-09
652	420338.9	3734055	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
653	420347.6	3734038	1.96E-05	8.97E-05	1.96E-07	2.69E-06	1.23E-05	2.92E-08	1.65E-06	5.64E-06	6.78E-09
654	420352	3734029	1.91E-05	8.71E-05	1.90E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
655	420356.4	3734020	1.85E-05	8.45E-05	1.85E-07	2.53E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
656	420360.8	3734012	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.19E-09
657	420365.1	3734003	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
658	420387	3733960	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
659	420391.4	3733951	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
660	420404.5	3733925	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
661	420408.9	3733916	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
662	420413.3	3733908	1.22E-05	5.60E-05	1.22E-07	1.68E-06	7.65E-06	1.82E-08	1.03E-06	3.52E-06	4.23E-09
663	420417.6	3733899	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.41E-06	4.11E-09
664	420431.6	3733889	1.15E-05	5.26E-05	1.15E-07	1.58E-06	7.19E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
665	420441.1	3733887	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
666	420450.7	3733885	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.15E-06	1.70E-08	9.62E-07	3.29E-06	3.95E-09
667	420460.3	3733884	1.14E-05	5.22E-05	1.14E-07	1.56E-06	7.14E-06	1.70E-08	9.60E-07	3.28E-06	3.94E-09
668	420469.8	3733882	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.70E-08	9.59E-07	3.27E-06	3.94E-09
669	420479.4	3733880	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
670	420489	3733878	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
671	420498.5	3733877	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
672	420508.1	3733875	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
673	420517.6	3733873	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.69E-08	9.58E-07	3.27E-06	3.93E-09
674	420527.2	3733872	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
675	420536.8	3733870	1.14E-05	5.22E-05	1.14E-07	1.57E-06	7.14E-06	1.70E-08	9.61E-07	3.28E-06	3.95E-09
676	420546.3	3733868	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.15E-06	1.70E-08	9.62E-07	3.29E-06	3.95E-09
677	420555.9	3733866	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
678	420565.5	3733865	1.15E-05	5.26E-05	1.15E-07	1.58E-06	7.19E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
679	420575	3733863	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
680	420584.6	3733861	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.74E-07	3.33E-06	4.00E-09
681	420594.1	3733860	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
682	420603.7	3733858	1.17E-05	5.33E-05	1.17E-07	1.60E-06	7.29E-06	1.74E-08	9.81E-07	3.35E-06	4.03E-09
683	420747.1	3733832	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
684	420756.7	3733831	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
685	420766.3	3733829	1.22E-05	5.57E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.21E-09
686	420775.8	3733827	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
687	420785.4	3733825	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.49E-06	4.20E-09
688	420795	3733824	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.59E-06	1.81E-08	1.02E-06	3.49E-06	4.20E-09
689	420804.5	3733822	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.58E-06	1.81E-08	1.02E-06	3.48E-06	4.19E-09
690	420814.1	3733820	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
691	420823.6	3733819	1.21E-05	5.52E-05	1.21E-07	1.65E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
692	420833.2	3733817	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
693	420842.8	3733815	1.20E-05	5.49E-05	1.20E-07	1.64E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
694	420852.3	3733813	1.20E-05	5.47E-05	1.19E-07	1.64E-06	7.47E-06	1.78E-08	1.01E-06	3.43E-06	4.13E-09
695	420220.7	3734289	2.10E-05	9.58E-05	2.10E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
696	420220.7	3734299	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
697	420220.6	3734309	2.08E-05	9.50E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
698	420220.6	3734319	2.07E-05	9.46E-05	2.07E-07	2.83E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
699	420220.6	3734329	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
700	420220.5	3734339	2.05E-05	9.35E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.88E-06	7.07E-09
701	420220.5	3734349	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.02E-09
702	420220.4	3734368	2.01E-05	9.18E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
703	420198.5	3734254	1.91E-05	8.75E-05	1.91E-07	2.62E-06	1.20E-05	2.85E-08	1.61E-06	5.50E-06	6.61E-09
704	420202.9	3734245	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09

705	420207.3	3734236	1.99E-05	9.10E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.72E-06	6.87E-09
706	420211.8	3734228	2.02E-05	9.26E-05	2.02E-07	2.78E-06	1.27E-05	3.01E-08	1.70E-06	5.82E-06	7.00E-09
707	420216.2	3734219	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
708	420220.7	3734210	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
709	420225.1	3734201	2.11E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
710	420229.5	3734192	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.18E-08	1.80E-06	6.14E-06	7.39E-09
711	420234	3734184	2.16E-05	9.86E-05	2.16E-07	2.96E-06	1.35E-05	3.21E-08	1.82E-06	6.20E-06	7.46E-09
712	420238.4	3734175	2.17E-05	9.93E-05	2.17E-07	2.98E-06	1.36E-05	3.23E-08	1.83E-06	6.24E-06	7.51E-09
713	420265	3734122	2.17E-05	9.91E-05	2.17E-07	2.97E-06	1.35E-05	3.23E-08	1.82E-06	6.23E-06	7.49E-09
714	420269.5	3734113	2.15E-05	9.83E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
715	420273.9	3734105	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.12E-06	7.36E-09
716	420278.3	3734096	2.10E-05	9.62E-05	2.10E-07	2.88E-06	1.31E-05	3.13E-08	1.77E-06	6.04E-06	7.27E-09
717	420282.8	3734087	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.75E-06	5.96E-06	7.17E-09
718	420287.2	3734078	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
719	420291.6	3734069	2.01E-05	9.18E-05	2.01E-07	2.75E-06	1.26E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
720	420296.1	3734061	1.97E-05	9.01E-05	1.97E-07	2.70E-06	1.23E-05	2.93E-08	1.66E-06	5.66E-06	6.81E-09
721	420309.4	3734034	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
722	420313.8	3734025	1.80E-05	8.22E-05	1.80E-07	2.47E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
723	420318.3	3734017	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
724	420322.7	3734008	1.71E-05	7.80E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.90E-06	5.89E-09
725	420327.1	3733999	1.66E-05	7.58E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.73E-09
726	420331.6	3733990	1.61E-05	7.37E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.63E-06	5.57E-09
727	420336	3733981	1.56E-05	7.15E-05	1.56E-07	2.15E-06	9.78E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
728	420340.4	3733973	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.50E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
729	420344.9	3733964	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
730	420349.3	3733955	1.43E-05	6.53E-05	1.43E-07	1.96E-06	8.93E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
731	420362.6	3733929	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.15E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
732	420384.8	3733885	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.01E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
733	420389.3	3733876	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.77E-09
734	420393.7	3733867	1.06E-05	4.84E-05	1.06E-07	1.45E-06	6.62E-06	1.58E-08	8.91E-07	3.04E-06	3.66E-09
735	420407.8	3733857	1.03E-05	4.69E-05	1.03E-07	1.41E-06	6.42E-06	1.53E-08	8.64E-07	2.95E-06	3.55E-09
736	420417.5	3733855	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
737	420427.2	3733853	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.38E-06	1.52E-08	8.58E-07	2.93E-06	3.53E-09
738	420436.9	3733851	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
739	420446.6	3733850	1.02E-05	4.64E-05	1.01E-07	1.39E-06	6.35E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
740	420456.3	3733848	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
741	420466	3733846	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
742	420475.7	3733844	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.51E-07	2.91E-06	3.50E-09
743	420485.4	3733843	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.51E-07	2.91E-06	3.50E-09
744	420495.1	3733841	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
745	420504.8	3733839	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
746	420514.5	3733838	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
747	420524.2	3733836	1.02E-05	4.64E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
748	420533.9	3733834	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
749	420543.6	3733832	1.02E-05	4.66E-05	1.02E-07	1.40E-06	6.38E-06	1.52E-08	8.58E-07	2.93E-06	3.52E-09
750	420553.2	3733831	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.60E-07	2.94E-06	3.53E-09
751	420562.9	3733829	1.03E-05	4.69E-05	1.03E-07	1.41E-06	6.41E-06	1.53E-08	8.63E-07	2.95E-06	3.54E-09
752	420572.6	3733827	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
753	420582.3	3733825	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
754	420592	3733824	1.04E-05	4.74E-05	1.04E-07	1.42E-06	6.48E-06	1.54E-08	8.72E-07	2.98E-06	3.58E-09
755	420601.7	3733822	1.04E-05	4.76E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.60E-09
756	420640.5	3733815	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
757	420650.2	3733813	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.92E-07	3.05E-06	3.66E-09
758	420659.9	3733811	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.65E-06	1.58E-08	8.95E-07	3.06E-06	3.68E-09
759	420669.6	3733810	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
760	420679.3	3733808	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.70E-06	1.59E-08	9.01E-07	3.08E-06	3.70E-09
761	420689	3733806	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.72E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
762	420698.7	3733805	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.74E-06	1.60E-08	9.07E-07	3.10E-06	3.72E-09
763	420708.4	3733803	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09

764	420718.1	3733801	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.10E-07	3.11E-06	3.74E-09
765	420727.8	3733799	1.08E-05	4.96E-05	1.08E-07	1.49E-06	6.78E-06	1.61E-08	9.12E-07	3.12E-06	3.75E-09
766	420737.5	3733798	1.09E-05	4.96E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
767	420747.2	3733796	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.12E-06	3.76E-09
768	420756.8	3733794	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
769	420766.5	3733792	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
770	420776.2	3733791	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
771	420785.9	3733789	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
772	420795.6	3733787	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.76E-09
773	420805.3	3733785	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
774	420815	3733784	1.08E-05	4.95E-05	1.08E-07	1.49E-06	6.77E-06	1.61E-08	9.12E-07	3.11E-06	3.74E-09
775	420824.7	3733782	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.76E-06	1.61E-08	9.10E-07	3.11E-06	3.74E-09
776	420834.4	3733780	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.08E-07	3.10E-06	3.73E-09
777	420844.1	3733779	1.08E-05	4.92E-05	1.08E-07	1.47E-06	6.73E-06	1.60E-08	9.05E-07	3.09E-06	3.72E-09
778	420853.8	3733777	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.02E-07	3.08E-06	3.71E-09
779	420863.5	3733775	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
780	420180.7	3734289	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.60E-08	1.47E-06	5.03E-06	6.05E-09
781	420180.7	3734299	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.02E-09
782	420180.6	3734309	1.73E-05	7.92E-05	1.73E-07	2.37E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.98E-09
783	420180.6	3734319	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
784	420180.6	3734329	1.71E-05	7.83E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.92E-06	5.92E-09
785	420180.5	3734338	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
786	420180.5	3734348	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
787	420180.4	3734368	1.67E-05	7.64E-05	1.67E-07	2.29E-06	1.04E-05	2.49E-08	1.41E-06	4.80E-06	5.77E-09
788	420158.3	3734254	1.61E-05	7.38E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.64E-06	5.58E-09
789	420162.7	3734245	1.65E-05	7.54E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.74E-06	5.70E-09
790	420167.2	3734237	1.68E-05	7.69E-05	1.68E-07	2.31E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.81E-09
791	420171.6	3734228	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
792	420176	3734219	1.74E-05	7.98E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.01E-06	6.03E-09
793	420180.4	3734210	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.13E-09
794	420184.8	3734202	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.22E-09
795	420189.2	3734193	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
796	420193.6	3734184	1.85E-05	8.46E-05	1.85E-07	2.54E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
797	420198	3734176	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
798	420211.2	3734149	1.91E-05	8.74E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
799	420215.6	3734141	1.92E-05	8.77E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.61E-06	5.51E-06	6.63E-09
800	420220	3734132	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
801	420224.4	3734123	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
802	420228.8	3734114	1.92E-05	8.77E-05	1.92E-07	2.63E-06	1.20E-05	2.85E-08	1.61E-06	5.51E-06	6.63E-09
803	420233.2	3734106	1.91E-05	8.73E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
804	420237.6	3734097	1.90E-05	8.68E-05	1.90E-07	2.60E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.56E-09
805	420242.1	3734088	1.88E-05	8.62E-05	1.88E-07	2.58E-06	1.18E-05	2.81E-08	1.59E-06	5.41E-06	6.51E-09
806	420246.5	3734079	1.87E-05	8.53E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.36E-06	6.45E-09
807	420268.5	3734036	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
808	420272.9	3734027	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
809	420277.3	3734018	1.67E-05	7.64E-05	1.67E-07	2.29E-06	1.04E-05	2.49E-08	1.41E-06	4.80E-06	5.77E-09
810	420281.7	3734010	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
811	420286.1	3734001	1.60E-05	7.31E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
812	420290.5	3733992	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.76E-06	2.32E-08	1.31E-06	4.49E-06	5.39E-09
813	420294.9	3733983	1.52E-05	6.96E-05	1.52E-07	2.09E-06	9.52E-06	2.27E-08	1.28E-06	4.38E-06	5.26E-09
814	420299.3	3733975	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
815	420303.7	3733966	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.04E-06	2.15E-08	1.22E-06	4.15E-06	5.00E-09
816	420308.1	3733957	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.80E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
817	420312.5	3733948	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
818	420325.8	3733922	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.87E-06	1.87E-08	1.06E-06	3.62E-06	4.35E-09
819	420330.2	3733914	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.65E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
820	420334.6	3733905	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
821	420339	3733896	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
822	420343.4	3733887	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.45E-07	3.23E-06	3.88E-09

823	420347.8	3733879	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.82E-06	1.62E-08	9.18E-07	3.14E-06	3.77E-09
824	420352.2	3733870	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.93E-07	3.05E-06	3.67E-09
825	420356.6	3733861	1.03E-05	4.72E-05	1.03E-07	1.41E-06	6.45E-06	1.54E-08	8.68E-07	2.96E-06	3.57E-09
826	420361	3733852	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.49E-08	8.45E-07	2.89E-06	3.47E-09
827	420365.4	3733844	9.77E-06	4.47E-05	9.77E-08	1.34E-06	6.11E-06	1.45E-08	8.22E-07	2.81E-06	3.38E-09
828	420383.9	3733825	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
829	420393.5	3733823	9.21E-06	4.21E-05	9.20E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.18E-09
830	420403.1	3733821	9.18E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.72E-07	2.64E-06	3.17E-09
831	420412.7	3733819	9.16E-06	4.19E-05	9.15E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.16E-09
832	420422.4	3733818	9.14E-06	4.18E-05	9.13E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
833	420432	3733816	9.12E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
834	420441.6	3733814	9.10E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.66E-07	2.61E-06	3.14E-09
835	420451.2	3733812	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.68E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
836	420460.9	3733811	9.08E-06	4.15E-05	9.08E-08	1.24E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
837	420470.5	3733809	9.08E-06	4.15E-05	9.07E-08	1.24E-06	5.67E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
838	420480.1	3733807	9.08E-06	4.15E-05	9.08E-08	1.24E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
839	420489.8	3733806	9.09E-06	4.15E-05	9.08E-08	1.25E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
840	420499.4	3733804	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
841	420509	3733802	9.10E-06	4.16E-05	9.10E-08	1.25E-06	5.69E-06	1.36E-08	7.66E-07	2.62E-06	3.15E-09
842	420518.6	3733800	9.12E-06	4.17E-05	9.12E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
843	420528.3	3733799	9.14E-06	4.18E-05	9.14E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
844	420537.9	3733797	9.16E-06	4.19E-05	9.16E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.17E-09
845	420547.5	3733795	9.19E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.73E-07	2.64E-06	3.17E-09
846	420557.2	3733794	9.22E-06	4.21E-05	9.21E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.19E-09
847	420566.8	3733792	9.25E-06	4.23E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.78E-07	2.66E-06	3.19E-09
848	420576.4	3733790	9.28E-06	4.24E-05	9.27E-08	1.27E-06	5.80E-06	1.38E-08	7.80E-07	2.67E-06	3.21E-09
849	420586	3733788	9.31E-06	4.26E-05	9.31E-08	1.28E-06	5.82E-06	1.39E-08	7.84E-07	2.68E-06	3.22E-09
850	420595.7	3733787	9.35E-06	4.27E-05	9.34E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
851	420605.3	3733785	9.39E-06	4.29E-05	9.38E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.24E-09
852	420634.2	3733780	9.49E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
853	420643.8	3733778	9.53E-06	4.36E-05	9.52E-08	1.31E-06	5.96E-06	1.42E-08	8.02E-07	2.74E-06	3.29E-09
854	420653.4	3733776	9.56E-06	4.37E-05	9.56E-08	1.31E-06	5.98E-06	1.42E-08	8.05E-07	2.75E-06	3.30E-09
855	420663.1	3733775	9.59E-06	4.38E-05	9.59E-08	1.31E-06	6.00E-06	1.43E-08	8.07E-07	2.76E-06	3.31E-09
856	420672.7	3733773	9.63E-06	4.40E-05	9.62E-08	1.32E-06	6.02E-06	1.43E-08	8.10E-07	2.77E-06	3.33E-09
857	420682.3	3733771	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
858	420691.9	3733769	9.69E-06	4.43E-05	9.68E-08	1.33E-06	6.06E-06	1.44E-08	8.15E-07	2.78E-06	3.35E-09
859	420701.6	3733768	9.71E-06	4.44E-05	9.70E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.35E-09
860	420711.2	3733766	9.73E-06	4.45E-05	9.72E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
861	420720.8	3733764	9.75E-06	4.46E-05	9.74E-08	1.34E-06	6.10E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
862	420730.4	3733763	9.77E-06	4.47E-05	9.76E-08	1.34E-06	6.11E-06	1.45E-08	8.22E-07	2.81E-06	3.38E-09
863	420740.1	3733761	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
864	420749.7	3733759	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
865	420759.3	3733757	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
866	420769	3733756	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
867	420778.6	3733754	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
868	420788.2	3733752	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
869	420797.8	3733750	9.80E-06	4.48E-05	9.79E-08	1.34E-06	6.13E-06	1.46E-08	8.24E-07	2.82E-06	3.39E-09
870	420807.5	3733749	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
871	420817.1	3733747	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
872	420826.7	3733745	9.76E-06	4.46E-05	9.76E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.81E-06	3.37E-09
873	420836.3	3733744	9.74E-06	4.46E-05	9.74E-08	1.34E-06	6.09E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
874	420846	3733742	9.72E-06	4.45E-05	9.72E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
875	420855.6	3733740	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
876	420865.2	3733738	9.67E-06	4.42E-05	9.67E-08	1.33E-06	6.05E-06	1.44E-08	8.14E-07	2.78E-06	3.34E-09
877	420874.9	3733737	9.64E-06	4.41E-05	9.64E-08	1.32E-06	6.03E-06	1.44E-08	8.11E-07	2.77E-06	3.33E-09
878	420140.7	3734289	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
879	420140.7	3734299	1.47E-05	6.72E-05	1.47E-07	2.01E-06	9.19E-06	2.19E-08	1.24E-06	4.22E-06	5.08E-09
880	420140.6	3734309	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.14E-06	2.18E-08	1.23E-06	4.20E-06	5.05E-09
881	420140.6	3734319	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.18E-06	5.02E-09

882	420140.6	3734328	1.44E-05	6.61E-05	1.44E-07	1.98E-06	9.03E-06	2.15E-08	1.22E-06	4.15E-06	4.99E-09
883	420140.5	3734338	1.44E-05	6.57E-05	1.44E-07	1.97E-06	8.98E-06	2.14E-08	1.21E-06	4.13E-06	4.96E-09
884	420140.5	3734348	1.43E-05	6.53E-05	1.43E-07	1.96E-06	8.93E-06	2.13E-08	1.20E-06	4.10E-06	4.93E-09
885	420140.4	3734368	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
886	420118.2	3734254	1.38E-05	6.29E-05	1.38E-07	1.89E-06	8.61E-06	2.05E-08	1.16E-06	3.96E-06	4.76E-09
887	420122.6	3734245	1.41E-05	6.43E-05	1.40E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
888	420127	3734237	1.43E-05	6.56E-05	1.43E-07	1.97E-06	8.97E-06	2.13E-08	1.21E-06	4.12E-06	4.96E-09
889	420144.5	3734202	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.30E-08	1.30E-06	4.43E-06	5.33E-09
890	420148.9	3734193	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
891	420153.3	3734185	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
892	420157.6	3734176	1.61E-05	7.37E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.63E-06	5.57E-09
893	420170.8	3734150	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
894	420175.2	3734141	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.79E-09
895	420179.5	3734133	1.69E-05	7.71E-05	1.69E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
896	420183.9	3734124	1.69E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.85E-09
897	420188.3	3734115	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
898	420192.7	3734107	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
899	420197.1	3734098	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
900	420201.4	3734089	1.69E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.86E-09
901	420205.8	3734081	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
902	420210.2	3734072	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.80E-09
903	420214.6	3734063	1.67E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.79E-06	5.75E-09
904	420232.1	3734028	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.50E-09
905	420236.5	3734020	1.57E-05	7.18E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
906	420240.9	3734011	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
907	420245.2	3734002	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
908	420262.7	3733968	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.76E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
909	420267.1	3733959	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
910	420271.5	3733950	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
911	420284.6	3733924	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
912	420289	3733916	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
913	420293.4	3733907	1.18E-05	5.39E-05	1.18E-07	1.62E-06	7.37E-06	1.76E-08	9.92E-07	3.39E-06	4.08E-09
914	420297.8	3733898	1.15E-05	5.25E-05	1.15E-07	1.58E-06	7.18E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
915	420302.2	3733890	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.67E-08	9.41E-07	3.21E-06	3.87E-09
916	420306.5	3733881	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
917	420310.9	3733872	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.92E-07	3.05E-06	3.66E-09
918	420315.3	3733864	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
919	420319.7	3733855	1.01E-05	4.60E-05	1.00E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.47E-09
920	420324.1	3733846	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
921	420328.4	3733838	9.54E-06	4.36E-05	9.53E-08	1.31E-06	5.96E-06	1.42E-08	8.02E-07	2.74E-06	3.30E-09
922	420341.6	3733812	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
923	420346	3733803	8.61E-06	3.94E-05	8.61E-08	1.18E-06	5.38E-06	1.28E-08	7.25E-07	2.47E-06	2.98E-09
924	420359.9	3733792	8.38E-06	3.83E-05	8.37E-08	1.15E-06	5.24E-06	1.25E-08	7.05E-07	2.41E-06	2.89E-09
925	420388.6	3733787	8.30E-06	3.79E-05	8.30E-08	1.14E-06	5.19E-06	1.24E-08	6.98E-07	2.38E-06	2.87E-09
926	420398.2	3733786	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
927	420407.7	3733784	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
928	420417.3	3733782	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
929	420426.9	3733780	8.23E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
930	420436.5	3733779	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
931	420446	3733777	8.21E-06	3.76E-05	8.21E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
932	420455.6	3733775	8.21E-06	3.75E-05	8.20E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
933	420465.2	3733774	8.21E-06	3.75E-05	8.20E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
934	420474.7	3733772	8.21E-06	3.76E-05	8.21E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
935	420484.3	3733770	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
936	420493.9	3733768	8.23E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
937	420503.4	3733767	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
938	420513	3733765	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
939	420522.6	3733763	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
940	420532.1	3733762	8.30E-06	3.79E-05	8.29E-08	1.14E-06	5.19E-06	1.23E-08	6.98E-07	2.38E-06	2.87E-09

941	420541.7	3733760	8.32E-06	3.81E-05	8.32E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.88E-09
942	420551.3	3733758	8.35E-06	3.82E-05	8.34E-08	1.14E-06	5.22E-06	1.24E-08	7.02E-07	2.40E-06	2.88E-09
943	420560.9	3733757	8.37E-06	3.83E-05	8.37E-08	1.15E-06	5.23E-06	1.25E-08	7.04E-07	2.41E-06	2.89E-09
944	420570.4	3733755	8.40E-06	3.84E-05	8.40E-08	1.15E-06	5.25E-06	1.25E-08	7.07E-07	2.41E-06	2.90E-09
945	420580	3733753	8.44E-06	3.86E-05	8.43E-08	1.16E-06	5.27E-06	1.26E-08	7.10E-07	2.42E-06	2.92E-09
946	420589.6	3733751	8.47E-06	3.87E-05	8.46E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.93E-09
947	420599.1	3733750	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.31E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
948	420608.7	3733748	8.54E-06	3.90E-05	8.53E-08	1.17E-06	5.34E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
949	420618.3	3733746	8.57E-06	3.92E-05	8.56E-08	1.17E-06	5.36E-06	1.28E-08	7.21E-07	2.46E-06	2.96E-09
950	420647	3733741	8.66E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
951	420656.5	3733739	8.69E-06	3.97E-05	8.69E-08	1.19E-06	5.43E-06	1.29E-08	7.31E-07	2.50E-06	3.00E-09
952	420666.1	3733738	8.72E-06	3.99E-05	8.71E-08	1.20E-06	5.45E-06	1.30E-08	7.33E-07	2.51E-06	3.01E-09
953	420675.7	3733736	8.75E-06	4.00E-05	8.74E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.51E-06	3.02E-09
954	420685.3	3733734	8.77E-06	4.01E-05	8.77E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
955	420694.8	3733733	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
956	420704.4	3733731	8.82E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.42E-07	2.53E-06	3.05E-09
957	420714	3733729	8.84E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.32E-08	7.43E-07	2.54E-06	3.05E-09
958	420723.5	3733727	8.85E-06	4.05E-05	8.85E-08	1.21E-06	5.54E-06	1.32E-08	7.45E-07	2.54E-06	3.06E-09
959	420733.1	3733726	8.87E-06	4.06E-05	8.87E-08	1.22E-06	5.55E-06	1.32E-08	7.46E-07	2.55E-06	3.07E-09
960	420742.7	3733724	8.89E-06	4.06E-05	8.88E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.55E-06	3.07E-09
961	420752.2	3733722	8.89E-06	4.07E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.56E-06	3.07E-09
962	420761.8	3733721	8.90E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
963	420771.4	3733719	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
964	420780.9	3733717	8.91E-06	4.08E-05	8.91E-08	1.22E-06	5.57E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
965	420790.5	3733715	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
966	420800.1	3733714	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
967	420809.7	3733712	8.90E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
968	420819.2	3733710	8.89E-06	4.07E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.56E-06	3.07E-09
969	420828.8	3733709	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
970	420838.4	3733707	8.87E-06	4.05E-05	8.86E-08	1.22E-06	5.54E-06	1.32E-08	7.46E-07	2.55E-06	3.06E-09
971	420847.9	3733705	8.85E-06	4.05E-05	8.84E-08	1.21E-06	5.53E-06	1.32E-08	7.45E-07	2.54E-06	3.06E-09
972	420857.5	3733703	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
973	420867.1	3733702	8.81E-06	4.03E-05	8.80E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.04E-09
974	420876.6	3733700	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
975	420886.2	3733698	8.76E-06	4.01E-05	8.76E-08	1.20E-06	5.48E-06	1.30E-08	7.37E-07	2.52E-06	3.03E-09
976	420100.7	3734289	1.26E-05	5.78E-05	1.26E-07	1.73E-06	7.90E-06	1.88E-08	1.06E-06	3.63E-06	4.37E-09
977	420100.7	3734299	1.26E-05	5.74E-05	1.26E-07	1.72E-06	7.85E-06	1.87E-08	1.06E-06	3.61E-06	4.34E-09
978	420100.6	3734309	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
979	420100.6	3734318	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
980	420100.6	3734328	1.23E-05	5.65E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
981	420100.5	3734338	1.23E-05	5.62E-05	1.23E-07	1.68E-06	7.68E-06	1.83E-08	1.03E-06	3.53E-06	4.24E-09
982	420100.5	3734348	1.22E-05	5.58E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
983	420100.4	3734368	1.21E-05	5.52E-05	1.21E-07	1.66E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
984	420078.4	3734254	1.19E-05	5.42E-05	1.19E-07	1.63E-06	7.42E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
985	420082.9	3734245	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
986	420087.3	3734236	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
987	420091.7	3734227	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
988	420096.1	3734218	1.29E-05	5.88E-05	1.28E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
989	420100.6	3734210	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
990	420105	3734201	1.33E-05	6.09E-05	1.33E-07	1.83E-06	8.33E-06	1.98E-08	1.12E-06	3.83E-06	4.61E-09
991	420109.4	3734192	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
992	420113.9	3734183	1.38E-05	6.30E-05	1.38E-07	1.89E-06	8.61E-06	2.05E-08	1.16E-06	3.96E-06	4.76E-09
993	420118.3	3734175	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.02E-06	4.83E-09
994	420144.9	3734122	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
995	420149.3	3734113	1.50E-05	6.87E-05	1.50E-07	2.06E-06	9.40E-06	2.24E-08	1.26E-06	4.32E-06	5.19E-09
996	420153.7	3734104	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.44E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
997	420158.2	3734096	1.51E-05	6.92E-05	1.51E-07	2.07E-06	9.46E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
998	420162.6	3734087	1.52E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.24E-09
999	420167	3734078	1.51E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.23E-09

1000	420171.4	3734069	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
1001	420175.9	3734060	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.42E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
1002	420189.2	3734034	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
1003	420193.6	3734025	1.46E-05	6.69E-05	1.46E-07	2.01E-06	9.15E-06	2.18E-08	1.23E-06	4.21E-06	5.06E-09
1004	420198	3734017	1.45E-05	6.63E-05	1.45E-07	1.99E-06	9.06E-06	2.16E-08	1.22E-06	4.16E-06	5.01E-09
1005	420202.4	3734008	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
1006	420206.9	3733999	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
1007	420211.3	3733990	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.70E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
1008	420215.7	3733982	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.57E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
1009	420220.2	3733973	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
1010	420224.6	3733964	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1011	420229	3733955	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
1012	420260	3733894	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
1013	420264.4	3733885	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
1014	420268.9	3733876	1.06E-05	4.84E-05	1.06E-07	1.45E-06	6.62E-06	1.58E-08	8.91E-07	3.04E-06	3.66E-09
1015	420273.3	3733867	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
1016	420277.7	3733859	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
1017	420282.2	3733850	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
1018	420286.6	3733841	9.58E-06	4.38E-05	9.57E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
1019	420299.9	3733815	8.88E-06	4.06E-05	8.87E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
1020	420304.3	3733806	8.65E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
1021	420308.7	3733797	8.44E-06	3.86E-05	8.44E-08	1.16E-06	5.28E-06	1.26E-08	7.10E-07	2.43E-06	2.92E-09
1022	420313.2	3733788	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
1023	420317.6	3733780	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
1024	420322	3733771	7.85E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.71E-09
1025	420336.1	3733760	7.65E-06	3.50E-05	7.64E-08	1.05E-06	4.78E-06	1.14E-08	6.43E-07	2.20E-06	2.64E-09
1026	420345.8	3733759	7.62E-06	3.48E-05	7.61E-08	1.04E-06	4.76E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
1027	420355.5	3733757	7.60E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1028	420365.1	3733755	7.57E-06	3.46E-05	7.57E-08	1.04E-06	4.73E-06	1.13E-08	6.37E-07	2.18E-06	2.62E-09
1029	420384.5	3733752	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
1030	420394.2	3733750	7.51E-06	3.44E-05	7.51E-08	1.03E-06	4.70E-06	1.12E-08	6.32E-07	2.16E-06	2.60E-09
1031	420403.9	3733748	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1032	420413.5	3733747	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1033	420423.2	3733745	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1034	420432.9	3733743	7.48E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1035	420442.6	3733741	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1036	420452.2	3733740	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1037	420461.9	3733738	7.48E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1038	420471.6	3733736	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1039	420481.3	3733734	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1040	420491	3733733	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1041	420500.6	3733731	7.52E-06	3.44E-05	7.51E-08	1.03E-06	4.70E-06	1.12E-08	6.32E-07	2.16E-06	2.60E-09
1042	420510.3	3733729	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
1043	420520	3733727	7.55E-06	3.45E-05	7.55E-08	1.03E-06	4.72E-06	1.12E-08	6.35E-07	2.17E-06	2.61E-09
1044	420529.7	3733726	7.57E-06	3.46E-05	7.57E-08	1.04E-06	4.73E-06	1.13E-08	6.37E-07	2.18E-06	2.62E-09
1045	420539.3	3733724	7.60E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1046	420549	3733722	7.62E-06	3.49E-05	7.62E-08	1.04E-06	4.77E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
1047	420558.7	3733721	7.65E-06	3.50E-05	7.65E-08	1.05E-06	4.78E-06	1.14E-08	6.44E-07	2.20E-06	2.64E-09
1048	420568.4	3733719	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
1049	420578	3733717	7.71E-06	3.52E-05	7.70E-08	1.06E-06	4.82E-06	1.15E-08	6.49E-07	2.22E-06	2.66E-09
1050	420587.7	3733715	7.74E-06	3.54E-05	7.73E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
1051	420597.4	3733714	7.77E-06	3.55E-05	7.76E-08	1.06E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.68E-09
1052	420607.1	3733712	7.80E-06	3.57E-05	7.80E-08	1.07E-06	4.88E-06	1.16E-08	6.56E-07	2.24E-06	2.70E-09
1053	420616.8	3733710	7.83E-06	3.58E-05	7.83E-08	1.07E-06	4.90E-06	1.17E-08	6.59E-07	2.25E-06	2.71E-09
1054	420626.4	3733708	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
1055	420665.1	3733702	7.97E-06	3.64E-05	7.96E-08	1.09E-06	4.98E-06	1.19E-08	6.70E-07	2.29E-06	2.75E-09
1056	420674.8	3733700	8.00E-06	3.66E-05	7.99E-08	1.10E-06	5.00E-06	1.19E-08	6.73E-07	2.30E-06	2.76E-09
1057	420684.5	3733698	8.02E-06	3.67E-05	8.01E-08	1.10E-06	5.01E-06	1.19E-08	6.75E-07	2.30E-06	2.77E-09
1058	420694.2	3733696	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09

1059	420703.9	3733695	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1060	420713.5	3733693	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1061	420723.2	3733691	8.10E-06	3.70E-05	8.09E-08	1.11E-06	5.06E-06	1.20E-08	6.81E-07	2.33E-06	2.80E-09
1062	420732.9	3733689	8.11E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1063	420742.6	3733688	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1064	420752.2	3733686	8.14E-06	3.72E-05	8.13E-08	1.12E-06	5.09E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1065	420761.9	3733684	8.14E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1066	420771.6	3733682	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1067	420781.3	3733681	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1068	420790.9	3733679	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1069	420800.6	3733677	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1070	420810.3	3733676	8.15E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1071	420820	3733674	8.14E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1072	420829.7	3733672	8.14E-06	3.72E-05	8.13E-08	1.12E-06	5.09E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1073	420839.3	3733670	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1074	420849	3733669	8.11E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1075	420858.7	3733667	8.10E-06	3.70E-05	8.09E-08	1.11E-06	5.06E-06	1.20E-08	6.81E-07	2.33E-06	2.80E-09
1076	420868.4	3733665	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1077	420878	3733663	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1078	420887.7	3733662	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
1079	420897.4	3733660	8.02E-06	3.67E-05	8.02E-08	1.10E-06	5.02E-06	1.19E-08	6.75E-07	2.31E-06	2.77E-09
1080	420060.7	3734289	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.83E-06	1.63E-08	9.19E-07	3.14E-06	3.77E-09
1081	420060.7	3734299	1.09E-05	4.96E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
1082	420060.6	3734308	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
1083	420060.6	3734318	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
1084	420060.6	3734328	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
1085	420060.5	3734338	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
1086	420060.5	3734348	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
1087	420060.4	3734358	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.57E-06	1.56E-08	8.84E-07	3.02E-06	3.63E-09
1088	420060.4	3734368	1.05E-05	4.78E-05	1.04E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.00E-06	3.61E-09
1089	420042.7	3734245	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
1090	420047.1	3734236	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.02E-07	3.08E-06	3.71E-09
1091	420051.5	3734227	1.09E-05	5.00E-05	1.09E-07	1.50E-06	6.84E-06	1.63E-08	9.20E-07	3.14E-06	3.78E-09
1092	420055.9	3734219	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
1093	420060.4	3734210	1.14E-05	5.19E-05	1.13E-07	1.56E-06	7.10E-06	1.69E-08	9.55E-07	3.26E-06	3.92E-09
1094	420064.8	3734201	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
1095	420069.2	3734193	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
1096	420073.6	3734184	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.14E-09
1097	420078	3734175	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
1098	420091.2	3734149	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
1099	420095.6	3734140	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.05E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
1100	420100	3734131	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
1101	420104.4	3734123	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
1102	420108.8	3734114	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.30E-06	1.98E-08	1.12E-06	3.82E-06	4.59E-09
1103	420113.2	3734105	1.34E-05	6.12E-05	1.34E-07	1.83E-06	8.37E-06	1.99E-08	1.13E-06	3.85E-06	4.63E-09
1104	420117.6	3734097	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
1105	420122	3734088	1.35E-05	6.19E-05	1.35E-07	1.86E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.68E-09
1106	420126.4	3734079	1.36E-05	6.21E-05	1.36E-07	1.86E-06	8.49E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
1107	420152.8	3734027	1.35E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
1108	420157.2	3734018	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
1109	420161.6	3734009	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
1110	420166	3734001	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
1111	420170.4	3733992	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
1112	420174.8	3733983	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
1113	420179.2	3733974	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
1114	420183.6	3733966	1.25E-05	5.73E-05	1.25E-07	1.72E-06	7.84E-06	1.87E-08	1.06E-06	3.60E-06	4.33E-09
1115	420188.1	3733957	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
1116	420205.7	3733922	1.16E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
1117	420210.1	3733913	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09

1118	420214.5	3733905	1.11E-05	5.08E-05	1.11E-07	1.52E-06	6.95E-06	1.65E-08	9.35E-07	3.19E-06	3.84E-09
1119	420218.9	3733896	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.76E-09
1120	420223.3	3733887	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.67E-06	1.59E-08	8.97E-07	3.07E-06	3.69E-09
1121	420227.7	3733878	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.78E-07	3.00E-06	3.61E-09
1122	420232.1	3733870	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.59E-07	2.93E-06	3.53E-09
1123	420236.5	3733861	9.99E-06	4.57E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
1124	420240.9	3733852	9.76E-06	4.46E-05	9.75E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.80E-06	3.37E-09
1125	420262.9	3733809	8.67E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
1126	420267.3	3733800	8.47E-06	3.87E-05	8.46E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.93E-09
1127	420271.7	3733791	8.27E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
1128	420276.1	3733782	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1129	420280.5	3733774	7.89E-06	3.61E-05	7.89E-08	1.08E-06	4.93E-06	1.17E-08	6.64E-07	2.27E-06	2.73E-09
1130	420284.9	3733765	7.71E-06	3.53E-05	7.71E-08	1.06E-06	4.82E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
1131	420289.3	3733756	7.54E-06	3.45E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.17E-06	2.60E-09
1132	420293.7	3733747	7.37E-06	3.37E-05	7.36E-08	1.01E-06	4.61E-06	1.10E-08	6.20E-07	2.12E-06	2.55E-09
1133	420298.1	3733739	7.20E-06	3.29E-05	7.20E-08	9.88E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
1134	420312.2	3733728	7.02E-06	3.21E-05	7.02E-08	9.63E-07	4.39E-06	1.05E-08	5.91E-07	2.02E-06	2.43E-09
1135	420321.8	3733727	7.00E-06	3.20E-05	7.00E-08	9.60E-07	4.38E-06	1.04E-08	5.89E-07	2.01E-06	2.42E-09
1136	420331.4	3733725	6.97E-06	3.19E-05	6.97E-08	9.56E-07	4.36E-06	1.04E-08	5.87E-07	2.00E-06	2.41E-09
1137	420341	3733723	6.95E-06	3.18E-05	6.95E-08	9.53E-07	4.34E-06	1.03E-08	5.85E-07	2.00E-06	2.40E-09
1138	420350.7	3733721	6.93E-06	3.17E-05	6.93E-08	9.50E-07	4.33E-06	1.03E-08	5.83E-07	1.99E-06	2.40E-09
1139	420360.3	3733720	6.91E-06	3.16E-05	6.91E-08	9.48E-07	4.32E-06	1.03E-08	5.82E-07	1.99E-06	2.39E-09
1140	420389.1	3733715	6.87E-06	3.14E-05	6.87E-08	9.42E-07	4.30E-06	1.02E-08	5.78E-07	1.97E-06	2.37E-09
1141	420398.8	3733713	6.86E-06	3.14E-05	6.86E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1142	420408.4	3733711	6.85E-06	3.13E-05	6.85E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1143	420418	3733709	6.85E-06	3.13E-05	6.85E-08	9.39E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1144	420427.6	3733708	6.85E-06	3.13E-05	6.84E-08	9.38E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1145	420437.3	3733706	6.85E-06	3.13E-05	6.84E-08	9.38E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1146	420446.9	3733704	6.85E-06	3.13E-05	6.85E-08	9.39E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1147	420456.5	3733702	6.85E-06	3.13E-05	6.85E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1148	420466.1	3733701	6.86E-06	3.14E-05	6.86E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1149	420475.7	3733699	6.87E-06	3.14E-05	6.87E-08	9.42E-07	4.30E-06	1.02E-08	5.78E-07	1.97E-06	2.37E-09
1150	420485.4	3733697	6.88E-06	3.15E-05	6.88E-08	9.43E-07	4.30E-06	1.02E-08	5.79E-07	1.98E-06	2.38E-09
1151	420495	3733696	6.90E-06	3.15E-05	6.90E-08	9.46E-07	4.31E-06	1.03E-08	5.80E-07	1.98E-06	2.38E-09
1152	420504.6	3733694	6.91E-06	3.16E-05	6.91E-08	9.48E-07	4.32E-06	1.03E-08	5.82E-07	1.99E-06	2.39E-09
1153	420514.2	3733692	6.93E-06	3.17E-05	6.93E-08	9.50E-07	4.33E-06	1.03E-08	5.83E-07	1.99E-06	2.40E-09
1154	420523.9	3733690	6.95E-06	3.18E-05	6.95E-08	9.53E-07	4.34E-06	1.03E-08	5.85E-07	2.00E-06	2.40E-09
1155	420533.5	3733689	6.97E-06	3.19E-05	6.97E-08	9.56E-07	4.36E-06	1.04E-08	5.87E-07	2.00E-06	2.41E-09
1156	420543.1	3733687	7.00E-06	3.20E-05	6.99E-08	9.59E-07	4.37E-06	1.04E-08	5.89E-07	2.01E-06	2.42E-09
1157	420552.7	3733685	7.02E-06	3.21E-05	7.02E-08	9.63E-07	4.39E-06	1.05E-08	5.91E-07	2.02E-06	2.43E-09
1158	420562.3	3733684	7.05E-06	3.22E-05	7.05E-08	9.66E-07	4.41E-06	1.05E-08	5.93E-07	2.03E-06	2.44E-09
1159	420572	3733682	7.07E-06	3.23E-05	7.07E-08	9.69E-07	4.42E-06	1.05E-08	5.95E-07	2.03E-06	2.44E-09
1160	420581.6	3733680	7.10E-06	3.25E-05	7.10E-08	9.74E-07	4.44E-06	1.06E-08	5.98E-07	2.04E-06	2.45E-09
1161	420591.2	3733678	7.13E-06	3.26E-05	7.13E-08	9.78E-07	4.46E-06	1.06E-08	6.00E-07	2.05E-06	2.46E-09
1162	420600.8	3733677	7.16E-06	3.27E-05	7.15E-08	9.81E-07	4.48E-06	1.07E-08	6.02E-07	2.06E-06	2.47E-09
1163	420610.5	3733675	7.19E-06	3.29E-05	7.18E-08	9.85E-07	4.49E-06	1.07E-08	6.05E-07	2.06E-06	2.48E-09
1164	420620.1	3733673	7.21E-06	3.30E-05	7.21E-08	9.89E-07	4.51E-06	1.07E-08	6.07E-07	2.07E-06	2.49E-09
1165	420629.7	3733671	7.24E-06	3.31E-05	7.24E-08	9.93E-07	4.53E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
1166	420639.3	3733670	7.26E-06	3.32E-05	7.26E-08	9.96E-07	4.54E-06	1.08E-08	6.11E-07	2.09E-06	2.51E-09
1167	420677.8	3733663	7.36E-06	3.37E-05	7.36E-08	1.01E-06	4.60E-06	1.10E-08	6.19E-07	2.12E-06	2.54E-09
1168	420687.4	3733661	7.38E-06	3.37E-05	7.38E-08	1.01E-06	4.61E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1169	420697.1	3733659	7.40E-06	3.38E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1170	420706.7	3733658	7.42E-06	3.39E-05	7.41E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1171	420716.3	3733656	7.44E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
1172	420725.9	3733654	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
1173	420735.5	3733653	7.46E-06	3.41E-05	7.46E-08	1.02E-06	4.67E-06	1.11E-08	6.28E-07	2.14E-06	2.58E-09
1174	420745.2	3733651	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1175	420754.8	3733649	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1176	420764.4	3733647	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09

1177	420774	3733646	7.50E-06	3.43E-05	7.49E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.15E-06	2.59E-09
1178	420783.7	3733644	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1179	420793.3	3733642	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1180	420802.9	3733641	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1181	420812.5	3733639	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1182	420822.1	3733637	7.50E-06	3.43E-05	7.49E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.15E-06	2.59E-09
1183	420831.8	3733635	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1184	420841.4	3733634	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1185	420851	3733632	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1186	420860.6	3733630	7.46E-06	3.41E-05	7.46E-08	1.02E-06	4.67E-06	1.11E-08	6.28E-07	2.14E-06	2.58E-09
1187	420870.3	3733628	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
1188	420879.9	3733627	7.44E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
1189	420889.5	3733625	7.42E-06	3.39E-05	7.42E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1190	420899.1	3733623	7.40E-06	3.39E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1191	420908.7	3733622	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1192	420020.7	3734289	9.54E-06	4.36E-05	9.54E-08	1.31E-06	5.96E-06	1.42E-08	8.03E-07	2.74E-06	3.30E-09
1193	420020.7	3734298	9.49E-06	4.34E-05	9.48E-08	1.30E-06	5.93E-06	1.41E-08	7.98E-07	2.73E-06	3.28E-09
1194	420020.6	3734308	9.43E-06	4.31E-05	9.43E-08	1.29E-06	5.90E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1195	420020.6	3734318	9.38E-06	4.29E-05	9.38E-08	1.29E-06	5.87E-06	1.40E-08	7.89E-07	2.70E-06	3.24E-09
1196	420020.6	3734328	9.34E-06	4.27E-05	9.33E-08	1.28E-06	5.84E-06	1.39E-08	7.85E-07	2.68E-06	3.23E-09
1197	420020.5	3734338	9.29E-06	4.25E-05	9.28E-08	1.27E-06	5.81E-06	1.38E-08	7.81E-07	2.67E-06	3.21E-09
1198	420020.5	3734348	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
1199	420020.4	3734358	9.19E-06	4.20E-05	9.19E-08	1.26E-06	5.75E-06	1.37E-08	7.74E-07	2.64E-06	3.18E-09
1200	420020.4	3734367	9.15E-06	4.18E-05	9.14E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
1201	420655.7	3734210	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.15E-07	6.47E-06	2.21E-05	2.66E-08
1202	420722.2	3734190	7.41E-05	3.39E-04	7.40E-07	1.02E-05	4.63E-05	1.10E-07	6.23E-06	2.13E-05	2.56E-08
1203	420646.5	3734189	6.43E-05	2.94E-04	6.43E-07	8.82E-06	4.02E-05	9.57E-08	5.41E-06	1.85E-05	2.22E-08
1204	420656.3	3734150	4.89E-05	2.24E-04	4.89E-07	6.71E-06	3.06E-05	7.29E-08	4.12E-06	1.41E-05	1.69E-08
1205	420646.9	3734149	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.66E-08
1206	420685.6	3734070	3.14E-05	1.44E-04	3.14E-07	4.31E-06	1.97E-05	4.68E-08	2.65E-06	9.04E-06	1.09E-08
1207	420648.9	3733950	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
1208	420668.3	3733910	1.49E-05	6.82E-05	1.49E-07	2.04E-06	9.32E-06	2.22E-08	1.25E-06	4.29E-06	5.15E-09
1209	420658.8	3733910	1.48E-05	6.75E-05	1.48E-07	2.02E-06	9.23E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
1210	420649.3	3733910	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
1211	420687.6	3733870	1.32E-05	6.02E-05	1.32E-07	1.81E-06	8.24E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
1212	420678.1	3733870	1.30E-05	5.97E-05	1.30E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
1213	420668.7	3733870	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.72E-06	4.47E-09
1214	420659.2	3733870	1.28E-05	5.85E-05	1.28E-07	1.76E-06	8.01E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
1215	420649.7	3733870	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
1216	420706.9	3733830	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
1217	420697.5	3733830	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.79E-07	3.34E-06	4.02E-09
1218	420688	3733830	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
1219	420678.5	3733830	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.16E-06	1.70E-08	9.63E-07	3.29E-06	3.95E-09
1220	420669.1	3733830	1.13E-05	5.19E-05	1.13E-07	1.56E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
1221	420659.6	3733830	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
1222	420650.1	3733830	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
1223	420726.3	3733790	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
1224	420716.8	3733790	1.05E-05	4.79E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
1225	420707.4	3733790	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.59E-09
1226	420697.9	3733790	1.03E-05	4.72E-05	1.03E-07	1.41E-06	6.45E-06	1.54E-08	8.68E-07	2.96E-06	3.56E-09
1227	420688.4	3733790	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
1228	420678.9	3733790	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.35E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
1229	420669.5	3733790	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1230	420660	3733790	9.98E-06	4.56E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
1231	420650.5	3733790	9.90E-06	4.52E-05	9.89E-08	1.36E-06	6.19E-06	1.47E-08	8.32E-07	2.84E-06	3.42E-09
1232	420726.7	3733750	9.42E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1233	420717.2	3733750	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
1234	420707.8	3733750	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
1235	420698.3	3733750	9.23E-06	4.22E-05	9.23E-08	1.27E-06	5.77E-06	1.37E-08	7.77E-07	2.65E-06	3.19E-09

1236	420688.8	3733750	9.16E-06	4.19E-05	9.16E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.17E-09
1237	420679.4	3733750	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
1238	420669.9	3733750	9.02E-06	4.13E-05	9.02E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
1239	420660.4	3733750	8.95E-06	4.09E-05	8.94E-08	1.23E-06	5.60E-06	1.33E-08	7.53E-07	2.57E-06	3.09E-09
1240	420650.9	3733750	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
1241	420727.1	3733710	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.32E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
1242	420717.6	3733710	8.45E-06	3.86E-05	8.45E-08	1.16E-06	5.28E-06	1.26E-08	7.11E-07	2.43E-06	2.92E-09
1243	420708.2	3733710	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1244	420698.7	3733710	8.34E-06	3.81E-05	8.33E-08	1.14E-06	5.21E-06	1.24E-08	7.01E-07	2.40E-06	2.88E-09
1245	420689.2	3733710	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
1246	420679.8	3733710	8.22E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
1247	420670.3	3733710	8.16E-06	3.73E-05	8.16E-08	1.12E-06	5.10E-06	1.22E-08	6.87E-07	2.35E-06	2.82E-09
1248	420727.5	3733670	7.73E-06	3.53E-05	7.73E-08	1.06E-06	4.83E-06	1.15E-08	6.50E-07	2.22E-06	2.67E-09
1249	420718	3733670	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
1250	420708.6	3733670	7.64E-06	3.49E-05	7.63E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
1251	420699.1	3733670	7.59E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1252	420689.6	3733670	7.54E-06	3.45E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.17E-06	2.60E-09
1253	420614.8	3734379	4.73E-04	2.16E-03	4.73E-06	6.49E-05	2.96E-04	7.05E-07	3.98E-05	1.36E-04	1.64E-07
1254	420615	3734396	5.79E-04	2.65E-03	5.79E-06	7.94E-05	3.62E-04	8.62E-07	4.87E-05	1.66E-04	2.00E-07
1255	420604.8	3734379	4.23E-04	1.93E-03	4.22E-06	5.79E-05	2.64E-04	6.29E-07	3.56E-05	1.21E-04	1.46E-07
1256	420605	3734396	5.03E-04	2.30E-03	5.03E-06	6.89E-05	3.14E-04	7.48E-07	4.23E-05	1.44E-04	1.74E-07
1257	420594.8	3734379	3.77E-04	1.73E-03	3.77E-06	5.17E-05	2.36E-04	5.62E-07	3.18E-05	1.08E-04	1.30E-07
1258	420595	3734396	4.38E-04	2.00E-03	4.37E-06	6.00E-05	2.74E-04	6.51E-07	3.68E-05	1.26E-04	1.51E-07
1259	420609.4	3734324	2.28E-04	1.04E-03	2.28E-06	3.13E-05	1.43E-04	3.40E-07	1.92E-05	6.56E-05	7.89E-08
1260	420584.8	3734379	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.02E-07	2.84E-05	9.68E-05	1.16E-07
1261	420585	3734396	3.82E-04	1.75E-03	3.82E-06	5.24E-05	2.39E-04	5.69E-07	3.21E-05	1.10E-04	1.32E-07
1262	420589.3	3734334	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.61E-05	7.94E-08
1263	420609.5	3734314	2.02E-04	9.25E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.99E-08
1264	420574.8	3734379	3.01E-04	1.38E-03	3.01E-06	4.13E-05	1.88E-04	4.48E-07	2.53E-05	8.65E-05	1.04E-07
1265	420575	3734396	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.09E-04	4.99E-07	2.82E-05	9.62E-05	1.16E-07
1266	420609.6	3734304	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.16E-05	6.21E-08
1267	420564.8	3734379	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.01E-07	2.27E-05	7.74E-05	9.31E-08
1268	420565	3734397	2.95E-04	1.35E-03	2.95E-06	4.04E-05	1.84E-04	4.39E-07	2.48E-05	8.47E-05	1.02E-07
1269	420569.3	3734335	2.02E-04	9.22E-04	2.02E-06	2.76E-05	1.26E-04	3.00E-07	1.70E-05	5.79E-05	6.97E-08
1270	420609.7	3734294	1.60E-04	7.33E-04	1.60E-06	2.20E-05	1.00E-04	2.39E-07	1.35E-05	4.60E-05	5.54E-08
1271	420554.8	3734379	2.41E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.34E-08
1272	420555	3734397	2.60E-04	1.19E-03	2.60E-06	3.57E-05	1.63E-04	3.87E-07	2.19E-05	7.48E-05	8.99E-08
1273	420570.6	3734307	1.58E-04	7.20E-04	1.57E-06	2.16E-05	9.85E-05	2.35E-07	1.33E-05	4.53E-05	5.45E-08
1274	420589.8	3734292	1.47E-04	6.74E-04	1.47E-06	2.02E-05	9.22E-05	2.19E-07	1.24E-05	4.24E-05	5.09E-08
1275	420544.8	3734379	2.16E-04	9.90E-04	2.16E-06	2.97E-05	1.35E-04	3.22E-07	1.82E-05	6.22E-05	7.48E-08
1276	420545	3734397	2.31E-04	1.05E-03	2.31E-06	3.16E-05	1.44E-04	3.43E-07	1.94E-05	6.63E-05	7.97E-08
1277	420550.1	3734308	1.44E-04	6.57E-04	1.44E-06	1.97E-05	8.99E-05	2.14E-07	1.21E-05	4.13E-05	4.97E-08
1278	420524.8	3734380	1.75E-04	8.02E-04	1.75E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.04E-05	6.06E-08
1279	420525	3734397	1.83E-04	8.37E-04	1.83E-06	2.51E-05	1.14E-04	2.73E-07	1.54E-05	5.26E-05	6.33E-08
1280	420529.8	3734309	1.29E-04	5.90E-04	1.29E-06	1.77E-05	8.07E-05	1.92E-07	1.09E-05	3.71E-05	4.46E-08
1281	420504.8	3734380	1.43E-04	6.56E-04	1.43E-06	1.97E-05	8.97E-05	2.14E-07	1.21E-05	4.12E-05	4.96E-08
1282	420505	3734397	1.47E-04	6.74E-04	1.47E-06	2.02E-05	9.22E-05	2.20E-07	1.24E-05	4.24E-05	5.10E-08
1283	420577.3	3734238	8.46E-05	3.87E-04	8.46E-07	1.16E-05	5.29E-05	1.26E-07	7.12E-06	2.43E-05	2.92E-08
1284	420484.8	3734380	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
1285	420485	3734397	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.53E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
1286	420540	3734233	7.53E-05	3.44E-04	7.53E-07	1.03E-05	4.71E-05	1.12E-07	6.34E-06	2.17E-05	2.60E-08
1287	420464.8	3734380	9.87E-05	4.51E-04	9.86E-07	1.35E-05	6.17E-05	1.47E-07	8.30E-06	2.84E-05	3.41E-08
1288	420465	3734398	9.95E-05	4.55E-04	9.94E-07	1.36E-05	6.22E-05	1.48E-07	8.37E-06	2.86E-05	3.44E-08
1289	420470.6	3734308	8.87E-05	4.06E-04	8.87E-07	1.22E-05	5.55E-05	1.32E-07	7.46E-06	2.55E-05	3.07E-08
1290	420527	3734218	6.64E-05	3.04E-04	6.64E-07	9.10E-06	4.15E-05	9.89E-08	5.59E-06	1.91E-05	2.30E-08
1291	420444.8	3734381	8.30E-05	3.79E-04	8.30E-07	1.14E-05	5.19E-05	1.24E-07	6.98E-06	2.38E-05	2.87E-08
1292	420445	3734398	8.32E-05	3.80E-04	8.31E-07	1.14E-05	5.20E-05	1.24E-07	7.00E-06	2.39E-05	2.87E-08
1293	420450.4	3734309	7.80E-05	3.57E-04	7.80E-07	1.07E-05	4.88E-05	1.16E-07	6.56E-06	2.24E-05	2.70E-08
1294	420485.7	3734222	6.15E-05	2.81E-04	6.15E-07	8.44E-06	3.85E-05	9.16E-08	5.18E-06	1.77E-05	2.13E-08

1295	420468.4	3734216	5.64E-05	2.58E-04	5.63E-07	7.73E-06	3.52E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
1296	420607.9	3734146	4.42E-05	2.02E-04	4.42E-07	6.06E-06	2.76E-05	6.58E-08	3.72E-06	1.27E-05	1.53E-08
1297	420404.8	3734381	6.03E-05	2.76E-04	6.03E-07	8.27E-06	3.77E-05	8.98E-08	5.08E-06	1.73E-05	2.09E-08
1298	420405	3734398	6.00E-05	2.74E-04	6.00E-07	8.23E-06	3.75E-05	8.94E-08	5.05E-06	1.73E-05	2.07E-08
1299	420397.3	3734342	5.70E-05	2.61E-04	5.70E-07	7.82E-06	3.57E-05	8.49E-08	4.80E-06	1.64E-05	1.97E-08
1300	420403.6	3734326	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
1301	420410	3734310	6.03E-05	2.75E-04	6.02E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
1302	420451.1	3734209	5.17E-05	2.36E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
1303	420457.4	3734194	4.85E-05	2.22E-04	4.84E-07	6.65E-06	3.03E-05	7.22E-08	4.08E-06	1.39E-05	1.68E-08
1304	420600.6	3734129	3.93E-05	1.80E-04	3.92E-07	5.38E-06	2.45E-05	5.85E-08	3.30E-06	1.13E-05	1.36E-08
1305	420384.8	3734381	5.21E-05	2.38E-04	5.21E-07	7.14E-06	3.26E-05	7.76E-08	4.38E-06	1.50E-05	1.80E-08
1306	420385	3734399	5.17E-05	2.37E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
1307	420389.8	3734311	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
1308	420396.1	3734296	5.40E-05	2.47E-04	5.40E-07	7.41E-06	3.38E-05	8.04E-08	4.54E-06	1.55E-05	1.87E-08
1309	420415	3734249	5.33E-05	2.43E-04	5.32E-07	7.30E-06	3.33E-05	7.93E-08	4.48E-06	1.53E-05	1.84E-08
1310	420421.3	3734234	5.18E-05	2.37E-04	5.18E-07	7.10E-06	3.24E-05	7.71E-08	4.36E-06	1.49E-05	1.79E-08
1311	420427.6	3734218	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
1312	420454.2	3734169	4.20E-05	1.92E-04	4.19E-07	5.75E-06	2.62E-05	6.25E-08	3.53E-06	1.21E-05	1.45E-08
1313	420577.9	3734118	3.58E-05	1.64E-04	3.58E-07	4.91E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
1314	420364.8	3734382	4.54E-05	2.07E-04	4.53E-07	6.22E-06	2.84E-05	6.75E-08	3.82E-06	1.30E-05	1.57E-08
1315	420365	3734399	4.50E-05	2.06E-04	4.49E-07	6.16E-06	2.81E-05	6.69E-08	3.78E-06	1.29E-05	1.55E-08
1316	420357.6	3734341	4.38E-05	2.00E-04	4.38E-07	6.00E-06	2.74E-05	6.52E-08	3.69E-06	1.26E-05	1.51E-08
1317	420364.1	3734325	4.55E-05	2.08E-04	4.55E-07	6.24E-06	2.85E-05	6.78E-08	3.83E-06	1.31E-05	1.57E-08
1318	420370.6	3734309	4.70E-05	2.15E-04	4.70E-07	6.45E-06	2.94E-05	7.00E-08	3.96E-06	1.35E-05	1.62E-08
1319	420409.6	3734213	4.58E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.32E-05	1.58E-08
1320	420416.1	3734198	4.38E-05	2.00E-04	4.38E-07	6.01E-06	2.74E-05	6.53E-08	3.69E-06	1.26E-05	1.52E-08
1321	420422.6	3734182	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
1322	420464.2	3734145	3.74E-05	1.71E-04	3.74E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1323	420480.2	3734138	3.68E-05	1.68E-04	3.68E-07	5.04E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
1324	420575.9	3734099	3.20E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.18E-06	1.10E-08
1325	420344.8	3734382	3.97E-05	1.82E-04	3.97E-07	5.45E-06	2.48E-05	5.92E-08	3.34E-06	1.14E-05	1.37E-08
1326	420345	3734399	3.94E-05	1.80E-04	3.93E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
1327	420317.5	3734342	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
1328	420323.9	3734326	3.57E-05	1.63E-04	3.56E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.02E-05	1.23E-08
1329	420330.3	3734311	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.51E-08	3.11E-06	1.06E-05	1.28E-08
1330	420388	3734169	3.58E-05	1.63E-04	3.57E-07	4.90E-06	2.24E-05	5.32E-08	3.01E-06	1.03E-05	1.24E-08
1331	420400.8	3734137	3.22E-05	1.47E-04	3.22E-07	4.42E-06	2.02E-05	4.80E-08	2.71E-06	9.26E-06	1.11E-08
1332	420411.8	3734126	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.63E-06	8.99E-06	1.08E-08
1333	420443.3	3734113	3.07E-05	1.41E-04	3.07E-07	4.21E-06	1.92E-05	4.57E-08	2.59E-06	8.83E-06	1.06E-08
1334	420459.1	3734107	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
1335	420490.6	3734094	2.90E-05	1.33E-04	2.90E-07	3.97E-06	1.81E-05	4.32E-08	2.44E-06	8.33E-06	1.00E-08
1336	420304.8	3734382	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.62E-06	8.94E-06	1.07E-08
1337	420305	3734400	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
1338	420277.7	3734342	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.45E-09
1339	420284.3	3734326	2.85E-05	1.30E-04	2.85E-07	3.91E-06	1.78E-05	4.24E-08	2.40E-06	8.19E-06	9.85E-09
1340	420330	3734214	3.32E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.55E-06	1.15E-08
1341	420336.5	3734197	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.46E-06	1.14E-08
1342	420343	3734181	3.23E-05	1.48E-04	3.23E-07	4.43E-06	2.02E-05	4.81E-08	2.72E-06	9.28E-06	1.12E-08
1343	420362.6	3734133	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.37E-06	1.01E-08
1344	420369.1	3734117	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.97E-06	9.59E-09
1345	420415.8	3734085	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.43E-06	8.94E-09
1346	420431.8	3734078	2.55E-05	1.16E-04	2.55E-07	3.49E-06	1.59E-05	3.79E-08	2.14E-06	7.32E-06	8.80E-09
1347	420463.9	3734065	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.64E-08	2.06E-06	7.03E-06	8.46E-09
1348	420520.1	3734042	2.26E-05	1.03E-04	2.26E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.80E-09
1349	420536.2	3734035	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
1350	420552.2	3734029	2.17E-05	9.91E-05	2.17E-07	2.97E-06	1.36E-05	3.23E-08	1.82E-06	6.23E-06	7.49E-09
1351	420568.3	3734022	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.18E-08	1.79E-06	6.13E-06	7.37E-09
1352	420584.3	3734016	2.10E-05	9.62E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.27E-09
1353	420264.8	3734383	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09

1354	420265	3734400	2.46E-05	1.13E-04	2.46E-07	3.38E-06	1.54E-05	3.67E-08	2.07E-06	7.08E-06	8.52E-09
1355	420237.6	3734343	2.22E-05	1.01E-04	2.22E-07	3.04E-06	1.39E-05	3.30E-08	1.87E-06	6.37E-06	7.66E-09
1356	420244	3734327	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.98E-09
1357	420250.5	3734311	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.31E-09
1358	420295.7	3734200	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.08E-06	9.72E-09
1359	420302.2	3734184	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.04E-06	9.67E-09
1360	420308.6	3734168	2.77E-05	1.26E-04	2.76E-07	3.79E-06	1.73E-05	4.12E-08	2.33E-06	7.95E-06	9.56E-09
1361	420321.5	3734136	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.13E-09
1362	420328	3734120	2.56E-05	1.17E-04	2.55E-07	3.50E-06	1.60E-05	3.80E-08	2.15E-06	7.34E-06	8.83E-09
1363	420334.4	3734105	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.50E-09
1364	420340.9	3734089	2.36E-05	1.08E-04	2.35E-07	3.23E-06	1.47E-05	3.51E-08	1.98E-06	6.77E-06	8.14E-09
1365	420355.3	3734070	2.24E-05	1.03E-04	2.24E-07	3.08E-06	1.40E-05	3.34E-08	1.89E-06	6.45E-06	7.76E-09
1366	420442.6	3734034	2.08E-05	9.51E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
1367	420458.4	3734027	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1368	420490.2	3734014	1.95E-05	8.90E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.59E-06	6.73E-09
1369	420521.9	3734001	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
1370	420537.8	3733995	1.84E-05	8.40E-05	1.84E-07	2.52E-06	1.15E-05	2.74E-08	1.55E-06	5.28E-06	6.35E-09
1371	420553.7	3733988	1.81E-05	8.27E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
1372	420569.6	3733982	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
1373	420224.8	3734383	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.02E-08	1.71E-06	5.84E-06	7.02E-09
1374	420225	3734401	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
1375	420197.5	3734344	1.83E-05	8.37E-05	1.83E-07	2.51E-06	1.14E-05	2.73E-08	1.54E-06	5.26E-06	6.33E-09
1376	420203.9	3734328	1.90E-05	8.70E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.57E-09
1377	420210.3	3734312	1.98E-05	9.04E-05	1.98E-07	2.71E-06	1.24E-05	2.94E-08	1.66E-06	5.68E-06	6.83E-09
1378	420267.8	3734170	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.32E-09
1379	420280.6	3734139	2.36E-05	1.08E-04	2.36E-07	3.23E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.15E-09
1380	420287	3734123	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.44E-08	1.95E-06	6.65E-06	7.99E-09
1381	420293.4	3734108	2.25E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.79E-09
1382	420299.8	3734092	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.28E-06	7.56E-09
1383	420306.2	3734076	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.07E-06	7.29E-09
1384	420312.6	3734060	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
1385	420366.2	3734025	1.90E-05	8.69E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
1386	420421.3	3734003	1.79E-05	8.18E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.51E-06	5.14E-06	6.18E-09
1387	420437	3733996	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
1388	420468.4	3733983	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.81E-09
1389	420484.2	3733977	1.65E-05	7.53E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.73E-06	5.69E-09
1390	420515.6	3733964	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.49E-09
1391	420531.4	3733958	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
1392	420547.1	3733951	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1393	420633.6	3733916	1.47E-05	6.72E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.08E-09
1394	420184.8	3734384	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
1395	420185	3734401	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.80E-06	5.78E-09
1396	420157.7	3734344	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
1397	420164.2	3734328	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
1398	420170.6	3734312	1.65E-05	7.57E-05	1.65E-07	2.27E-06	1.03E-05	2.46E-08	1.39E-06	4.76E-06	5.72E-09
1399	420216.1	3734200	2.04E-05	9.32E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.86E-06	7.04E-09
1400	420222.6	3734184	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
1401	420242	3734136	2.08E-05	9.49E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
1402	420261.5	3734088	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
1403	420268	3734072	1.93E-05	8.80E-05	1.92E-07	2.64E-06	1.20E-05	2.87E-08	1.62E-06	5.53E-06	6.65E-09
1404	420274.5	3734056	1.87E-05	8.53E-05	1.86E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.36E-06	6.45E-09
1405	420287.5	3734024	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.97E-06	5.97E-09
1406	420298.7	3734013	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
1407	420338.6	3733997	1.66E-05	7.59E-05	1.66E-07	2.28E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.74E-09
1408	420354.5	3733990	1.64E-05	7.49E-05	1.64E-07	2.25E-06	1.02E-05	2.44E-08	1.38E-06	4.71E-06	5.66E-09
1409	420394.4	3733974	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
1410	420410.4	3733967	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
1411	420442.3	3733954	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.19E-08	1.24E-06	4.24E-06	5.10E-09
1412	420522.1	3733922	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09

1413	420538	3733915	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
1414	420633.8	3733876	1.28E-05	5.83E-05	1.28E-07	1.75E-06	7.98E-06	1.90E-08	1.07E-06	3.67E-06	4.41E-09
1415	420144.8	3734384	1.42E-05	6.51E-05	1.42E-07	1.95E-06	8.90E-06	2.12E-08	1.20E-06	4.09E-06	4.92E-09
1416	420145	3734402	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
1417	420117.6	3734344	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
1418	420124	3734329	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
1419	420130.4	3734313	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.75E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
1420	420175.5	3734202	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
1421	420181.9	3734186	1.77E-05	8.10E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
1422	420188.4	3734170	1.80E-05	8.22E-05	1.80E-07	2.46E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.21E-09
1423	420201.2	3734139	1.82E-05	8.34E-05	1.82E-07	2.50E-06	1.14E-05	2.72E-08	1.53E-06	5.24E-06	6.30E-09
1424	420207.7	3734123	1.82E-05	8.33E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.24E-06	6.30E-09
1425	420214.1	3734107	1.81E-05	8.28E-05	1.81E-07	2.48E-06	1.13E-05	2.70E-08	1.52E-06	5.21E-06	6.26E-09
1426	420220.6	3734091	1.79E-05	8.19E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.19E-09
1427	420227	3734075	1.76E-05	8.05E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
1428	420233.4	3734059	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.96E-09
1429	420270.3	3733985	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.15E-09
1430	420286.1	3733978	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
1431	420317.8	3733965	1.46E-05	6.66E-05	1.46E-07	2.00E-06	9.11E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
1432	420333.6	3733959	1.44E-05	6.58E-05	1.44E-07	1.97E-06	8.99E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
1433	420420.7	3733923	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
1434	420436.5	3733917	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
1435	420452.3	3733910	1.25E-05	5.72E-05	1.25E-07	1.71E-06	7.82E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
1436	420468.1	3733904	1.23E-05	5.62E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.03E-06	3.53E-06	4.25E-09
1437	420484	3733897	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
1438	420499.8	3733891	1.19E-05	5.46E-05	1.19E-07	1.64E-06	7.47E-06	1.78E-08	1.00E-06	3.43E-06	4.13E-09
1439	420515.6	3733885	1.18E-05	5.40E-05	1.18E-07	1.62E-06	7.38E-06	1.76E-08	9.93E-07	3.39E-06	4.08E-09
1440	420602.7	3733849	1.13E-05	5.17E-05	1.13E-07	1.55E-06	7.07E-06	1.68E-08	9.52E-07	3.25E-06	3.91E-09
1441	420104.7	3734376	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
1442	420104.9	3734393	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
1443	420077.7	3734345	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
1444	420084.2	3734329	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.27E-06	1.73E-08	9.78E-07	3.34E-06	4.02E-09
1445	420090.8	3734312	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
1446	420146.1	3734176	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1447	420159.2	3734144	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
1448	420165.7	3734128	1.61E-05	7.34E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.55E-09
1449	420172.2	3734112	1.61E-05	7.36E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.35E-06	4.63E-06	5.56E-09
1450	420178.7	3734096	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.62E-06	5.55E-09
1451	420185.2	3734080	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.98E-06	2.38E-08	1.34E-06	4.59E-06	5.51E-09
1452	420191.7	3734064	1.58E-05	7.21E-05	1.58E-07	2.16E-06	9.86E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
1453	420204.8	3734032	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.51E-06	2.26E-08	1.28E-06	4.37E-06	5.25E-09
1454	420211.3	3734016	1.48E-05	6.78E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
1455	420217.8	3734000	1.44E-05	6.59E-05	1.44E-07	1.98E-06	9.02E-06	2.15E-08	1.21E-06	4.14E-06	4.98E-09
1456	420242.1	3733957	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1457	420346.2	3733914	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
1458	420362.2	3733907	1.21E-05	5.52E-05	1.21E-07	1.66E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
1459	420394.3	3733894	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
1460	420410.3	3733888	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
1461	420426.3	3733881	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.41E-07	3.22E-06	3.87E-09
1462	420442.3	3733875	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.88E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
1463	420458.3	3733868	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
1464	420474.3	3733862	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
1465	420490.4	3733855	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
1466	420506.4	3733848	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.78E-07	3.00E-06	3.60E-09
1467	420586.5	3733816	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1468	420602.5	3733809	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.46E-09
1469	420634.5	3733796	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
1470	420064.7	3734377	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
1471	420064.9	3734394	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09

1472	420031.2	3734361	9.50E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
1473	420037.6	3734345	9.79E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
1474	420044.1	3734329	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.31E-06	1.50E-08	8.49E-07	2.90E-06	3.49E-09
1475	420050.6	3734313	1.04E-05	4.75E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.59E-09
1476	420095.8	3734202	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.71E-06	4.46E-09
1477	420102.3	3734186	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1478	420108.8	3734170	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
1479	420121.7	3734138	1.40E-05	6.41E-05	1.40E-07	1.92E-06	8.76E-06	2.09E-08	1.18E-06	4.03E-06	4.84E-09
1480	420128.2	3734122	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
1481	420147.6	3734075	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
1482	420154	3734059	1.42E-05	6.50E-05	1.42E-07	1.95E-06	8.89E-06	2.12E-08	1.20E-06	4.09E-06	4.92E-09
1483	420167	3734027	1.39E-05	6.35E-05	1.39E-07	1.90E-06	8.68E-06	2.07E-08	1.17E-06	3.99E-06	4.80E-09
1484	420173.4	3734011	1.36E-05	6.23E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
1485	420179.9	3733995	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
1486	420213.7	3733928	1.18E-05	5.42E-05	1.18E-07	1.62E-06	7.41E-06	1.76E-08	9.97E-07	3.40E-06	4.09E-09
1487	420229.6	3733922	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
1488	420269.4	3733906	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.76E-07	3.33E-06	4.01E-09
1489	420285.3	3733899	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.16E-06	1.71E-08	9.64E-07	3.29E-06	3.96E-09
1490	420317.1	3733886	1.11E-05	5.08E-05	1.11E-07	1.52E-06	6.95E-06	1.65E-08	9.35E-07	3.19E-06	3.84E-09
1491	420333	3733880	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.82E-06	1.62E-08	9.18E-07	3.14E-06	3.77E-09
1492	420364.8	3733867	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
1493	420396.6	3733854	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
1494	420412.5	3733847	9.97E-06	4.56E-05	9.96E-08	1.37E-06	6.23E-06	1.48E-08	8.39E-07	2.86E-06	3.44E-09
1495	420428.4	3733841	9.81E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
1496	420444.3	3733834	9.67E-06	4.42E-05	9.66E-08	1.33E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
1497	420460.2	3733828	9.54E-06	4.36E-05	9.54E-08	1.31E-06	5.96E-06	1.42E-08	8.03E-07	2.74E-06	3.30E-09
1498	420476.1	3733821	9.43E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1499	420492	3733815	9.33E-06	4.27E-05	9.33E-08	1.28E-06	5.83E-06	1.39E-08	7.85E-07	2.68E-06	3.22E-09
1500	420571.5	3733782	9.04E-06	4.13E-05	9.04E-08	1.24E-06	5.65E-06	1.35E-08	7.61E-07	2.60E-06	3.12E-09
1501	420587.4	3733776	9.00E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
1502	420603.2	3733769	8.97E-06	4.10E-05	8.97E-08	1.23E-06	5.61E-06	1.34E-08	7.55E-07	2.58E-06	3.10E-09
1503	420024.7	3734377	9.23E-06	4.22E-05	9.23E-08	1.27E-06	5.77E-06	1.37E-08	7.77E-07	2.65E-06	3.19E-09
1504	420024.9	3734394	9.16E-06	4.19E-05	9.15E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.16E-09
1505	419988	3734370	8.26E-06	3.78E-05	8.26E-08	1.13E-06	5.17E-06	1.23E-08	6.95E-07	2.37E-06	2.86E-09
1506	419994.5	3734353	8.49E-06	3.88E-05	8.49E-08	1.16E-06	5.31E-06	1.26E-08	7.15E-07	2.44E-06	2.94E-09
1507	420001	3734337	8.73E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
1508	420007.6	3734321	8.99E-06	4.11E-05	8.98E-08	1.23E-06	5.62E-06	1.34E-08	7.56E-07	2.58E-06	3.11E-09
1509	420059.8	3734193	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
1510	420066.4	3734177	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
1511	420079.4	3734144	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
1512	420086	3734128	1.24E-05	5.69E-05	1.24E-07	1.71E-06	7.78E-06	1.85E-08	1.05E-06	3.58E-06	4.30E-09
1513	420092.5	3734112	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
1514	420099	3734096	1.28E-05	5.83E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.41E-09
1515	420105.6	3734080	1.28E-05	5.86E-05	1.28E-07	1.76E-06	8.02E-06	1.91E-08	1.08E-06	3.69E-06	4.43E-09
1516	420112.1	3734064	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.03E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
1517	420125.2	3734032	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
1518	420131.7	3734016	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
1519	420138.3	3734000	1.24E-05	5.69E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.30E-09
1520	420144.8	3733984	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
1521	420151.3	3733968	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.13E-09
1522	420157.9	3733952	1.17E-05	5.34E-05	1.17E-07	1.60E-06	7.30E-06	1.74E-08	9.83E-07	3.36E-06	4.04E-09
1523	420170.9	3733919	1.10E-05	5.05E-05	1.10E-07	1.51E-06	6.91E-06	1.64E-08	9.29E-07	3.17E-06	3.82E-09
1524	420185.5	3733900	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
1525	420201.6	3733893	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.67E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
1526	420241.7	3733877	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.82E-07	3.01E-06	3.62E-09
1527	420289.9	3733857	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1528	420306	3733851	9.90E-06	4.53E-05	9.89E-08	1.36E-06	6.19E-06	1.47E-08	8.33E-07	2.84E-06	3.42E-09
1529	420338.1	3733838	9.55E-06	4.37E-05	9.55E-08	1.31E-06	5.97E-06	1.42E-08	8.04E-07	2.75E-06	3.30E-09
1530	420402.4	3733811	8.92E-06	4.08E-05	8.91E-08	1.22E-06	5.58E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09

1531	420418.4	3733805	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
1532	420434.5	3733798	8.67E-06	3.96E-05	8.66E-08	1.19E-06	5.42E-06	1.29E-08	7.29E-07	2.49E-06	3.00E-09
1533	420450.6	3733792	8.56E-06	3.92E-05	8.56E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
1534	420466.6	3733785	8.47E-06	3.87E-05	8.47E-08	1.16E-06	5.30E-06	1.26E-08	7.13E-07	2.43E-06	2.93E-09
1535	420555	3733749	8.18E-06	3.74E-05	8.17E-08	1.12E-06	5.11E-06	1.22E-08	6.88E-07	2.35E-06	2.83E-09
1536	420571	3733742	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1537	420587.1	3733736	8.13E-06	3.72E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1538	420603.2	3733729	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1539	420619.2	3733723	8.09E-06	3.70E-05	8.08E-08	1.11E-06	5.06E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1540	419984.8	3734386	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1541	419985	3734404	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1542	419947.9	3734370	7.35E-06	3.36E-05	7.35E-08	1.01E-06	4.60E-06	1.09E-08	6.19E-07	2.11E-06	2.54E-09
1543	419954.4	3734354	7.55E-06	3.45E-05	7.54E-08	1.03E-06	4.72E-06	1.12E-08	6.35E-07	2.17E-06	2.61E-09
1544	419960.9	3734338	7.74E-06	3.54E-05	7.74E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
1545	419967.4	3734322	7.95E-06	3.63E-05	7.94E-08	1.09E-06	4.97E-06	1.18E-08	6.68E-07	2.28E-06	2.75E-09
1546	419973.9	3734306	8.16E-06	3.73E-05	8.16E-08	1.12E-06	5.10E-06	1.22E-08	6.87E-07	2.35E-06	2.82E-09
1547	419980.4	3734290	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1548	419993.4	3734258	8.89E-06	4.06E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.55E-06	3.07E-09
1549	419999.9	3734242	9.15E-06	4.19E-05	9.15E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
1550	420006.4	3734226	9.43E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1551	420012.8	3734210	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
1552	420019.3	3734194	9.97E-06	4.56E-05	9.97E-08	1.37E-06	6.23E-06	1.48E-08	8.39E-07	2.87E-06	3.45E-09
1553	420038.8	3734147	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
1554	420045.3	3734131	1.10E-05	5.01E-05	1.10E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
1555	420051.8	3734115	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
1556	420058.3	3734099	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
1557	420064.8	3734083	1.15E-05	5.24E-05	1.14E-07	1.57E-06	7.16E-06	1.71E-08	9.64E-07	3.29E-06	3.96E-09
1558	420071.3	3734067	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
1559	420090.7	3734019	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
1560	420097.2	3734003	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
1561	420103.7	3733987	1.13E-05	5.19E-05	1.13E-07	1.56E-06	7.10E-06	1.69E-08	9.55E-07	3.26E-06	3.92E-09
1562	420110.2	3733971	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.42E-07	3.22E-06	3.87E-09
1563	420116.7	3733955	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.88E-06	1.64E-08	9.26E-07	3.16E-06	3.80E-09
1564	420142.7	3733891	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.26E-06	1.49E-08	8.42E-07	2.88E-06	3.46E-09
1565	420157.1	3733872	9.72E-06	4.44E-05	9.71E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
1566	420173.1	3733865	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
1567	420189	3733859	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
1568	420205	3733852	9.59E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
1569	420220.9	3733846	9.50E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
1570	420236.9	3733839	9.39E-06	4.29E-05	9.39E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.24E-09
1571	420316.7	3733807	8.68E-06	3.97E-05	8.68E-08	1.19E-06	5.43E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
1572	420332.6	3733800	8.53E-06	3.90E-05	8.53E-08	1.17E-06	5.33E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
1573	420348.6	3733793	8.39E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1574	420388.5	3733777	8.07E-06	3.69E-05	8.06E-08	1.11E-06	5.04E-06	1.20E-08	6.79E-07	2.32E-06	2.79E-09
1575	420404.4	3733771	7.96E-06	3.64E-05	7.95E-08	1.09E-06	4.98E-06	1.18E-08	6.70E-07	2.29E-06	2.75E-09
1576	420420.4	3733764	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
1577	420436.4	3733758	7.77E-06	3.55E-05	7.76E-08	1.06E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.68E-09
1578	420452.3	3733751	7.69E-06	3.52E-05	7.69E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
1579	420468.3	3733745	7.63E-06	3.49E-05	7.62E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
1580	420548	3733712	7.43E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.25E-07	2.14E-06	2.57E-09
1581	420564	3733705	7.41E-06	3.39E-05	7.41E-08	1.02E-06	4.63E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1582	420580	3733699	7.40E-06	3.38E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1583	420595.9	3733692	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1584	420611.9	3733686	7.37E-06	3.37E-05	7.37E-08	1.01E-06	4.61E-06	1.10E-08	6.20E-07	2.12E-06	2.55E-09
1585	419944.8	3734387	7.24E-06	3.31E-05	7.23E-08	9.92E-07	4.52E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
1586	419945	3734404	7.18E-06	3.28E-05	7.18E-08	9.84E-07	4.49E-06	1.07E-08	6.04E-07	2.06E-06	2.48E-09
1587	420639.9	3734404	9.63E-04	4.40E-03	9.62E-06	1.32E-04	6.02E-04	1.43E-06	8.10E-05	2.77E-04	3.33E-07
1588	420648.3	3734409	1.23E-03	5.62E-03	1.23E-05	1.69E-04	7.69E-04	1.83E-06	1.03E-04	3.53E-04	4.25E-07
1589	420656.6	3734414	1.63E-03	7.46E-03	1.63E-05	2.24E-04	1.02E-03	2.43E-06	1.37E-04	4.69E-04	5.64E-07

1590	420665	3734419	2.28E-03	1.04E-02	2.27E-05	3.12E-04	1.42E-03	3.39E-06	1.91E-04	6.54E-04	7.87E-07
1591	420673.3	3734424	3.36E-03	1.54E-02	3.36E-05	4.61E-04	2.10E-03	5.00E-06	2.83E-04	9.65E-04	1.16E-06
1592	420643.3	3734418	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.35E-07
1593	420651.6	3734423	1.67E-03	7.64E-03	1.67E-05	2.29E-04	1.04E-03	2.49E-06	1.40E-04	4.80E-04	5.77E-07
1594	420660	3734427	2.32E-03	1.06E-02	2.32E-05	3.18E-04	1.45E-03	3.45E-06	1.95E-04	6.66E-04	8.01E-07
1595	420668.3	3734432	3.39E-03	1.55E-02	3.39E-05	4.65E-04	2.12E-03	5.05E-06	2.85E-04	9.74E-04	1.17E-06
1596	420638.3	3734426	1.24E-03	5.67E-03	1.24E-05	1.70E-04	7.76E-04	1.85E-06	1.04E-04	3.57E-04	4.29E-07
1597	420646.6	3734431	1.63E-03	7.45E-03	1.63E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.68E-04	5.63E-07
1598	420654.9	3734436	2.22E-03	1.02E-02	2.22E-05	3.05E-04	1.39E-03	3.31E-06	1.87E-04	6.39E-04	7.69E-07
1599	420663.3	3734441	3.19E-03	1.46E-02	3.19E-05	4.37E-04	1.99E-03	4.75E-06	2.68E-04	9.16E-04	1.10E-06
1600	420608.6	3734409	5.93E-04	2.71E-03	5.93E-06	8.13E-05	3.71E-04	8.83E-07	4.99E-05	1.70E-04	2.05E-07
1601	420641.6	3734440	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.62E-04	2.29E-06	1.29E-04	4.42E-04	5.32E-07
1602	420649.9	3734445	2.06E-03	9.43E-03	2.06E-05	2.83E-04	1.29E-03	3.07E-06	1.74E-04	5.93E-04	7.13E-07
1603	420658.3	3734449	2.88E-03	1.32E-02	2.88E-05	3.95E-04	1.80E-03	4.29E-06	2.43E-04	8.28E-04	9.96E-07
1604	420613.8	3734433	7.61E-04	3.48E-03	7.61E-06	1.04E-04	4.76E-04	1.13E-06	6.40E-05	2.19E-04	2.63E-07
1605	420599.5	3734413	5.24E-04	2.39E-03	5.23E-06	7.18E-05	3.27E-04	7.80E-07	4.41E-05	1.51E-04	1.81E-07
1606	420644.9	3734453	1.87E-03	8.55E-03	1.87E-05	2.56E-04	1.17E-03	2.79E-06	1.57E-04	5.38E-04	6.47E-07
1607	420653.2	3734458	2.55E-03	1.16E-02	2.55E-05	3.49E-04	1.59E-03	3.79E-06	2.14E-04	7.32E-04	8.80E-07
1608	420609.4	3734442	7.25E-04	3.32E-03	7.25E-06	9.94E-05	4.53E-04	1.08E-06	6.10E-05	2.08E-04	2.51E-07
1609	420598.6	3734431	5.64E-04	2.58E-03	5.64E-06	7.74E-05	3.53E-04	8.40E-07	4.75E-05	1.62E-04	1.95E-07
1610	420591.1	3734418	4.71E-04	2.16E-03	4.71E-06	6.46E-05	2.95E-04	7.02E-07	3.97E-05	1.35E-04	1.63E-07
1611	420639.9	3734462	1.67E-03	7.63E-03	1.67E-05	2.29E-04	1.04E-03	2.48E-06	1.40E-04	4.79E-04	5.76E-07
1612	420648.2	3734467	2.23E-03	1.02E-02	2.23E-05	3.06E-04	1.40E-03	3.32E-06	1.88E-04	6.41E-04	7.71E-07
1613	420590.9	3734437	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.13E-04	7.46E-07	4.22E-05	1.44E-04	1.73E-07
1614	420582.1	3734422	4.15E-04	1.90E-03	4.14E-06	5.68E-05	2.59E-04	6.17E-07	3.49E-05	1.19E-04	1.43E-07
1615	420579.7	3734414	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.77E-07	3.26E-05	1.11E-04	1.34E-07
1616	420643.2	3734475	1.93E-03	8.82E-03	1.93E-05	2.64E-04	1.21E-03	2.87E-06	1.62E-04	5.54E-04	6.67E-07
1617	420573.7	3734428	3.69E-04	1.69E-03	3.69E-06	5.06E-05	2.31E-04	5.49E-07	3.11E-05	1.06E-04	1.28E-07
1618	420569.3	3734412	3.32E-04	1.52E-03	3.31E-06	4.55E-05	2.07E-04	4.94E-07	2.79E-05	9.53E-05	1.15E-07
1619	420613.2	3734470	8.35E-04	3.82E-03	8.35E-06	1.15E-04	5.22E-04	1.24E-06	7.03E-05	2.40E-04	2.89E-07
1620	420638.2	3734484	1.64E-03	7.52E-03	1.64E-05	2.25E-04	1.03E-03	2.45E-06	1.38E-04	4.72E-04	5.68E-07
1621	420593.3	3734467	5.45E-04	2.49E-03	5.45E-06	7.47E-05	3.41E-04	8.11E-07	4.59E-05	1.57E-04	1.88E-07
1622	420564.8	3734432	3.25E-04	1.49E-03	3.25E-06	4.45E-05	2.03E-04	4.84E-07	2.73E-05	9.34E-05	1.12E-07
1623	420562.3	3734423	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
1624	420559.9	3734414	2.93E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.36E-07	2.46E-05	8.41E-05	1.01E-07
1625	420557.4	3734405	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.32E-05	7.94E-05	9.55E-08
1626	420599.8	3734473	6.21E-04	2.84E-03	6.21E-06	8.52E-05	3.89E-04	9.25E-07	5.23E-05	1.79E-04	2.15E-07
1627	420608.1	3734478	7.43E-04	3.40E-03	7.43E-06	1.02E-04	4.65E-04	1.11E-06	6.25E-05	2.14E-04	2.57E-07
1628	420616.5	3734483	9.00E-04	4.12E-03	9.00E-06	1.23E-04	5.63E-04	1.34E-06	7.57E-05	2.59E-04	3.11E-07
1629	420588.8	3734476	4.97E-04	2.27E-03	4.96E-06	6.81E-05	3.10E-04	7.39E-07	4.18E-05	1.43E-04	1.72E-07
1630	420576.7	3734464	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.38E-05	1.15E-04	1.39E-07
1631	420556.3	3734438	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.80E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
1632	420551.8	3734421	2.66E-04	1.22E-03	2.66E-06	3.64E-05	1.66E-04	3.96E-07	2.24E-05	7.64E-05	9.19E-08
1633	420603.1	3734487	6.56E-04	3.00E-03	6.56E-06	8.99E-05	4.10E-04	9.77E-07	5.52E-05	1.89E-04	2.27E-07
1634	420611.5	3734492	7.84E-04	3.58E-03	7.83E-06	1.07E-04	4.90E-04	1.17E-06	6.59E-05	2.25E-04	2.71E-07
1635	420578.5	3734493	3.99E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.15E-04	1.38E-07
1636	420566.1	3734481	3.30E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.49E-05	1.14E-07
1637	420553.7	3734468	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.32E-05	7.94E-05	9.55E-08
1638	420534.3	3734431	2.13E-04	9.73E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.11E-05	7.35E-08
1639	420529.7	3734414	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.85E-08
1640	420593.1	3734504	5.07E-04	2.32E-03	5.07E-06	6.95E-05	3.17E-04	7.55E-07	4.26E-05	1.46E-04	1.75E-07
1641	420601.4	3734509	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
1642	420609.8	3734514	6.91E-04	3.16E-03	6.91E-06	9.47E-05	4.32E-04	1.03E-06	5.81E-05	1.99E-04	2.39E-07
1643	420568.4	3734510	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
1644	420555.7	3734498	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.80E-05	9.38E-08
1645	420543.1	3734485	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.64E-05	7.99E-08
1646	420530.4	3734472	1.98E-04	9.05E-04	1.98E-06	2.71E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.84E-08
1647	420516.9	3734440	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
1648	420512.1	3734423	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08

1649	420583.1	3734521	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.86E-07	3.31E-05	1.13E-04	1.36E-07
1650	420591.4	3734526	4.47E-04	2.05E-03	4.47E-06	6.13E-05	2.80E-04	6.66E-07	3.76E-05	1.29E-04	1.55E-07
1651	420599.7	3734531	5.10E-04	2.33E-03	5.10E-06	6.99E-05	3.19E-04	7.59E-07	4.29E-05	1.47E-04	1.76E-07
1652	420608.1	3734536	5.84E-04	2.67E-03	5.83E-06	8.00E-05	3.65E-04	8.69E-07	4.91E-05	1.68E-04	2.02E-07
1653	420558.2	3734528	2.60E-04	1.19E-03	2.59E-06	3.56E-05	1.62E-04	3.86E-07	2.18E-05	7.46E-05	8.97E-08
1654	420551.8	3734521	2.42E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.60E-07	2.03E-05	6.94E-05	8.35E-08
1655	420539	3734508	2.09E-04	9.55E-04	2.09E-06	2.86E-05	1.31E-04	3.11E-07	1.76E-05	6.00E-05	7.22E-08
1656	420532.5	3734502	1.94E-04	8.89E-04	1.94E-06	2.67E-05	1.22E-04	2.89E-07	1.64E-05	5.59E-05	6.72E-08
1657	420519.7	3734489	1.69E-04	7.72E-04	1.69E-06	2.31E-05	1.06E-04	2.51E-07	1.42E-05	4.85E-05	5.83E-08
1658	420504.4	3734467	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
1659	420497.1	3734441	1.36E-04	6.23E-04	1.36E-06	1.87E-05	8.52E-05	2.03E-07	1.15E-05	3.91E-05	4.71E-08
1660	420494.7	3734432	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.60E-08
1661	420492.3	3734424	1.30E-04	5.95E-04	1.30E-06	1.78E-05	8.14E-05	1.94E-07	1.09E-05	3.74E-05	4.50E-08
1662	420489.8	3734415	1.27E-04	5.81E-04	1.27E-06	1.74E-05	7.94E-05	1.89E-07	1.07E-05	3.65E-05	4.39E-08
1663	420487.4	3734406	1.24E-04	5.66E-04	1.24E-06	1.70E-05	7.74E-05	1.84E-07	1.04E-05	3.56E-05	4.28E-08
1664	420564.7	3734534	2.79E-04	1.28E-03	2.79E-06	3.82E-05	1.74E-04	4.15E-07	2.35E-05	8.01E-05	9.64E-08
1665	420535.1	3734532	1.87E-04	8.57E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.48E-08
1666	420528.6	3734525	1.76E-04	8.03E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.05E-05	6.07E-08
1667	420522.1	3734519	1.65E-04	7.53E-04	1.65E-06	2.26E-05	1.03E-04	2.45E-07	1.39E-05	4.73E-05	5.69E-08
1668	420515.6	3734512	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.65E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
1669	420509.1	3734506	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.05E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
1670	420502.6	3734499	1.36E-04	6.21E-04	1.36E-06	1.86E-05	8.50E-05	2.02E-07	1.14E-05	3.91E-05	4.70E-08
1671	420496.1	3734493	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
1672	420487.1	3734477	1.18E-04	5.40E-04	1.18E-06	1.62E-05	7.39E-05	1.76E-07	9.94E-06	3.40E-05	4.08E-08
1673	420484.6	3734469	1.16E-04	5.32E-04	1.16E-06	1.59E-05	7.27E-05	1.73E-07	9.79E-06	3.34E-05	4.02E-08
1674	420482.2	3734460	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.15E-05	1.70E-07	9.62E-06	3.29E-05	3.95E-08
1675	420477.3	3734442	1.10E-04	5.05E-04	1.10E-06	1.51E-05	6.90E-05	1.64E-07	9.29E-06	3.17E-05	3.82E-08
1676	420474.8	3734433	1.08E-04	4.95E-04	1.08E-06	1.48E-05	6.77E-05	1.61E-07	9.11E-06	3.11E-05	3.74E-08
1677	420472.3	3734424	1.06E-04	4.86E-04	1.06E-06	1.46E-05	6.64E-05	1.58E-07	8.93E-06	3.05E-05	3.67E-08
1678	420469.9	3734415	1.04E-04	4.76E-04	1.04E-06	1.43E-05	6.50E-05	1.55E-07	8.75E-06	2.99E-05	3.60E-08
1679	420467.4	3734407	1.02E-04	4.65E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.57E-06	2.93E-05	3.52E-08
1680	420579.7	3734566	2.98E-04	1.36E-03	2.98E-06	4.08E-05	1.86E-04	4.44E-07	2.51E-05	8.56E-05	1.03E-07
1681	420588	3734571	3.26E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.38E-05	1.13E-07
1682	420538	3734562	1.76E-04	8.04E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.05E-05	6.08E-08
1683	420511.7	3734536	1.40E-04	6.42E-04	1.40E-06	1.93E-05	8.78E-05	2.09E-07	1.18E-05	4.04E-05	4.85E-08
1684	420505.1	3734529	1.33E-04	6.06E-04	1.32E-06	1.82E-05	8.29E-05	1.97E-07	1.12E-05	3.81E-05	4.58E-08
1685	420498.6	3734523	1.25E-04	5.72E-04	1.25E-06	1.71E-05	7.82E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
1686	420492	3734516	1.18E-04	5.39E-04	1.18E-06	1.62E-05	7.38E-05	1.76E-07	9.92E-06	3.39E-05	4.08E-08
1687	420485.4	3734510	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.96E-05	1.66E-07	9.37E-06	3.20E-05	3.85E-08
1688	420478.8	3734503	1.05E-04	4.81E-04	1.05E-06	1.44E-05	6.57E-05	1.56E-07	8.84E-06	3.02E-05	3.63E-08
1689	420469.8	3734487	9.80E-05	4.48E-04	9.80E-07	1.34E-05	6.13E-05	1.46E-07	8.25E-06	2.82E-05	3.39E-08
1690	420467.3	3734479	9.67E-05	4.42E-04	9.66E-07	1.32E-05	6.04E-05	1.44E-07	8.13E-06	2.78E-05	3.34E-08
1691	420464.8	3734470	9.53E-05	4.36E-04	9.52E-07	1.31E-05	5.96E-05	1.42E-07	8.02E-06	2.74E-05	3.29E-08
1692	420462.3	3734461	9.39E-05	4.29E-04	9.38E-07	1.29E-05	5.87E-05	1.40E-07	7.90E-06	2.70E-05	3.24E-08
1693	420457.4	3734443	9.09E-05	4.16E-04	9.09E-07	1.25E-05	5.69E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
1694	420454.9	3734434	8.94E-05	4.09E-04	8.94E-07	1.23E-05	5.59E-05	1.33E-07	7.52E-06	2.57E-05	3.09E-08
1695	420452.4	3734425	8.79E-05	4.02E-04	8.79E-07	1.21E-05	5.50E-05	1.31E-07	7.40E-06	2.53E-05	3.04E-08
1696	420449.9	3734416	8.64E-05	3.95E-04	8.63E-07	1.18E-05	5.40E-05	1.29E-07	7.27E-06	2.48E-05	2.99E-08
1697	420447.5	3734407	8.48E-05	3.88E-04	8.48E-07	1.16E-05	5.30E-05	1.26E-07	7.14E-06	2.44E-05	2.93E-08
1698	420544.6	3734569	1.85E-04	8.47E-04	1.85E-06	2.54E-05	1.16E-04	2.76E-07	1.56E-05	5.33E-05	6.40E-08
1699	420569.6	3734583	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
1700	420578	3734588	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.13E-05	7.29E-05	8.76E-08
1701	420527.9	3734579	1.47E-04	6.71E-04	1.47E-06	2.01E-05	9.17E-05	2.18E-07	1.23E-05	4.22E-05	5.07E-08
1702	420521.3	3734573	1.40E-04	6.40E-04	1.40E-06	1.92E-05	8.75E-05	2.08E-07	1.18E-05	4.02E-05	4.84E-08
1703	420514.7	3734566	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.61E-08
1704	420481.5	3734533	1.03E-04	4.71E-04	1.03E-06	1.41E-05	6.44E-05	1.53E-07	8.66E-06	2.96E-05	3.56E-08
1705	420474.9	3734526	9.76E-05	4.46E-04	9.76E-07	1.34E-05	6.10E-05	1.45E-07	8.21E-06	2.80E-05	3.37E-08
1706	420468.3	3734520	9.26E-05	4.23E-04	9.25E-07	1.27E-05	5.79E-05	1.38E-07	7.79E-06	2.66E-05	3.20E-08
1707	420461.6	3734513	8.78E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.52E-05	3.03E-08

1708	420452.5	3734497	8.24E-05	3.77E-04	8.23E-07	1.13E-05	5.15E-05	1.23E-07	6.93E-06	2.37E-05	2.85E-08
1709	420450	3734488	8.13E-05	3.72E-04	8.13E-07	1.11E-05	5.08E-05	1.21E-07	6.84E-06	2.34E-05	2.81E-08
1710	420447.5	3734479	8.03E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
1711	420445	3734470	7.93E-05	3.62E-04	7.92E-07	1.09E-05	4.96E-05	1.18E-07	6.67E-06	2.28E-05	2.74E-08
1712	420534.6	3734586	1.53E-04	7.02E-04	1.53E-06	2.10E-05	9.59E-05	2.28E-07	1.29E-05	4.41E-05	5.30E-08
1713	420542.9	3734591	1.65E-04	7.52E-04	1.64E-06	2.26E-05	1.03E-04	2.45E-07	1.38E-05	4.73E-05	5.68E-08
1714	420551.2	3734595	1.76E-04	8.05E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.06E-05	6.09E-08
1715	420517.9	3734596	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.54E-05	4.26E-08
1716	420511.2	3734590	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
1717	420504.5	3734583	1.14E-04	5.19E-04	1.13E-06	1.56E-05	7.10E-05	1.69E-07	9.55E-06	3.26E-05	3.92E-08
1718	420497.8	3734576	1.09E-04	4.97E-04	1.09E-06	1.49E-05	6.80E-05	1.62E-07	9.15E-06	3.12E-05	3.76E-08
1719	420491.1	3734570	1.04E-04	4.75E-04	1.04E-06	1.42E-05	6.50E-05	1.55E-07	8.74E-06	2.99E-05	3.59E-08
1720	420484.5	3734563	9.92E-05	4.54E-04	9.92E-07	1.36E-05	6.21E-05	1.48E-07	8.35E-06	2.85E-05	3.43E-08
1721	420457.8	3734537	8.19E-05	3.74E-04	8.19E-07	1.12E-05	5.12E-05	1.22E-07	6.89E-06	2.35E-05	2.83E-08
1722	420451.1	3734530	7.80E-05	3.57E-04	7.80E-07	1.07E-05	4.88E-05	1.16E-07	6.56E-06	2.24E-05	2.70E-08
1723	420444.4	3734523	7.43E-05	3.40E-04	7.42E-07	1.02E-05	4.64E-05	1.11E-07	6.25E-06	2.13E-05	2.57E-08
1724	420425.1	3734471	6.68E-05	3.05E-04	6.68E-07	9.16E-06	4.18E-05	9.94E-08	5.62E-06	1.92E-05	2.31E-08
1725	420422.6	3734462	6.60E-05	3.02E-04	6.59E-07	9.04E-06	4.12E-05	9.82E-08	5.55E-06	1.90E-05	2.28E-08
1726	420415.1	3734435	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
1727	420412.5	3734426	6.26E-05	2.86E-04	6.26E-07	8.58E-06	3.91E-05	9.32E-08	5.27E-06	1.80E-05	2.16E-08
1728	420410	3734417	6.18E-05	2.82E-04	6.17E-07	8.47E-06	3.86E-05	9.19E-08	5.20E-06	1.77E-05	2.13E-08
1729	420407.5	3734408	6.09E-05	2.78E-04	6.09E-07	8.35E-06	3.81E-05	9.07E-08	5.12E-06	1.75E-05	2.10E-08
1730	420524.5	3734603	1.28E-04	5.86E-04	1.28E-06	1.76E-05	8.02E-05	1.91E-07	1.08E-05	3.68E-05	4.43E-08
1731	420532.9	3734608	1.36E-04	6.24E-04	1.36E-06	1.87E-05	8.53E-05	2.03E-07	1.15E-05	3.92E-05	4.71E-08
1732	420541.2	3734613	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
1733	420549.6	3734618	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.61E-05	2.29E-07	1.29E-05	4.42E-05	5.31E-08
1734	420507.8	3734614	1.05E-04	4.79E-04	1.05E-06	1.43E-05	6.54E-05	1.56E-07	8.81E-06	3.01E-05	3.62E-08
1735	420501.1	3734607	1.01E-04	4.62E-04	1.01E-06	1.39E-05	6.32E-05	1.50E-07	8.50E-06	2.90E-05	3.49E-08
1736	420494.3	3734600	9.74E-05	4.45E-04	9.74E-07	1.34E-05	6.09E-05	1.45E-07	8.20E-06	2.80E-05	3.37E-08
1737	420487.6	3734594	9.38E-05	4.29E-04	9.37E-07	1.29E-05	5.86E-05	1.40E-07	7.89E-06	2.69E-05	3.24E-08
1738	420480.9	3734587	9.01E-05	4.12E-04	9.01E-07	1.24E-05	5.63E-05	1.34E-07	7.58E-06	2.59E-05	3.11E-08
1739	420474.2	3734580	8.65E-05	3.95E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
1740	420467.5	3734574	8.29E-05	3.79E-04	8.29E-07	1.14E-05	5.18E-05	1.23E-07	6.98E-06	2.38E-05	2.87E-08
1741	420460.8	3734567	7.94E-05	3.63E-04	7.94E-07	1.09E-05	4.96E-05	1.18E-07	6.68E-06	2.28E-05	2.74E-08
1742	420454	3734560	7.60E-05	3.47E-04	7.60E-07	1.04E-05	4.75E-05	1.13E-07	6.39E-06	2.18E-05	2.63E-08
1743	420427.2	3734533	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
1744	420417.9	3734518	6.01E-05	2.75E-04	6.01E-07	8.24E-06	3.76E-05	8.95E-08	5.06E-06	1.73E-05	2.08E-08
1745	420415.4	3734508	5.95E-05	2.72E-04	5.95E-07	8.16E-06	3.72E-05	8.86E-08	5.01E-06	1.71E-05	2.06E-08
1746	420412.9	3734499	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
1747	420410.3	3734490	5.83E-05	2.66E-04	5.82E-07	7.99E-06	3.64E-05	8.68E-08	4.90E-06	1.67E-05	2.01E-08
1748	420407.8	3734481	5.76E-05	2.63E-04	5.76E-07	7.90E-06	3.60E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
1749	420405.3	3734472	5.70E-05	2.60E-04	5.69E-07	7.81E-06	3.56E-05	8.48E-08	4.79E-06	1.64E-05	1.97E-08
1750	420402.7	3734463	5.63E-05	2.57E-04	5.63E-07	7.72E-06	3.52E-05	8.38E-08	4.74E-06	1.62E-05	1.95E-08
1751	420395.1	3734435	5.44E-05	2.49E-04	5.43E-07	7.45E-06	3.40E-05	8.09E-08	4.57E-06	1.56E-05	1.88E-08
1752	420392.6	3734426	5.37E-05	2.46E-04	5.37E-07	7.36E-06	3.36E-05	7.99E-08	4.52E-06	1.54E-05	1.86E-08
1753	420390.1	3734417	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
1754	420387.5	3734408	5.24E-05	2.40E-04	5.24E-07	7.18E-06	3.28E-05	7.80E-08	4.41E-06	1.51E-05	1.81E-08
1755	420514.5	3734620	1.08E-04	4.95E-04	1.08E-06	1.48E-05	6.77E-05	1.61E-07	9.11E-06	3.11E-05	3.74E-08
1756	420522.8	3734625	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.16E-05	1.70E-07	9.63E-06	3.29E-05	3.96E-08
1757	420531.2	3734630	1.21E-04	5.52E-04	1.21E-06	1.66E-05	7.55E-05	1.80E-07	1.02E-05	3.47E-05	4.18E-08
1758	420539.5	3734635	1.27E-04	5.82E-04	1.27E-06	1.75E-05	7.96E-05	1.90E-07	1.07E-05	3.66E-05	4.40E-08
1759	420497.7	3734631	8.98E-05	4.10E-04	8.97E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
1760	420491	3734624	8.70E-05	3.98E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.32E-06	2.50E-05	3.01E-08
1761	420484.2	3734618	8.42E-05	3.85E-04	8.42E-07	1.15E-05	5.26E-05	1.25E-07	7.08E-06	2.42E-05	2.91E-08
1762	420477.5	3734611	8.14E-05	3.72E-04	8.14E-07	1.12E-05	5.09E-05	1.21E-07	6.85E-06	2.34E-05	2.81E-08
1763	420470.7	3734604	7.86E-05	3.59E-04	7.85E-07	1.08E-05	4.91E-05	1.17E-07	6.61E-06	2.26E-05	2.72E-08
1764	420464	3734597	7.57E-05	3.46E-04	7.57E-07	1.04E-05	4.74E-05	1.13E-07	6.37E-06	2.18E-05	2.62E-08
1765	420457.2	3734591	7.29E-05	3.33E-04	7.29E-07	1.00E-05	4.56E-05	1.09E-07	6.14E-06	2.10E-05	2.52E-08
1766	420450.4	3734584	7.01E-05	3.21E-04	7.01E-07	9.62E-06	4.39E-05	1.04E-07	5.90E-06	2.02E-05	2.42E-08

1767	420443.7	3734577	6.74E-05	3.08E-04	6.74E-07	9.24E-06	4.21E-05	1.00E-07	5.67E-06	1.94E-05	2.33E-08
1768	420436.9	3734570	6.47E-05	2.96E-04	6.47E-07	8.87E-06	4.05E-05	9.63E-08	5.44E-06	1.86E-05	2.24E-08
1769	420400.6	3734528	5.21E-05	2.38E-04	5.20E-07	7.14E-06	3.25E-05	7.75E-08	4.38E-06	1.50E-05	1.80E-08
1770	420398.1	3734518	5.16E-05	2.36E-04	5.16E-07	7.07E-06	3.23E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
1771	420395.6	3734509	5.11E-05	2.34E-04	5.11E-07	7.01E-06	3.20E-05	7.61E-08	4.30E-06	1.47E-05	1.77E-08
1772	420393	3734500	5.06E-05	2.32E-04	5.06E-07	6.94E-06	3.17E-05	7.54E-08	4.26E-06	1.46E-05	1.75E-08
1773	420390.5	3734491	5.01E-05	2.29E-04	5.01E-07	6.87E-06	3.13E-05	7.46E-08	4.22E-06	1.44E-05	1.73E-08
1774	420387.9	3734482	4.96E-05	2.27E-04	4.96E-07	6.80E-06	3.10E-05	7.38E-08	4.17E-06	1.43E-05	1.71E-08
1775	420385.4	3734472	4.91E-05	2.24E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
1776	420382.8	3734463	4.86E-05	2.22E-04	4.85E-07	6.66E-06	3.04E-05	7.23E-08	4.09E-06	1.40E-05	1.68E-08
1777	420375.2	3734436	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	7.00E-08	3.95E-06	1.35E-05	1.62E-08
1778	420372.6	3734427	4.65E-05	2.13E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
1779	420370.1	3734417	4.60E-05	2.10E-04	4.60E-07	6.30E-06	2.88E-05	6.85E-08	3.87E-06	1.32E-05	1.59E-08
1780	420367.5	3734408	4.55E-05	2.08E-04	4.55E-07	6.23E-06	2.84E-05	6.77E-08	3.83E-06	1.31E-05	1.57E-08
1781	420537.8	3734657	1.12E-04	5.11E-04	1.12E-06	1.53E-05	6.99E-05	1.66E-07	9.41E-06	3.21E-05	3.86E-08
1782	420474.1	3734635	7.32E-05	3.35E-04	7.32E-07	1.00E-05	4.58E-05	1.09E-07	6.16E-06	2.10E-05	2.53E-08
1783	420467.3	3734628	7.11E-05	3.25E-04	7.10E-07	9.74E-06	4.44E-05	1.06E-07	5.98E-06	2.04E-05	2.46E-08
1784	420460.5	3734621	6.88E-05	3.15E-04	6.88E-07	9.44E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
1785	420453.7	3734614	6.66E-05	3.05E-04	6.66E-07	9.13E-06	4.17E-05	9.92E-08	5.61E-06	1.91E-05	2.30E-08
1786	420447	3734608	6.44E-05	2.94E-04	6.44E-07	8.83E-06	4.03E-05	9.59E-08	5.42E-06	1.85E-05	2.23E-08
1787	420440.2	3734601	6.22E-05	2.84E-04	6.21E-07	8.52E-06	3.89E-05	9.25E-08	5.23E-06	1.79E-05	2.15E-08
1788	420413	3734574	5.35E-05	2.45E-04	5.35E-07	7.34E-06	3.35E-05	7.97E-08	4.50E-06	1.54E-05	1.85E-08
1789	420406.3	3734567	5.15E-05	2.35E-04	5.14E-07	7.06E-06	3.22E-05	7.66E-08	4.33E-06	1.48E-05	1.78E-08
1790	420399.5	3734560	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.09E-05	7.37E-08	4.16E-06	1.42E-05	1.71E-08
1791	420383.4	3734538	4.54E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.76E-08	3.82E-06	1.31E-05	1.57E-08
1792	420380.8	3734528	4.51E-05	2.06E-04	4.51E-07	6.18E-06	2.82E-05	6.71E-08	3.79E-06	1.30E-05	1.56E-08
1793	420378.2	3734519	4.47E-05	2.04E-04	4.47E-07	6.13E-06	2.80E-05	6.66E-08	3.76E-06	1.28E-05	1.55E-08
1794	420375.7	3734510	4.43E-05	2.03E-04	4.43E-07	6.08E-06	2.77E-05	6.60E-08	3.73E-06	1.27E-05	1.53E-08
1795	420373.1	3734501	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.75E-05	6.54E-08	3.70E-06	1.26E-05	1.52E-08
1796	420370.6	3734491	4.35E-05	1.99E-04	4.35E-07	5.96E-06	2.72E-05	6.48E-08	3.66E-06	1.25E-05	1.50E-08
1797	420368	3734482	4.31E-05	1.97E-04	4.31E-07	5.91E-06	2.69E-05	6.41E-08	3.62E-06	1.24E-05	1.49E-08
1798	420365.5	3734473	4.27E-05	1.95E-04	4.26E-07	5.85E-06	2.67E-05	6.35E-08	3.59E-06	1.23E-05	1.47E-08
1799	420362.9	3734464	4.22E-05	1.93E-04	4.22E-07	5.79E-06	2.64E-05	6.29E-08	3.55E-06	1.21E-05	1.46E-08
1800	420355.2	3734436	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
1801	420352.7	3734427	4.06E-05	1.86E-04	4.06E-07	5.56E-06	2.54E-05	6.04E-08	3.41E-06	1.17E-05	1.40E-08
1802	420350.1	3734418	4.02E-05	1.84E-04	4.02E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
1803	420347.5	3734408	3.98E-05	1.82E-04	3.98E-07	5.45E-06	2.49E-05	5.92E-08	3.35E-06	1.14E-05	1.37E-08
1804	420502.8	3734660	8.33E-05	3.81E-04	8.33E-07	1.14E-05	5.21E-05	1.24E-07	7.01E-06	2.39E-05	2.88E-08
1805	420511.1	3734665	8.71E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.33E-06	2.50E-05	3.01E-08
1806	420519.4	3734670	9.08E-05	4.15E-04	9.08E-07	1.24E-05	5.68E-05	1.35E-07	7.64E-06	2.61E-05	3.14E-08
1807	420527.8	3734674	9.45E-05	4.32E-04	9.45E-07	1.30E-05	5.91E-05	1.41E-07	7.95E-06	2.72E-05	3.27E-08
1808	420467.9	3734683	5.94E-05	2.71E-04	5.93E-07	8.14E-06	3.71E-05	8.83E-08	4.99E-06	1.71E-05	2.05E-08
1809	420461.4	3734677	5.81E-05	2.66E-04	5.80E-07	7.96E-06	3.63E-05	8.64E-08	4.89E-06	1.67E-05	2.01E-08
1810	420454.9	3734670	5.65E-05	2.59E-04	5.65E-07	7.75E-06	3.53E-05	8.42E-08	4.76E-06	1.62E-05	1.95E-08
1811	420448.5	3734664	5.52E-05	2.53E-04	5.52E-07	7.57E-06	3.45E-05	8.22E-08	4.65E-06	1.59E-05	1.91E-08
1812	420416.1	3734632	4.86E-05	2.22E-04	4.86E-07	6.66E-06	3.04E-05	7.23E-08	4.09E-06	1.40E-05	1.68E-08
1813	420409.6	3734625	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.03E-08	3.97E-06	1.36E-05	1.63E-08
1814	420396.7	3734612	4.45E-05	2.03E-04	4.44E-07	6.09E-06	2.78E-05	6.62E-08	3.74E-06	1.28E-05	1.54E-08
1815	420390.2	3734606	4.31E-05	1.97E-04	4.31E-07	5.91E-06	2.69E-05	6.42E-08	3.63E-06	1.24E-05	1.49E-08
1816	420383.7	3734599	4.18E-05	1.91E-04	4.17E-07	5.73E-06	2.61E-05	6.22E-08	3.51E-06	1.20E-05	1.44E-08
1817	420377.3	3734593	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
1818	420370.8	3734586	3.92E-05	1.79E-04	3.92E-07	5.37E-06	2.45E-05	5.83E-08	3.30E-06	1.13E-05	1.35E-08
1819	420357.9	3734573	3.67E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
1820	420341.6	3734532	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.97E-06	1.20E-08
1821	420339.2	3734523	3.45E-05	1.58E-04	3.44E-07	4.72E-06	2.15E-05	5.13E-08	2.90E-06	9.90E-06	1.19E-08
1822	420336.7	3734514	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
1823	420334.3	3734505	3.40E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.76E-06	1.17E-08
1824	420331.9	3734497	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.01E-08	2.83E-06	9.68E-06	1.16E-08
1825	420329.4	3734488	3.34E-05	1.53E-04	3.34E-07	4.58E-06	2.09E-05	4.98E-08	2.81E-06	9.60E-06	1.16E-08

1826	420327	3734479	3.32E-05	1.52E-04	3.31E-07	4.55E-06	2.07E-05	4.94E-08	2.79E-06	9.53E-06	1.15E-08
1827	420324.5	3734470	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.45E-06	1.14E-08
1828	420322.1	3734461	3.26E-05	1.49E-04	3.26E-07	4.47E-06	2.04E-05	4.86E-08	2.74E-06	9.38E-06	1.13E-08
1829	420317.2	3734444	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.22E-06	1.11E-08
1830	420314.8	3734435	3.18E-05	1.46E-04	3.18E-07	4.36E-06	1.99E-05	4.74E-08	2.68E-06	9.15E-06	1.10E-08
1831	420312.3	3734426	3.16E-05	1.44E-04	3.16E-07	4.33E-06	1.97E-05	4.70E-08	2.66E-06	9.07E-06	1.09E-08
1832	420309.9	3734417	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.63E-06	8.99E-06	1.08E-08
1833	420307.4	3734409	3.10E-05	1.42E-04	3.10E-07	4.25E-06	1.94E-05	4.62E-08	2.61E-06	8.92E-06	1.07E-08
1834	420482.7	3734694	6.29E-05	2.88E-04	6.29E-07	8.62E-06	3.93E-05	9.36E-08	5.29E-06	1.81E-05	2.17E-08
1835	420491	3734699	6.52E-05	2.98E-04	6.52E-07	8.94E-06	4.08E-05	9.71E-08	5.49E-06	1.87E-05	2.25E-08
1836	420499.4	3734704	6.75E-05	3.08E-04	6.74E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
1837	420507.7	3734709	6.97E-05	3.19E-04	6.97E-07	9.56E-06	4.36E-05	1.04E-07	5.87E-06	2.00E-05	2.41E-08
1838	420447.7	3734718	4.66E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
1839	420441.2	3734711	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
1840	420434.6	3734705	4.49E-05	2.05E-04	4.49E-07	6.15E-06	2.81E-05	6.68E-08	3.78E-06	1.29E-05	1.55E-08
1841	420415	3734685	4.21E-05	1.93E-04	4.21E-07	5.78E-06	2.63E-05	6.27E-08	3.54E-06	1.21E-05	1.46E-08
1842	420408.5	3734679	4.12E-05	1.88E-04	4.12E-07	5.65E-06	2.57E-05	6.13E-08	3.46E-06	1.18E-05	1.42E-08
1843	420401.9	3734672	4.02E-05	1.84E-04	4.02E-07	5.52E-06	2.52E-05	5.99E-08	3.38E-06	1.16E-05	1.39E-08
1844	420395.4	3734665	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.85E-08	3.31E-06	1.13E-05	1.36E-08
1845	420388.8	3734659	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.40E-05	5.71E-08	3.23E-06	1.10E-05	1.32E-08
1846	420382.3	3734652	3.74E-05	1.71E-04	3.73E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1847	420375.7	3734646	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.28E-05	5.42E-08	3.06E-06	1.05E-05	1.26E-08
1848	420369.2	3734639	3.54E-05	1.62E-04	3.54E-07	4.86E-06	2.22E-05	5.27E-08	2.98E-06	1.02E-05	1.22E-08
1849	420362.7	3734633	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.13E-08	2.90E-06	9.91E-06	1.19E-08
1850	420356.1	3734626	3.36E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	5.00E-08	2.82E-06	9.64E-06	1.16E-08
1851	420349.6	3734620	3.26E-05	1.49E-04	3.26E-07	4.47E-06	2.04E-05	4.86E-08	2.75E-06	9.38E-06	1.13E-08
1852	420343	3734613	3.17E-05	1.45E-04	3.17E-07	4.35E-06	1.98E-05	4.72E-08	2.67E-06	9.12E-06	1.10E-08
1853	420336.5	3734607	3.08E-05	1.41E-04	3.08E-07	4.23E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
1854	420329.9	3734600	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.61E-06	1.04E-08
1855	420323.4	3734594	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.36E-06	1.01E-08
1856	420314.4	3734578	2.82E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
1857	420311.9	3734569	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.06E-06	9.69E-09
1858	420302	3734534	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.72E-05	4.08E-08	2.31E-06	7.88E-06	9.48E-09
1859	420299.6	3734525	2.73E-05	1.25E-04	2.72E-07	3.74E-06	1.70E-05	4.06E-08	2.29E-06	7.83E-06	9.42E-09
1860	420274.9	3734436	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.13E-06	7.29E-06	8.77E-09
1861	420272.4	3734427	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.57E-05	3.75E-08	2.12E-06	7.23E-06	8.70E-09
1862	420269.9	3734418	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.64E-09
1863	420267.5	3734409	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
1864	420454.3	3734724	4.73E-05	2.16E-04	4.73E-07	6.49E-06	2.96E-05	7.05E-08	3.98E-06	1.36E-05	1.64E-08
1865	420462.6	3734729	4.89E-05	2.23E-04	4.88E-07	6.70E-06	3.05E-05	7.27E-08	4.11E-06	1.40E-05	1.69E-08
1866	420471	3734734	5.03E-05	2.30E-04	5.03E-07	6.90E-06	3.15E-05	7.49E-08	4.23E-06	1.45E-05	1.74E-08
1867	420427.6	3734752	3.74E-05	1.71E-04	3.74E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1868	420407.8	3734732	3.57E-05	1.63E-04	3.57E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.03E-05	1.23E-08
1869	420401.2	3734726	3.51E-05	1.60E-04	3.50E-07	4.81E-06	2.19E-05	5.22E-08	2.95E-06	1.01E-05	1.21E-08
1870	420394.6	3734719	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.89E-06	9.89E-06	1.19E-08
1871	420388	3734713	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.02E-08	2.84E-06	9.69E-06	1.17E-08
1872	420381.4	3734706	3.30E-05	1.51E-04	3.30E-07	4.53E-06	2.06E-05	4.92E-08	2.78E-06	9.49E-06	1.14E-08
1873	420374.8	3734700	3.23E-05	1.48E-04	3.23E-07	4.43E-06	2.02E-05	4.81E-08	2.72E-06	9.29E-06	1.12E-08
1874	420368.2	3734693	3.16E-05	1.45E-04	3.16E-07	4.33E-06	1.98E-05	4.71E-08	2.66E-06	9.08E-06	1.09E-08
1875	420361.6	3734686	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
1876	420355	3734680	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
1877	420348.3	3734673	2.95E-05	1.35E-04	2.95E-07	4.04E-06	1.84E-05	4.39E-08	2.48E-06	8.48E-06	1.02E-08
1878	420341.7	3734667	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.42E-06	8.28E-06	9.96E-09
1879	420335.1	3734660	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.08E-06	9.72E-09
1880	420328.5	3734653	2.75E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
1881	420321.9	3734647	2.68E-05	1.22E-04	2.68E-07	3.67E-06	1.67E-05	3.99E-08	2.25E-06	7.70E-06	9.26E-09
1882	420315.3	3734640	2.61E-05	1.19E-04	2.61E-07	3.58E-06	1.63E-05	3.89E-08	2.20E-06	7.51E-06	9.03E-09
1883	420288.9	3734614	2.35E-05	1.08E-04	2.35E-07	3.23E-06	1.47E-05	3.50E-08	1.98E-06	6.77E-06	8.14E-09
1884	420279.8	3734598	2.29E-05	1.04E-04	2.28E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09

1885	420277.3	3734589	2.28E-05	1.04E-04	2.28E-07	3.12E-06	1.42E-05	3.39E-08	1.92E-06	6.54E-06	7.87E-09
1886	420274.8	3734580	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.38E-08	1.91E-06	6.52E-06	7.84E-09
1887	420272.3	3734571	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.36E-08	1.90E-06	6.49E-06	7.80E-09
1888	420269.8	3734562	2.25E-05	1.03E-04	2.25E-07	3.08E-06	1.41E-05	3.35E-08	1.89E-06	6.46E-06	7.77E-09
1889	420262.4	3734535	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.36E-06	7.64E-09
1890	420259.9	3734526	2.20E-05	1.01E-04	2.20E-07	3.01E-06	1.37E-05	3.27E-08	1.85E-06	6.32E-06	7.60E-09
1891	420257.4	3734518	2.19E-05	9.99E-05	2.18E-07	3.00E-06	1.37E-05	3.25E-08	1.84E-06	6.28E-06	7.55E-09
1892	420254.9	3734509	2.17E-05	9.93E-05	2.17E-07	2.98E-06	1.36E-05	3.23E-08	1.83E-06	6.24E-06	7.51E-09
1893	420252.4	3734500	2.16E-05	9.87E-05	2.16E-07	2.96E-06	1.35E-05	3.21E-08	1.82E-06	6.20E-06	7.46E-09
1894	420249.9	3734491	2.15E-05	9.81E-05	2.14E-07	2.94E-06	1.34E-05	3.19E-08	1.80E-06	6.16E-06	7.41E-09
1895	420247.4	3734482	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.13E-06	7.37E-09
1896	420244.9	3734473	2.12E-05	9.68E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.09E-06	7.32E-09
1897	420235	3734437	2.06E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
1898	420232.5	3734428	2.05E-05	9.38E-05	2.05E-07	2.81E-06	1.28E-05	3.05E-08	1.73E-06	5.90E-06	7.09E-09
1899	420230	3734419	2.04E-05	9.32E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.86E-06	7.04E-09
1900	420227.5	3734410	2.03E-05	9.26E-05	2.02E-07	2.78E-06	1.27E-05	3.01E-08	1.70E-06	5.82E-06	7.00E-09
1901	420434.2	3734759	3.79E-05	1.73E-04	3.78E-07	5.19E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
1902	420442.5	3734764	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
1903	420450.9	3734768	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.49E-05	5.94E-08	3.35E-06	1.15E-05	1.38E-08
1904	420459.2	3734773	4.09E-05	1.87E-04	4.08E-07	5.60E-06	2.55E-05	6.08E-08	3.44E-06	1.17E-05	1.41E-08
1905	420467.6	3734778	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
1906	420407.5	3734787	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.53E-08	2.56E-06	8.74E-06	1.05E-08
1907	420387.5	3734767	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
1908	420380.9	3734760	2.89E-05	1.32E-04	2.89E-07	3.96E-06	1.81E-05	4.30E-08	2.43E-06	8.30E-06	9.99E-09
1909	420374.2	3734754	2.84E-05	1.30E-04	2.84E-07	3.90E-06	1.78E-05	4.23E-08	2.39E-06	8.17E-06	9.82E-09
1910	420367.5	3734747	2.79E-05	1.28E-04	2.79E-07	3.83E-06	1.75E-05	4.16E-08	2.35E-06	8.03E-06	9.66E-09
1911	420360.9	3734740	2.74E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
1912	420354.2	3734734	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
1913	420347.6	3734727	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.12E-09
1914	420340.9	3734720	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.43E-06	8.94E-09
1915	420334.3	3734714	2.53E-05	1.16E-04	2.53E-07	3.47E-06	1.58E-05	3.77E-08	2.13E-06	7.28E-06	8.76E-09
1916	420327.6	3734707	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
1917	420321	3734701	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.62E-08	2.05E-06	6.99E-06	8.40E-09
1918	420314.3	3734694	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.84E-06	8.23E-09
1919	420294.3	3734674	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.70E-09
1920	420287.7	3734667	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.83E-06	6.27E-06	7.53E-09
1921	420281	3734661	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.13E-06	7.37E-09
1922	420274.4	3734654	2.08E-05	9.53E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
1923	420267.7	3734647	2.04E-05	9.31E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1924	420261.1	3734641	1.99E-05	9.09E-05	1.99E-07	2.72E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
1925	420254.4	3734634	1.94E-05	8.87E-05	1.94E-07	2.66E-06	1.21E-05	2.89E-08	1.63E-06	5.57E-06	6.70E-09
1926	420245.3	3734618	1.89E-05	8.63E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.52E-09
1927	420242.7	3734609	1.88E-05	8.60E-05	1.88E-07	2.58E-06	1.18E-05	2.80E-08	1.58E-06	5.40E-06	6.50E-09
1928	420240.2	3734600	1.87E-05	8.57E-05	1.87E-07	2.57E-06	1.17E-05	2.79E-08	1.58E-06	5.38E-06	6.48E-09
1929	420237.7	3734591	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
1930	420235.2	3734582	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
1931	420232.7	3734573	1.85E-05	8.47E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.32E-06	6.40E-09
1932	420230.2	3734564	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
1933	420222.7	3734537	1.82E-05	8.30E-05	1.81E-07	2.49E-06	1.13E-05	2.70E-08	1.53E-06	5.22E-06	6.27E-09
1934	420220.2	3734528	1.81E-05	8.25E-05	1.80E-07	2.47E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.24E-09
1935	420217.6	3734519	1.80E-05	8.21E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
1936	420215.1	3734510	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
1937	420212.6	3734501	1.78E-05	8.12E-05	1.78E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.14E-09
1938	420210.1	3734492	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
1939	420207.6	3734483	1.76E-05	8.04E-05	1.76E-07	2.41E-06	1.10E-05	2.62E-08	1.48E-06	5.05E-06	6.08E-09
1940	420205.1	3734474	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.60E-08	1.47E-06	5.03E-06	6.05E-09
1941	420202.6	3734465	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
1942	420195	3734437	1.71E-05	7.82E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.92E-06	5.91E-09
1943	420192.5	3734428	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09

1944	420190	3734419	1.69E-05	7.74E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.85E-09
1945	420187.5	3734410	1.68E-05	7.69E-05	1.68E-07	2.31E-06	1.05E-05	2.50E-08	1.42E-06	4.83E-06	5.81E-09
1946	420414.1	3734793	3.08E-05	1.41E-04	3.07E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
1947	420422.5	3734798	3.15E-05	1.44E-04	3.14E-07	4.31E-06	1.97E-05	4.68E-08	2.65E-06	9.04E-06	1.09E-08
1948	420430.8	3734803	3.22E-05	1.47E-04	3.21E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.24E-06	1.11E-08
1949	420439.2	3734808	3.28E-05	1.50E-04	3.28E-07	4.50E-06	2.05E-05	4.89E-08	2.76E-06	9.44E-06	1.13E-08
1950	420447.5	3734813	3.35E-05	1.53E-04	3.35E-07	4.59E-06	2.09E-05	4.99E-08	2.82E-06	9.62E-06	1.16E-08
1951	420367.3	3734801	2.44E-05	1.12E-04	2.44E-07	3.34E-06	1.53E-05	3.63E-08	2.05E-06	7.01E-06	8.43E-09
1952	420360.6	3734795	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.59E-08	2.03E-06	6.92E-06	8.33E-09
1953	420353.9	3734788	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
1954	420313.7	3734748	2.15E-05	9.84E-05	2.15E-07	2.95E-06	1.35E-05	3.20E-08	1.81E-06	6.19E-06	7.44E-09
1955	420293.6	3734728	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1956	420286.9	3734721	2.00E-05	9.13E-05	2.00E-07	2.74E-06	1.25E-05	2.97E-08	1.68E-06	5.74E-06	6.90E-09
1957	420280.2	3734714	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.76E-09
1958	420273.5	3734708	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.61E-06	5.52E-06	6.63E-09
1959	420266.8	3734701	1.88E-05	8.60E-05	1.88E-07	2.58E-06	1.18E-05	2.80E-08	1.58E-06	5.41E-06	6.50E-09
1960	420260.1	3734694	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
1961	420253.4	3734688	1.81E-05	8.26E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.24E-09
1962	420246.7	3734681	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
1963	420240	3734674	1.73E-05	7.92E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.99E-09
1964	420233.3	3734668	1.70E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.86E-09
1965	420226.6	3734661	1.66E-05	7.59E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.73E-09
1966	420219.9	3734654	1.62E-05	7.42E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.66E-06	5.61E-09
1967	420200.6	3734602	1.57E-05	7.16E-05	1.57E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
1968	420198.1	3734593	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
1969	420195.5	3734584	1.55E-05	7.10E-05	1.55E-07	2.13E-06	9.71E-06	2.31E-08	1.31E-06	4.46E-06	5.37E-09
1970	420193	3734575	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1971	420190.5	3734566	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.62E-06	2.29E-08	1.29E-06	4.42E-06	5.32E-09
1972	420182.9	3734538	1.52E-05	6.93E-05	1.52E-07	2.08E-06	9.48E-06	2.26E-08	1.28E-06	4.36E-06	5.24E-09
1973	420180.4	3734529	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.44E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
1974	420177.9	3734520	1.50E-05	6.87E-05	1.50E-07	2.06E-06	9.39E-06	2.24E-08	1.26E-06	4.32E-06	5.19E-09
1975	420175.3	3734511	1.50E-05	6.84E-05	1.50E-07	2.05E-06	9.35E-06	2.23E-08	1.26E-06	4.30E-06	5.17E-09
1976	420172.8	3734502	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
1977	420170.3	3734493	1.48E-05	6.77E-05	1.48E-07	2.03E-06	9.26E-06	2.21E-08	1.25E-06	4.26E-06	5.12E-09
1978	420167.7	3734484	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
1979	420165.2	3734475	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.18E-06	2.19E-08	1.24E-06	4.22E-06	5.07E-09
1980	420155.1	3734438	1.44E-05	6.59E-05	1.44E-07	1.97E-06	9.01E-06	2.14E-08	1.21E-06	4.14E-06	4.98E-09
1981	420152.6	3734429	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
1982	420150.1	3734420	1.43E-05	6.52E-05	1.43E-07	1.95E-06	8.91E-06	2.12E-08	1.20E-06	4.10E-06	4.93E-09
1983	420147.5	3734411	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
1984	420394.1	3734828	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.77E-09
1985	420402.4	3734833	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.86E-08	2.18E-06	7.44E-06	8.95E-09
1986	420410.7	3734838	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.58E-06	9.12E-09
1987	420419.1	3734843	2.69E-05	1.23E-04	2.69E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.72E-06	9.29E-09
1988	420427.4	3734847	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.44E-09
1989	420353.8	3734842	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.16E-09
1990	420347	3734836	2.05E-05	9.39E-05	2.05E-07	2.82E-06	1.28E-05	3.06E-08	1.73E-06	5.90E-06	7.10E-09
1991	420340.3	3734829	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.02E-09
1992	420333.6	3734822	2.01E-05	9.17E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.76E-06	6.93E-09
1993	420326.8	3734816	1.98E-05	9.06E-05	1.98E-07	2.72E-06	1.24E-05	2.95E-08	1.67E-06	5.69E-06	6.85E-09
1994	420320.1	3734809	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.76E-09
1995	420313.4	3734802	1.93E-05	8.83E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
1996	420306.6	3734795	1.90E-05	8.69E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
1997	420299.9	3734789	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
1998	420293.2	3734782	1.84E-05	8.41E-05	1.84E-07	2.52E-06	1.15E-05	2.74E-08	1.55E-06	5.28E-06	6.35E-09
1999	420286.4	3734775	1.81E-05	8.27E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
2000	420266.2	3734755	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.95E-06	5.96E-09
2001	420239.3	3734728	1.61E-05	7.34E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.55E-09
2002	420232.6	3734722	1.58E-05	7.21E-05	1.58E-07	2.16E-06	9.86E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09

2003	420225.8	3734715	1.55E-05	7.08E-05	1.55E-07	2.12E-06	9.68E-06	2.30E-08	1.30E-06	4.45E-06	5.35E-09
2004	420219.1	3734708	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
2005	420198.9	3734688	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
2006	420192.2	3734681	1.40E-05	6.42E-05	1.40E-07	1.93E-06	8.78E-06	2.09E-08	1.18E-06	4.04E-06	4.85E-09
2007	420185.4	3734675	1.38E-05	6.29E-05	1.38E-07	1.89E-06	8.60E-06	2.05E-08	1.16E-06	3.95E-06	4.76E-09
2008	420176.2	3734659	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
2009	420173.6	3734650	1.34E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.86E-06	4.65E-09
2010	420171.1	3734640	1.34E-05	6.14E-05	1.34E-07	1.84E-06	8.39E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
2011	420168.5	3734631	1.34E-05	6.12E-05	1.34E-07	1.84E-06	8.37E-06	1.99E-08	1.13E-06	3.85E-06	4.63E-09
2012	420166	3734622	1.34E-05	6.11E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
2013	420163.4	3734613	1.33E-05	6.08E-05	1.33E-07	1.82E-06	8.32E-06	1.98E-08	1.12E-06	3.82E-06	4.60E-09
2014	420160.9	3734604	1.33E-05	6.06E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
2015	420158.4	3734595	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.56E-09
2016	420155.8	3734585	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
2017	420153.3	3734576	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
2018	420150.7	3734567	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.15E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2019	420140.6	3734530	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
2020	420138	3734521	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.96E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
2021	420135.5	3734512	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
2022	420133	3734503	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
2023	420130.4	3734494	1.26E-05	5.74E-05	1.26E-07	1.72E-06	7.85E-06	1.87E-08	1.06E-06	3.61E-06	4.34E-09
2024	420127.9	3734485	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
2025	420125.3	3734475	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.79E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
2026	420115.2	3734439	1.23E-05	5.61E-05	1.23E-07	1.68E-06	7.67E-06	1.83E-08	1.03E-06	3.53E-06	4.24E-09
2027	420112.6	3734430	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
2028	420110.1	3734420	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
2029	420107.5	3734411	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
2030	420374	3734863	2.11E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
2031	420382.3	3734867	2.15E-05	9.82E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
2032	420390.7	3734872	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.24E-08	1.83E-06	6.26E-06	7.53E-09
2033	420399	3734877	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.36E-06	7.65E-09
2034	420407.4	3734882	2.25E-05	1.03E-04	2.25E-07	3.08E-06	1.41E-05	3.35E-08	1.89E-06	6.46E-06	7.77E-09
2035	420333.6	3734877	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.07E-06	6.09E-09
2036	420326.8	3734870	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
2037	420320.1	3734863	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2038	420313.3	3734857	1.73E-05	7.89E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.97E-09
2039	420306.5	3734850	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
2040	420299.8	3734843	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.84E-09
2041	420293	3734836	1.67E-05	7.63E-05	1.67E-07	2.29E-06	1.04E-05	2.48E-08	1.40E-06	4.79E-06	5.77E-09
2042	420286.2	3734830	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.68E-09
2043	420279.5	3734823	1.62E-05	7.40E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.65E-06	5.59E-09
2044	420272.7	3734816	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
2045	420265.9	3734810	1.57E-05	7.20E-05	1.57E-07	2.16E-06	9.84E-06	2.34E-08	1.32E-06	4.52E-06	5.44E-09
2046	420245.6	3734789	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.43E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
2047	420238.9	3734783	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
2048	420232.1	3734776	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
2049	420225.3	3734769	1.44E-05	6.56E-05	1.44E-07	1.97E-06	8.98E-06	2.14E-08	1.21E-06	4.13E-06	4.96E-09
2050	420218.6	3734762	1.41E-05	6.45E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2051	420211.8	3734756	1.39E-05	6.35E-05	1.39E-07	1.90E-06	8.68E-06	2.07E-08	1.17E-06	3.99E-06	4.80E-09
2052	420184.8	3734729	1.29E-05	5.92E-05	1.29E-07	1.77E-06	8.09E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
2053	420178	3734722	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2054	420171.2	3734715	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
2055	420164.5	3734708	1.23E-05	5.61E-05	1.23E-07	1.68E-06	7.67E-06	1.83E-08	1.03E-06	3.52E-06	4.24E-09
2056	420157.7	3734702	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.53E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
2057	420150.9	3734695	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
2058	420141.6	3734679	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2059	420139	3734670	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.24E-06	1.72E-08	9.74E-07	3.33E-06	4.00E-09
2060	420136.5	3734660	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
2061	420133.9	3734651	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09

2062	420131.4	3734642	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.20E-06	1.71E-08	9.69E-07	3.31E-06	3.98E-09
2063	420128.8	3734633	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
2064	420126.3	3734624	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.16E-06	1.70E-08	9.63E-07	3.29E-06	3.95E-09
2065	420123.7	3734614	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2066	420121.2	3734605	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.10E-06	1.69E-08	9.56E-07	3.27E-06	3.93E-09
2067	420118.6	3734596	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
2068	420116.1	3734587	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.05E-06	1.68E-08	9.49E-07	3.24E-06	3.90E-09
2069	420113.5	3734578	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.45E-07	3.23E-06	3.88E-09
2070	420111	3734568	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.67E-08	9.41E-07	3.21E-06	3.87E-09
2071	420100.8	3734532	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
2072	420098.2	3734522	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.59E-08	8.96E-07	3.06E-06	3.68E-09
2073	420095.6	3734513	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2074	420093.1	3734504	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.86E-07	3.03E-06	3.64E-09
2075	420090.5	3734495	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.02E-06	3.63E-09
2076	420088	3734486	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
2077	420085.4	3734476	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2078	420082.9	3734467	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.77E-07	2.99E-06	3.60E-09
2079	420075.2	3734439	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.82E-07	3.01E-06	3.62E-09
2080	420072.7	3734430	1.05E-05	4.82E-05	1.05E-07	1.44E-06	6.59E-06	1.57E-08	8.86E-07	3.03E-06	3.64E-09
2081	420070.1	3734421	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.57E-06	1.56E-08	8.84E-07	3.02E-06	3.63E-09
2082	420067.6	3734412	1.05E-05	4.79E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
2083	420353.9	3734897	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
2084	420362.3	3734902	1.81E-05	8.28E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
2085	420370.6	3734907	1.84E-05	8.39E-05	1.83E-07	2.52E-06	1.15E-05	2.73E-08	1.54E-06	5.28E-06	6.34E-09
2086	420378.9	3734912	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
2087	420387.3	3734917	1.89E-05	8.62E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.52E-09
2088	420313.5	3734911	1.53E-05	6.99E-05	1.53E-07	2.10E-06	9.56E-06	2.28E-08	1.29E-06	4.39E-06	5.28E-09
2089	420306.7	3734905	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
2090	420299.9	3734898	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.42E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
2091	420293.1	3734891	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
2092	420286.3	3734884	1.48E-05	6.77E-05	1.48E-07	2.03E-06	9.26E-06	2.21E-08	1.25E-06	4.26E-06	5.12E-09
2093	420279.5	3734878	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.17E-06	2.18E-08	1.23E-06	4.21E-06	5.07E-09
2094	420272.7	3734871	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.17E-06	5.02E-09
2095	420265.9	3734864	1.44E-05	6.56E-05	1.43E-07	1.97E-06	8.97E-06	2.14E-08	1.21E-06	4.12E-06	4.96E-09
2096	420259.1	3734857	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
2097	420252.3	3734851	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.75E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
2098	420231.9	3734830	1.35E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
2099	420225.1	3734823	1.33E-05	6.06E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
2100	420218.3	3734817	1.31E-05	5.98E-05	1.31E-07	1.79E-06	8.18E-06	1.95E-08	1.10E-06	3.76E-06	4.52E-09
2101	420211.5	3734810	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
2102	420204.7	3734803	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2103	420197.9	3734796	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
2104	420191.1	3734790	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2105	420184.4	3734783	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2106	420177.6	3734776	1.19E-05	5.45E-05	1.19E-07	1.63E-06	7.45E-06	1.77E-08	1.00E-06	3.42E-06	4.12E-09
2107	420170.8	3734769	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.74E-08	9.86E-07	3.37E-06	4.05E-09
2108	420164	3734762	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.70E-07	3.31E-06	3.98E-09
2109	420130	3734729	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
2110	420123.2	3734722	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2111	420116.4	3734715	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.42E-06	1.53E-08	8.64E-07	2.95E-06	3.55E-09
2112	420107.1	3734699	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.48E-09
2113	420104.5	3734690	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
2114	420101.9	3734681	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
2115	420099.4	3734671	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.50E-08	8.45E-07	2.89E-06	3.47E-09
2116	420096.8	3734662	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.46E-09
2117	420094.2	3734653	1.00E-05	4.57E-05	1.00E-07	1.37E-06	6.25E-06	1.49E-08	8.42E-07	2.87E-06	3.46E-09
2118	420091.7	3734644	9.98E-06	4.56E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
2119	420089.1	3734634	9.95E-06	4.55E-05	9.95E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
2120	420086.5	3734625	9.92E-06	4.53E-05	9.91E-08	1.36E-06	6.20E-06	1.48E-08	8.34E-07	2.85E-06	3.43E-09

2121	420084	3734616	9.89E-06	4.52E-05	9.88E-08	1.36E-06	6.18E-06	1.47E-08	8.32E-07	2.84E-06	3.42E-09
2122	420081.4	3734607	9.85E-06	4.50E-05	9.84E-08	1.35E-06	6.16E-06	1.47E-08	8.29E-07	2.83E-06	3.40E-09
2123	420078.8	3734597	9.82E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2124	420076.3	3734588	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
2125	420073.7	3734579	9.74E-06	4.46E-05	9.74E-08	1.34E-06	6.09E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
2126	420071.2	3734570	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
2127	420060.9	3734533	9.32E-06	4.26E-05	9.32E-08	1.28E-06	5.83E-06	1.39E-08	7.84E-07	2.68E-06	3.22E-09
2128	420058.3	3734523	9.21E-06	4.21E-05	9.20E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.18E-09
2129	420055.8	3734514	9.14E-06	4.18E-05	9.14E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
2130	420053.2	3734505	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
2131	420050.6	3734496	9.05E-06	4.14E-05	9.05E-08	1.24E-06	5.66E-06	1.35E-08	7.62E-07	2.60E-06	3.13E-09
2132	420048.1	3734486	9.02E-06	4.13E-05	9.02E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
2133	420045.5	3734477	9.02E-06	4.12E-05	9.01E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
2134	420043	3734468	9.01E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
2135	420035.3	3734440	9.07E-06	4.15E-05	9.06E-08	1.24E-06	5.67E-06	1.35E-08	7.63E-07	2.61E-06	3.13E-09
2136	420032.7	3734431	9.10E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.66E-07	2.61E-06	3.14E-09
2137	420030.1	3734422	9.13E-06	4.17E-05	9.12E-08	1.25E-06	5.71E-06	1.36E-08	7.68E-07	2.62E-06	3.15E-09
2138	420027.6	3734412	9.15E-06	4.18E-05	9.14E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
2139	420306.9	3734960	1.34E-05	6.14E-05	1.34E-07	1.84E-06	8.40E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
2140	420300.1	3734953	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
2141	420293.3	3734946	1.33E-05	6.08E-05	1.33E-07	1.82E-06	8.32E-06	1.98E-08	1.12E-06	3.82E-06	4.60E-09
2142	420286.5	3734939	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
2143	420279.7	3734932	1.31E-05	6.00E-05	1.31E-07	1.80E-06	8.21E-06	1.95E-08	1.10E-06	3.77E-06	4.54E-09
2144	420272.8	3734926	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
2145	420266	3734919	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
2146	420259.2	3734912	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
2147	420252.4	3734905	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2148	420197.8	3734851	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
2149	420191	3734844	1.14E-05	5.22E-05	1.14E-07	1.57E-06	7.14E-06	1.70E-08	9.61E-07	3.28E-06	3.95E-09
2150	420184.2	3734837	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.05E-06	1.68E-08	9.49E-07	3.24E-06	3.90E-09
2151	420177.4	3734830	1.11E-05	5.09E-05	1.11E-07	1.52E-06	6.95E-06	1.66E-08	9.36E-07	3.20E-06	3.84E-09
2152	420170.6	3734824	1.10E-05	5.01E-05	1.10E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
2153	420163.7	3734817	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
2154	420156.9	3734810	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.59E-08	8.96E-07	3.06E-06	3.68E-09
2155	420150.1	3734803	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.01E-06	3.63E-09
2156	420143.3	3734796	1.03E-05	4.73E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.70E-07	2.97E-06	3.57E-09
2157	420136.5	3734790	1.02E-05	4.66E-05	1.02E-07	1.40E-06	6.37E-06	1.52E-08	8.57E-07	2.93E-06	3.52E-09
2158	420116	3734769	9.73E-06	4.45E-05	9.73E-08	1.33E-06	6.08E-06	1.45E-08	8.19E-07	2.80E-06	3.36E-09
2159	420109.2	3734762	9.59E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
2160	420102.4	3734756	9.44E-06	4.32E-05	9.44E-08	1.29E-06	5.90E-06	1.41E-08	7.94E-07	2.71E-06	3.26E-09
2161	420072.5	3734719	8.77E-06	4.01E-05	8.76E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
2162	420069.9	3734710	8.74E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2163	420067.4	3734701	8.69E-06	3.98E-05	8.69E-08	1.19E-06	5.44E-06	1.29E-08	7.32E-07	2.50E-06	3.00E-09
2164	420064.8	3734691	8.71E-06	3.98E-05	8.70E-08	1.19E-06	5.44E-06	1.30E-08	7.33E-07	2.50E-06	3.01E-09
2165	420062.2	3734682	8.73E-06	3.99E-05	8.72E-08	1.20E-06	5.46E-06	1.30E-08	7.34E-07	2.51E-06	3.02E-09
2166	420059.6	3734673	8.74E-06	4.00E-05	8.74E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.51E-06	3.02E-09
2167	420057.1	3734663	8.78E-06	4.01E-05	8.77E-08	1.20E-06	5.49E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
2168	420054.5	3734654	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2169	420051.9	3734645	8.74E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2170	420049.3	3734636	8.71E-06	3.98E-05	8.71E-08	1.19E-06	5.45E-06	1.30E-08	7.33E-07	2.50E-06	3.01E-09
2171	420046.8	3734626	8.69E-06	3.97E-05	8.68E-08	1.19E-06	5.43E-06	1.29E-08	7.31E-07	2.50E-06	3.00E-09
2172	420044.2	3734617	8.66E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
2173	420041.6	3734608	8.63E-06	3.94E-05	8.62E-08	1.18E-06	5.39E-06	1.28E-08	7.26E-07	2.48E-06	2.98E-09
2174	420039.1	3734599	8.60E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
2175	420036.5	3734589	8.56E-06	3.92E-05	8.56E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2176	420033.9	3734580	8.53E-06	3.90E-05	8.53E-08	1.17E-06	5.33E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
2177	420031.3	3734571	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.31E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
2178	420021	3734534	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
2179	420018.5	3734524	8.13E-06	3.72E-05	8.13E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09

2180	420015.9	3734515	8.07E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.79E-07	2.32E-06	2.79E-09
2181	420013.3	3734506	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2182	420010.7	3734496	8.01E-06	3.66E-05	8.00E-08	1.10E-06	5.01E-06	1.19E-08	6.74E-07	2.30E-06	2.77E-09
2183	420008.2	3734487	7.99E-06	3.65E-05	7.98E-08	1.09E-06	4.99E-06	1.19E-08	6.72E-07	2.29E-06	2.76E-09
2184	420005.6	3734478	7.97E-06	3.65E-05	7.97E-08	1.09E-06	4.98E-06	1.19E-08	6.71E-07	2.29E-06	2.75E-09
2185	420003	3734469	7.96E-06	3.64E-05	7.95E-08	1.09E-06	4.98E-06	1.18E-08	6.70E-07	2.29E-06	2.75E-09
2186	419995.3	3734441	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
2187	419992.7	3734431	8.10E-06	3.70E-05	8.10E-08	1.11E-06	5.06E-06	1.21E-08	6.81E-07	2.33E-06	2.80E-09
2188	419990.2	3734422	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
2189	419987.6	3734413	8.08E-06	3.69E-05	8.08E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
2190	420313.8	3734966	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.43E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
2191	420322.1	3734971	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
2192	420330.4	3734976	1.38E-05	6.31E-05	1.38E-07	1.89E-06	8.63E-06	2.05E-08	1.16E-06	3.97E-06	4.77E-09
2193	420338.8	3734981	1.39E-05	6.38E-05	1.39E-07	1.91E-06	8.72E-06	2.08E-08	1.17E-06	4.01E-06	4.82E-09
2194	420347.1	3734986	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.05E-06	4.87E-09
2195	420287	3734994	1.17E-05	5.37E-05	1.17E-07	1.61E-06	7.34E-06	1.75E-08	9.88E-07	3.37E-06	4.06E-09
2196	420280.4	3734988	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.32E-06	1.74E-08	9.85E-07	3.36E-06	4.04E-09
2197	420273.7	3734981	1.17E-05	5.33E-05	1.16E-07	1.60E-06	7.29E-06	1.73E-08	9.80E-07	3.35E-06	4.03E-09
2198	420267	3734974	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2199	420260.4	3734968	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
2200	420253.7	3734961	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
2201	420247.1	3734955	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2202	420240.4	3734948	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
2203	420233.7	3734941	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
2204	420227.1	3734935	1.12E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.21E-06	3.85E-09
2205	420220.4	3734928	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.91E-06	1.65E-08	9.30E-07	3.18E-06	3.82E-09
2206	420213.7	3734921	1.10E-05	5.01E-05	1.09E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
2207	420207.1	3734915	1.08E-05	4.96E-05	1.08E-07	1.49E-06	6.78E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2208	420200.4	3734908	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.03E-07	3.08E-06	3.71E-09
2209	420193.8	3734901	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.64E-06	1.58E-08	8.93E-07	3.05E-06	3.67E-09
2210	420187.1	3734895	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.02E-06	3.63E-09
2211	420180.4	3734888	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
2212	420173.8	3734881	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.95E-06	3.55E-09
2213	420167.1	3734875	1.02E-05	4.65E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
2214	420160.5	3734868	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
2215	420153.8	3734862	9.90E-06	4.53E-05	9.90E-08	1.36E-06	6.19E-06	1.47E-08	8.33E-07	2.85E-06	3.42E-09
2216	420147.1	3734855	9.79E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
2217	420140.5	3734848	9.66E-06	4.42E-05	9.66E-08	1.32E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
2218	420093.8	3734802	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2219	420087.2	3734795	8.67E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
2220	420080.5	3734788	8.55E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2221	420073.8	3734782	8.44E-06	3.86E-05	8.43E-08	1.16E-06	5.27E-06	1.26E-08	7.10E-07	2.42E-06	2.92E-09
2222	420067.2	3734775	8.32E-06	3.81E-05	8.32E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.88E-09
2223	420060.5	3734769	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.83E-09
2224	420053.9	3734762	8.09E-06	3.70E-05	8.08E-08	1.11E-06	5.06E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
2225	420047.2	3734755	7.97E-06	3.65E-05	7.97E-08	1.09E-06	4.98E-06	1.19E-08	6.71E-07	2.29E-06	2.75E-09
2226	420035.5	3734730	7.78E-06	3.56E-05	7.77E-08	1.07E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.69E-09
2227	420033	3734721	7.75E-06	3.54E-05	7.74E-08	1.06E-06	4.84E-06	1.15E-08	6.52E-07	2.23E-06	2.68E-09
2228	420030.5	3734712	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2229	420028	3734703	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
2230	420025.5	3734694	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2231	420022.9	3734685	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2232	420020.4	3734676	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2233	420017.9	3734667	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
2234	420015.4	3734658	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2235	420012.9	3734649	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2236	420010.4	3734640	7.70E-06	3.52E-05	7.70E-08	1.06E-06	4.81E-06	1.15E-08	6.48E-07	2.21E-06	2.66E-09
2237	420007.9	3734631	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2238	420005.3	3734622	7.65E-06	3.50E-05	7.65E-08	1.05E-06	4.79E-06	1.14E-08	6.44E-07	2.20E-06	2.64E-09

2239	420002.8	3734613	7.63E-06	3.49E-05	7.63E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
2240	420000.3	3734604	7.61E-06	3.48E-05	7.60E-08	1.04E-06	4.76E-06	1.13E-08	6.40E-07	2.19E-06	2.63E-09
2241	419997.8	3734594	7.58E-06	3.47E-05	7.58E-08	1.04E-06	4.74E-06	1.13E-08	6.38E-07	2.18E-06	2.62E-09
2242	419995.3	3734585	7.56E-06	3.46E-05	7.55E-08	1.04E-06	4.73E-06	1.13E-08	6.36E-07	2.17E-06	2.61E-09
2243	419992.8	3734576	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
2244	419990.3	3734567	7.51E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.32E-07	2.16E-06	2.59E-09
2245	419982.7	3734540	7.44E-06	3.40E-05	7.44E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
2246	419980.2	3734531	7.42E-06	3.39E-05	7.41E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
2247	419977.7	3734522	7.40E-06	3.39E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
2248	419975.2	3734513	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
2249	419972.7	3734504	7.34E-06	3.35E-05	7.33E-08	1.01E-06	4.59E-06	1.09E-08	6.17E-07	2.11E-06	2.54E-09
2250	419970.2	3734495	7.29E-06	3.33E-05	7.28E-08	9.99E-07	4.56E-06	1.08E-08	6.13E-07	2.09E-06	2.52E-09
2251	419967.6	3734486	7.26E-06	3.32E-05	7.25E-08	9.95E-07	4.54E-06	1.08E-08	6.11E-07	2.09E-06	2.51E-09
2252	419965.1	3734477	7.25E-06	3.32E-05	7.25E-08	9.94E-07	4.54E-06	1.08E-08	6.10E-07	2.08E-06	2.51E-09
2253	419962.6	3734468	7.25E-06	3.31E-05	7.24E-08	9.93E-07	4.53E-06	1.08E-08	6.10E-07	2.08E-06	2.50E-09
2254	419955.1	3734440	7.25E-06	3.31E-05	7.25E-08	9.94E-07	4.53E-06	1.08E-08	6.10E-07	2.08E-06	2.51E-09
2255	419952.6	3734431	7.24E-06	3.31E-05	7.23E-08	9.92E-07	4.52E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
2256	419950	3734422	7.22E-06	3.30E-05	7.21E-08	9.89E-07	4.51E-06	1.07E-08	6.07E-07	2.07E-06	2.49E-09
2257	419947.5	3734413	7.20E-06	3.29E-05	7.20E-08	9.87E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
2258	420293.7	3735001	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
2259	420302	3735006	1.19E-05	5.45E-05	1.19E-07	1.63E-06	7.45E-06	1.77E-08	1.00E-06	3.42E-06	4.12E-09
2260	420310.4	3735011	1.21E-05	5.52E-05	1.21E-07	1.65E-06	7.54E-06	1.80E-08	1.01E-06	3.47E-06	4.17E-09
2261	420318.7	3735016	1.22E-05	5.57E-05	1.22E-07	1.67E-06	7.62E-06	1.81E-08	1.03E-06	3.50E-06	4.21E-09
2262	420327.1	3735020	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2263	420608.1	3734421	6.39E-04	2.92E-03	6.39E-06	8.77E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
2264	420577.7	3734437	4.01E-04	1.83E-03	4.00E-06	5.49E-05	2.50E-04	5.96E-07	3.37E-05	1.15E-04	1.38E-07
2265	420538.4	3734411	2.20E-04	1.00E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.59E-08
2266	420518.4	3734411	1.73E-04	7.91E-04	1.73E-06	2.37E-05	1.08E-04	2.58E-07	1.46E-05	4.97E-05	5.98E-08
2267	420498.4	3734410	1.39E-04	6.35E-04	1.39E-06	1.90E-05	8.68E-05	2.07E-07	1.17E-05	3.99E-05	4.80E-08
2268	420478.4	3734410	1.13E-04	5.17E-04	1.13E-06	1.55E-05	7.07E-05	1.68E-07	9.52E-06	3.25E-05	3.91E-08
2269	420458.4	3734409	9.36E-05	4.28E-04	9.35E-07	1.28E-05	5.85E-05	1.39E-07	7.87E-06	2.69E-05	3.23E-08
2270	420418.4	3734408	6.64E-05	3.03E-04	6.63E-07	9.10E-06	4.15E-05	9.88E-08	5.58E-06	1.91E-05	2.29E-08
2271	420398.4	3734407	5.68E-05	2.60E-04	5.68E-07	7.79E-06	3.55E-05	8.46E-08	4.78E-06	1.63E-05	1.96E-08
2272	420378.4	3734407	4.91E-05	2.25E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
2273	420338.5	3734406	3.76E-05	1.72E-04	3.76E-07	5.15E-06	2.35E-05	5.59E-08	3.16E-06	1.08E-05	1.30E-08
2274	420338	3734422	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
2275	420298.3	3734413	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
2276	420297.8	3734429	2.90E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2277	420258.3	3734412	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
2278	420257.8	3734428	2.33E-05	1.07E-04	2.33E-07	3.19E-06	1.46E-05	3.47E-08	1.96E-06	6.69E-06	8.05E-09
2279	420218.3	3734411	1.94E-05	8.85E-05	1.94E-07	2.65E-06	1.21E-05	2.88E-08	1.63E-06	5.57E-06	6.69E-09
2280	420217.8	3734427	1.91E-05	8.74E-05	1.91E-07	2.62E-06	1.20E-05	2.85E-08	1.61E-06	5.50E-06	6.61E-09
2281	420178.3	3734410	1.62E-05	7.39E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.64E-06	5.58E-09
2282	420177.9	3734426	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
2283	420138.3	3734409	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
2284	420137.9	3734425	1.35E-05	6.19E-05	1.35E-07	1.85E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.68E-09
2285	420098.3	3734408	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
2286	420097.9	3734424	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2287	420058.3	3734407	1.02E-05	4.65E-05	1.02E-07	1.39E-06	6.36E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
2288	420057.9	3734423	1.01E-05	4.60E-05	1.00E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.47E-09
2289	420018.4	3734405	8.92E-06	4.08E-05	8.91E-08	1.22E-06	5.58E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
2290	420017.9	3734422	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2291	419978.6	3734396	7.94E-06	3.63E-05	7.93E-08	1.09E-06	4.96E-06	1.18E-08	6.68E-07	2.28E-06	2.74E-09
2292	419978.1	3734413	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
2293	420667.7	3734449	4.20E-03	1.92E-02	4.19E-05	5.75E-04	2.62E-03	6.25E-06	3.53E-04	1.21E-03	1.45E-06
2294	420667.7	3734459	4.55E-03	2.08E-02	4.55E-05	6.24E-04	2.85E-03	6.78E-06	3.83E-04	1.31E-03	1.57E-06
2295	420667.7	3734468	4.88E-03	2.23E-02	4.88E-05	6.69E-04	3.05E-03	7.26E-06	4.11E-04	1.40E-03	1.69E-06
2296	420667.7	3734478	5.12E-03	2.34E-02	5.12E-05	7.02E-04	3.20E-03	7.62E-06	4.31E-04	1.47E-03	1.77E-06
2297	420667.7	3734488	5.26E-03	2.40E-02	5.25E-05	7.21E-04	3.29E-03	7.83E-06	4.42E-04	1.51E-03	1.82E-06

2298	420667.7	3734497	5.25E-03	2.40E-02	5.25E-05	7.20E-04	3.28E-03	7.82E-06	4.42E-04	1.51E-03	1.82E-06
2299	420667.7	3734507	5.09E-03	2.33E-02	5.09E-05	6.98E-04	3.18E-03	7.58E-06	4.28E-04	1.46E-03	1.76E-06
2300	420667.7	3734517	4.74E-03	2.17E-02	4.74E-05	6.50E-04	2.97E-03	7.06E-06	3.99E-04	1.36E-03	1.64E-06
2301	420667.7	3734526	4.19E-03	1.91E-02	4.18E-05	5.74E-04	2.62E-03	6.23E-06	3.52E-04	1.20E-03	1.45E-06
2302	420667.7	3734536	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.22E-03	5.29E-06	2.99E-04	1.02E-03	1.23E-06
2303	420657.7	3734468	3.19E-03	1.46E-02	3.19E-05	4.37E-04	1.99E-03	4.75E-06	2.68E-04	9.16E-04	1.10E-06
2304	420657.7	3734478	3.30E-03	1.51E-02	3.30E-05	4.52E-04	2.06E-03	4.91E-06	2.78E-04	9.49E-04	1.14E-06
2305	420657.7	3734488	3.34E-03	1.53E-02	3.34E-05	4.58E-04	2.09E-03	4.97E-06	2.81E-04	9.60E-04	1.15E-06
2306	420657.7	3734497	3.30E-03	1.51E-02	3.29E-05	4.52E-04	2.06E-03	4.91E-06	2.77E-04	9.47E-04	1.14E-06
2307	420657.7	3734507	3.16E-03	1.44E-02	3.16E-05	4.33E-04	1.97E-03	4.70E-06	2.66E-04	9.08E-04	1.09E-06
2308	420657.7	3734517	2.93E-03	1.34E-02	2.93E-05	4.02E-04	1.83E-03	4.36E-06	2.47E-04	8.42E-04	1.01E-06
2309	420657.7	3734526	2.62E-03	1.20E-02	2.62E-05	3.59E-04	1.64E-03	3.90E-06	2.21E-04	7.53E-04	9.06E-07
2310	420657.7	3734536	2.29E-03	1.05E-02	2.29E-05	3.14E-04	1.43E-03	3.41E-06	1.92E-04	6.57E-04	7.91E-07
2311	420647.7	3734488	2.26E-03	1.03E-02	2.26E-05	3.10E-04	1.41E-03	3.36E-06	1.90E-04	6.49E-04	7.81E-07
2312	420647.7	3734497	2.21E-03	1.01E-02	2.21E-05	3.03E-04	1.38E-03	3.29E-06	1.86E-04	6.35E-04	7.64E-07
2313	420647.7	3734507	2.11E-03	9.65E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.78E-04	6.07E-04	7.29E-07
2314	420647.7	3734517	1.97E-03	8.99E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
2315	420647.7	3734526	1.79E-03	8.16E-03	1.78E-05	2.45E-04	1.12E-03	2.66E-06	1.50E-04	5.13E-04	6.17E-07
2316	420647.7	3734536	1.59E-03	7.28E-03	1.59E-05	2.18E-04	9.96E-04	2.37E-06	1.34E-04	4.58E-04	5.51E-07
2317	420617.7	3734507	8.61E-04	3.94E-03	8.60E-06	1.18E-04	5.38E-04	1.28E-06	7.24E-05	2.47E-04	2.97E-07
2318	420617.7	3734536	7.16E-04	3.27E-03	7.16E-06	9.81E-05	4.48E-04	1.07E-06	6.02E-05	2.06E-04	2.47E-07
2319	420607.7	3734526	6.16E-04	2.82E-03	6.16E-06	8.45E-05	3.85E-04	9.18E-07	5.19E-05	1.77E-04	2.13E-07
2320	420587.7	3734488	4.78E-04	2.18E-03	4.77E-06	6.55E-05	2.99E-04	7.11E-07	4.02E-05	1.37E-04	1.65E-07
2321	420587.7	3734536	4.00E-04	1.83E-03	3.99E-06	5.48E-05	2.50E-04	5.95E-07	3.36E-05	1.15E-04	1.38E-07
2322	420577.7	3734478	4.04E-04	1.85E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.40E-05	1.16E-04	1.39E-07
2323	420577.7	3734507	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.62E-07	3.18E-05	1.09E-04	1.31E-07
2324	420557.7	3734488	2.86E-04	1.31E-03	2.85E-06	3.91E-05	1.79E-04	4.25E-07	2.40E-05	8.20E-05	9.87E-08
2325	420557.7	3734507	2.74E-04	1.25E-03	2.73E-06	3.75E-05	1.71E-04	4.07E-07	2.30E-05	7.86E-05	9.45E-08
2326	420517.7	3734468	1.69E-04	7.74E-04	1.69E-06	2.32E-05	1.06E-04	2.52E-07	1.42E-05	4.86E-05	5.85E-08
2327	420517.7	3734478	1.67E-04	7.65E-04	1.67E-06	2.29E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.78E-08
2328	420497.7	3734478	1.32E-04	6.06E-04	1.32E-06	1.82E-05	8.28E-05	1.97E-07	1.11E-05	3.81E-05	4.58E-08
2329	420497.7	3734507	1.27E-04	5.82E-04	1.27E-06	1.74E-05	7.96E-05	1.89E-07	1.07E-05	3.66E-05	4.40E-08
2330	420497.7	3734536	1.21E-04	5.52E-04	1.21E-06	1.65E-05	7.54E-05	1.80E-07	1.02E-05	3.47E-05	4.17E-08
2331	420477.7	3734478	1.07E-04	4.90E-04	1.07E-06	1.47E-05	6.70E-05	1.60E-07	9.01E-06	3.08E-05	3.70E-08
2332	420477.7	3734517	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.57E-06	2.93E-05	3.52E-08
2333	420457.7	3734478	8.83E-05	4.04E-04	8.82E-07	1.21E-05	5.52E-05	1.31E-07	7.43E-06	2.54E-05	3.05E-08
2334	420417.7	3734478	6.25E-05	2.86E-04	6.24E-07	8.56E-06	3.91E-05	9.30E-08	5.26E-06	1.80E-05	2.16E-08
2335	420417.7	3734536	5.87E-05	2.68E-04	5.87E-07	8.04E-06	3.67E-05	8.74E-08	4.94E-06	1.69E-05	2.03E-08
2336	420397.7	3734478	5.35E-05	2.45E-04	5.35E-07	7.33E-06	3.34E-05	7.96E-08	4.50E-06	1.54E-05	1.85E-08
2337	420377.7	3734478	4.62E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.88E-08	3.89E-06	1.33E-05	1.60E-08
2338	420337.7	3734440	3.65E-05	1.67E-04	3.65E-07	5.00E-06	2.28E-05	5.43E-08	3.07E-06	1.05E-05	1.26E-08
2339	420337.7	3734468	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.00E-06	1.03E-05	1.23E-08
2340	420337.7	3734478	3.54E-05	1.62E-04	3.54E-07	4.86E-06	2.22E-05	5.28E-08	2.98E-06	1.02E-05	1.22E-08
2341	420257.7	3734440	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.99E-09
2342	420257.7	3734468	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.37E-08	1.91E-06	6.51E-06	7.83E-09
2343	420257.7	3734478	2.25E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.35E-08	1.89E-06	6.47E-06	7.78E-09
2344	420217.7	3734440	1.90E-05	8.67E-05	1.90E-07	2.60E-06	1.19E-05	2.82E-08	1.60E-06	5.45E-06	6.55E-09
2345	420217.7	3734468	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
2346	420217.7	3734478	1.85E-05	8.45E-05	1.85E-07	2.53E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
2347	420177.7	3734440	1.58E-05	7.24E-05	1.58E-07	2.17E-06	9.90E-06	2.36E-08	1.33E-06	4.55E-06	5.47E-09
2348	420177.7	3734468	1.55E-05	7.11E-05	1.55E-07	2.13E-06	9.72E-06	2.31E-08	1.31E-06	4.47E-06	5.37E-09
2349	420177.7	3734478	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
2350	420137.7	3734440	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.38E-06	2.00E-08	1.13E-06	3.85E-06	4.63E-09
2351	420137.7	3734468	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
2352	420137.7	3734478	1.31E-05	5.98E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.76E-06	4.52E-09
2353	420137.7	3734488	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
2354	420097.7	3734440	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
2355	420097.7	3734468	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.93E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
2356	420097.7	3734478	1.10E-05	5.02E-05	1.10E-07	1.50E-06	6.86E-06	1.63E-08	9.23E-07	3.15E-06	3.79E-09

2357	420097.7	3734488	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
2358	420057.7	3734440	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
2359	420057.7	3734468	9.45E-06	4.32E-05	9.44E-08	1.30E-06	5.91E-06	1.41E-08	7.95E-07	2.72E-06	3.27E-09
2360	420057.7	3734478	9.38E-06	4.29E-05	9.37E-08	1.29E-06	5.86E-06	1.40E-08	7.89E-07	2.69E-06	3.24E-09
2361	420057.7	3734488	9.30E-06	4.25E-05	9.30E-08	1.28E-06	5.82E-06	1.38E-08	7.83E-07	2.67E-06	3.22E-09
2362	420017.7	3734440	8.59E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
2363	420017.7	3734468	8.32E-06	3.80E-05	8.31E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.87E-09
2364	420017.7	3734478	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
2365	420017.7	3734488	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.84E-09
2366	419977.8	3734430	7.78E-06	3.56E-05	7.78E-08	1.07E-06	4.86E-06	1.16E-08	6.55E-07	2.24E-06	2.69E-09
2367	419977.7	3734440	7.70E-06	3.52E-05	7.70E-08	1.06E-06	4.82E-06	1.15E-08	6.48E-07	2.21E-06	2.66E-09
2368	419977.7	3734468	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
2369	419977.7	3734478	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
2370	419977.7	3734488	7.41E-06	3.39E-05	7.40E-08	1.02E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
2371	420671.1	3734573	2.01E-03	9.17E-03	2.00E-05	2.75E-04	1.25E-03	2.98E-06	1.69E-04	5.76E-04	6.93E-07
2372	420656.8	3734567	1.34E-03	6.11E-03	1.34E-05	1.83E-04	8.35E-04	1.99E-06	1.12E-04	3.84E-04	4.62E-07
2373	420705.8	3734575	8.58E-03	3.92E-02	8.58E-05	1.18E-03	5.37E-03	1.28E-05	7.22E-04	2.47E-03	2.97E-06
2374	420715	3734575	1.11E-02	5.06E-02	1.11E-04	1.52E-03	6.92E-03	1.65E-05	9.31E-04	3.18E-03	3.82E-06
2375	420724.2	3734575	1.29E-02	5.90E-02	1.29E-04	1.77E-03	8.07E-03	1.92E-05	1.09E-03	3.71E-03	4.46E-06
2376	420733.4	3734575	1.38E-02	6.33E-02	1.38E-04	1.90E-03	8.66E-03	2.06E-05	1.16E-03	3.98E-03	4.78E-06
2377	420671.2	3734583	1.68E-03	7.66E-03	1.67E-05	2.30E-04	1.05E-03	2.49E-06	1.41E-04	4.82E-04	5.79E-07
2378	420656.9	3734577	1.15E-03	5.26E-03	1.15E-05	1.58E-04	7.19E-04	1.71E-06	9.67E-05	3.30E-04	3.97E-07
2379	420639.6	3734564	8.83E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.32E-06	7.43E-05	2.54E-04	3.05E-07
2380	420706	3734585	6.15E-03	2.81E-02	6.14E-05	8.42E-04	3.84E-03	9.15E-06	5.17E-04	1.77E-03	2.12E-06
2381	420715.1	3734585	7.89E-03	3.61E-02	7.89E-05	1.08E-03	4.93E-03	1.17E-05	6.64E-04	2.27E-03	2.73E-06
2382	420724.3	3734585	9.37E-03	4.29E-02	9.37E-05	1.28E-03	5.86E-03	1.40E-05	7.89E-04	2.69E-03	3.24E-06
2383	420733.5	3734585	1.04E-02	4.74E-02	1.04E-04	1.42E-03	6.48E-03	1.54E-05	8.72E-04	2.98E-03	3.58E-06
2384	420671.4	3734593	1.42E-03	6.49E-03	1.42E-05	1.95E-04	8.87E-04	2.11E-06	1.19E-04	4.08E-04	4.90E-07
2385	420657.1	3734587	9.98E-04	4.56E-03	9.98E-06	1.37E-04	6.24E-04	1.49E-06	8.40E-05	2.87E-04	3.45E-07
2386	420642.7	3734581	7.63E-04	3.49E-03	7.62E-06	1.05E-04	4.77E-04	1.14E-06	6.42E-05	2.19E-04	2.64E-07
2387	420632.6	3734571	6.95E-04	3.18E-03	6.95E-06	9.53E-05	4.35E-04	1.03E-06	5.85E-05	2.00E-04	2.40E-07
2388	420696.9	3734595	3.41E-03	1.56E-02	3.41E-05	4.67E-04	2.13E-03	5.08E-06	2.87E-04	9.80E-04	1.18E-06
2389	420706.1	3734595	4.60E-03	2.10E-02	4.60E-05	6.30E-04	2.88E-03	6.85E-06	3.87E-04	1.32E-03	1.59E-06
2390	420715.3	3734595	5.86E-03	2.68E-02	5.86E-05	8.04E-04	3.67E-03	8.73E-06	4.93E-04	1.69E-03	2.03E-06
2391	420724.5	3734595	7.02E-03	3.21E-02	7.02E-05	9.62E-04	4.39E-03	1.04E-05	5.91E-04	2.02E-03	2.43E-06
2392	420645.3	3734592	7.03E-04	3.21E-03	7.02E-06	9.63E-05	4.39E-04	1.05E-06	5.91E-05	2.02E-04	2.43E-07
2393	420625.1	3734577	5.64E-04	2.58E-03	5.64E-06	7.73E-05	3.52E-04	8.39E-07	4.74E-05	1.62E-04	1.95E-07
2394	420687.9	3734606	1.99E-03	9.09E-03	1.99E-05	2.72E-04	1.24E-03	2.96E-06	1.67E-04	5.71E-04	6.87E-07
2395	420697.1	3734605	2.70E-03	1.23E-02	2.70E-05	3.70E-04	1.69E-03	4.02E-06	2.27E-04	7.75E-04	9.32E-07
2396	420706.3	3734605	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.23E-03	5.30E-06	3.00E-04	1.02E-03	1.23E-06
2397	420715.4	3734605	4.50E-03	2.06E-02	4.50E-05	6.17E-04	2.81E-03	6.70E-06	3.79E-04	1.29E-03	1.55E-06
2398	420724.6	3734605	5.40E-03	2.47E-02	5.40E-05	7.40E-04	3.38E-03	8.04E-06	4.54E-04	1.55E-03	1.87E-06
2399	420637.9	3734599	5.59E-04	2.56E-03	5.59E-06	7.67E-05	3.50E-04	8.33E-07	4.71E-05	1.61E-04	1.93E-07
2400	420618.1	3734585	4.65E-04	2.12E-03	4.64E-06	6.37E-05	2.91E-04	6.92E-07	3.91E-05	1.34E-04	1.61E-07
2401	420611.3	3734568	4.82E-04	2.20E-03	4.81E-06	6.60E-05	3.01E-04	7.17E-07	4.05E-05	1.38E-04	1.66E-07
2402	420688	3734616	1.65E-03	7.55E-03	1.65E-05	2.26E-04	1.03E-03	2.46E-06	1.39E-04	4.75E-04	5.71E-07
2403	420697.2	3734615	2.19E-03	1.00E-02	2.19E-05	3.00E-04	1.37E-03	3.26E-06	1.84E-04	6.28E-04	7.56E-07
2404	420706.4	3734615	2.83E-03	1.30E-02	2.83E-05	3.88E-04	1.77E-03	4.22E-06	2.38E-04	8.14E-04	9.79E-07
2405	420715.6	3734615	3.55E-03	1.62E-02	3.54E-05	4.86E-04	2.22E-03	5.28E-06	2.98E-04	1.02E-03	1.23E-06
2406	420724.8	3734615	4.25E-03	1.94E-02	4.25E-05	5.83E-04	2.66E-03	6.33E-06	3.58E-04	1.22E-03	1.47E-06
2407	420638.7	3734610	5.07E-04	2.32E-03	5.06E-06	6.95E-05	3.17E-04	7.54E-07	4.26E-05	1.46E-04	1.75E-07
2408	420622.6	3734603	4.16E-04	1.90E-03	4.16E-06	5.70E-05	2.60E-04	6.19E-07	3.50E-05	1.19E-04	1.44E-07
2409	420611.1	3734592	3.89E-04	1.78E-03	3.89E-06	5.34E-05	2.43E-04	5.80E-07	3.28E-05	1.12E-04	1.35E-07
2410	420604.4	3734576	4.03E-04	1.84E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.39E-05	1.16E-04	1.39E-07
2411	420688.2	3734626	1.39E-03	6.37E-03	1.39E-05	1.91E-04	8.72E-04	2.08E-06	1.17E-04	4.01E-04	4.82E-07
2412	420697.4	3734625	1.81E-03	8.27E-03	1.81E-05	2.48E-04	1.13E-03	2.69E-06	1.52E-04	5.20E-04	6.25E-07
2413	420706.5	3734625	2.30E-03	1.05E-02	2.30E-05	3.16E-04	1.44E-03	3.43E-06	1.94E-04	6.62E-04	7.96E-07
2414	420715.7	3734625	2.85E-03	1.30E-02	2.85E-05	3.91E-04	1.78E-03	4.25E-06	2.40E-04	8.20E-04	9.86E-07
2415	420724.9	3734625	3.41E-03	1.56E-02	3.41E-05	4.68E-04	2.13E-03	5.08E-06	2.87E-04	9.81E-04	1.18E-06

2416	420639.3	3734620	4.60E-04	2.10E-03	4.60E-06	6.31E-05	2.88E-04	6.85E-07	3.87E-05	1.32E-04	1.59E-07
2417	420623.4	3734613	3.81E-04	1.74E-03	3.81E-06	5.22E-05	2.38E-04	5.67E-07	3.21E-05	1.09E-04	1.32E-07
2418	420604.2	3734599	3.31E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
2419	420597.5	3734583	3.43E-04	1.57E-03	3.42E-06	4.70E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
2420	420688.3	3734636	1.19E-03	5.44E-03	1.19E-05	1.63E-04	7.44E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
2421	420697.5	3734635	1.52E-03	6.93E-03	1.52E-05	2.08E-04	9.48E-04	2.26E-06	1.28E-04	4.36E-04	5.24E-07
2422	420706.7	3734635	1.91E-03	8.71E-03	1.90E-05	2.61E-04	1.19E-03	2.84E-06	1.60E-04	5.47E-04	6.58E-07
2423	420715.9	3734635	2.34E-03	1.07E-02	2.34E-05	3.21E-04	1.46E-03	3.48E-06	1.97E-04	6.72E-04	8.08E-07
2424	420725.1	3734635	2.79E-03	1.27E-02	2.79E-05	3.82E-04	1.74E-03	4.15E-06	2.35E-04	8.01E-04	9.64E-07
2425	420671.6	3734653	6.25E-04	2.86E-03	6.24E-06	8.56E-05	3.91E-04	9.30E-07	5.26E-05	1.80E-04	2.16E-07
2426	420640.3	3734640	3.82E-04	1.75E-03	3.82E-06	5.24E-05	2.39E-04	5.69E-07	3.22E-05	1.10E-04	1.32E-07
2427	420624.7	3734634	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.70E-05	9.21E-05	1.11E-07
2428	420609.1	3734627	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.33E-05	7.94E-05	9.55E-08
2429	420590.2	3734613	2.46E-04	1.13E-03	2.46E-06	3.38E-05	1.54E-04	3.67E-07	2.07E-05	7.08E-05	8.51E-08
2430	420583.7	3734598	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
2431	420573.9	3734575	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.89E-07	2.20E-05	7.50E-05	9.02E-08
2432	420688.6	3734656	8.94E-04	4.09E-03	8.93E-06	1.23E-04	5.59E-04	1.33E-06	7.52E-05	2.57E-04	3.09E-07
2433	420697.8	3734655	1.11E-03	5.06E-03	1.11E-05	1.52E-04	6.92E-04	1.65E-06	9.32E-05	3.18E-04	3.83E-07
2434	420707	3734655	1.36E-03	6.21E-03	1.36E-05	1.86E-04	8.50E-04	2.02E-06	1.14E-04	3.90E-04	4.70E-07
2435	420716.2	3734655	1.64E-03	7.50E-03	1.64E-05	2.25E-04	1.03E-03	2.44E-06	1.38E-04	4.72E-04	5.67E-07
2436	420671.3	3734672	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
2437	420654.6	3734666	3.84E-04	1.76E-03	3.84E-06	5.26E-05	2.40E-04	5.72E-07	3.23E-05	1.10E-04	1.33E-07
2438	420646.3	3734662	3.42E-04	1.57E-03	3.42E-06	4.69E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
2439	420629.6	3734656	2.82E-04	1.29E-03	2.82E-06	3.87E-05	1.76E-04	4.20E-07	2.37E-05	8.10E-05	9.75E-08
2440	420612.8	3734649	2.42E-04	1.11E-03	2.42E-06	3.31E-05	1.51E-04	3.60E-07	2.03E-05	6.94E-05	8.35E-08
2441	420604.5	3734646	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.36E-07	1.90E-05	6.49E-05	7.80E-08
2442	420587.8	3734639	1.99E-04	9.08E-04	1.99E-06	2.72E-05	1.24E-04	2.96E-07	1.67E-05	5.71E-05	6.86E-08
2443	420575.9	3734627	1.90E-04	8.71E-04	1.90E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.47E-05	6.58E-08
2444	420572.4	3734619	1.94E-04	8.87E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
2445	420679.7	3734676	5.70E-04	2.60E-03	5.69E-06	7.81E-05	3.56E-04	8.48E-07	4.79E-05	1.64E-04	1.97E-07
2446	420688.9	3734676	6.92E-04	3.16E-03	6.92E-06	9.48E-05	4.33E-04	1.03E-06	5.82E-05	1.99E-04	2.39E-07
2447	420698.1	3734675	8.39E-04	3.84E-03	8.39E-06	1.15E-04	5.25E-04	1.25E-06	7.06E-05	2.41E-04	2.90E-07
2448	420707.3	3734675	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.51E-06	8.51E-05	2.91E-04	3.49E-07
2449	420716.5	3734675	1.20E-03	5.50E-03	1.20E-05	1.65E-04	7.53E-04	1.79E-06	1.01E-04	3.46E-04	4.16E-07
2450	420671.8	3734692	4.08E-04	1.86E-03	4.08E-06	5.59E-05	2.55E-04	6.07E-07	3.43E-05	1.17E-04	1.41E-07
2451	420655.4	3734686	3.23E-04	1.48E-03	3.23E-06	4.43E-05	2.02E-04	4.81E-07	2.72E-05	9.29E-05	1.12E-07
2452	420639.1	3734679	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
2453	420622.7	3734673	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.34E-07	1.89E-05	6.44E-05	7.74E-08
2454	420606.3	3734666	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
2455	420589.9	3734660	1.75E-04	7.99E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.02E-05	6.04E-08
2456	420573.6	3734653	1.57E-04	7.16E-04	1.57E-06	2.15E-05	9.79E-05	2.33E-07	1.32E-05	4.50E-05	5.41E-08
2457	420531.3	3734568	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.93E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
2458	420689.2	3734696	5.49E-04	2.51E-03	5.49E-06	7.53E-05	3.43E-04	8.17E-07	4.62E-05	1.58E-04	1.90E-07
2459	420698.4	3734695	6.55E-04	2.99E-03	6.54E-06	8.97E-05	4.09E-04	9.74E-07	5.51E-05	1.88E-04	2.26E-07
2460	420707.6	3734695	7.76E-04	3.55E-03	7.76E-06	1.06E-04	4.85E-04	1.16E-06	6.53E-05	2.23E-04	2.68E-07
2461	420735.1	3734695	1.21E-03	5.54E-03	1.21E-05	1.66E-04	7.58E-04	1.80E-06	1.02E-04	3.48E-04	4.19E-07
2462	420672.2	3734712	3.39E-04	1.55E-03	3.39E-06	4.65E-05	2.12E-04	5.05E-07	2.85E-05	9.74E-05	1.17E-07
2463	420656.1	3734706	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.09E-07	2.31E-05	7.89E-05	9.49E-08
2464	420640	3734700	2.27E-04	1.04E-03	2.27E-06	3.12E-05	1.42E-04	3.39E-07	1.91E-05	6.54E-05	7.86E-08
2465	420623.9	3734693	1.94E-04	8.89E-04	1.94E-06	2.67E-05	1.22E-04	2.89E-07	1.64E-05	5.59E-05	6.72E-08
2466	420607.7	3734687	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
2467	420591.6	3734680	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.61E-05	2.29E-07	1.29E-05	4.42E-05	5.31E-08
2468	420575.5	3734674	1.39E-04	6.37E-04	1.39E-06	1.91E-05	8.70E-05	2.07E-07	1.17E-05	4.00E-05	4.81E-08
2469	420548	3734656	1.23E-04	5.60E-04	1.23E-06	1.68E-05	7.66E-05	1.82E-07	1.03E-05	3.52E-05	4.24E-08
2470	420689.5	3734716	4.44E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.61E-07	3.74E-05	1.28E-04	1.54E-07
2471	420698.7	3734715	5.22E-04	2.39E-03	5.22E-06	7.16E-05	3.26E-04	7.77E-07	4.39E-05	1.50E-04	1.80E-07
2472	420707.8	3734715	6.11E-04	2.79E-03	6.11E-06	8.38E-05	3.82E-04	9.10E-07	5.14E-05	1.76E-04	2.11E-07
2473	420735.4	3734715	9.32E-04	4.26E-03	9.31E-06	1.28E-04	5.83E-04	1.39E-06	7.84E-05	2.68E-04	3.22E-07
2474	420663.7	3734729	2.56E-04	1.17E-03	2.56E-06	3.51E-05	1.60E-04	3.81E-07	2.15E-05	7.35E-05	8.84E-08

2475	420655.3	3734726	2.32E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.45E-07	1.95E-05	6.65E-05	8.00E-08
2476	420646.9	3734722	2.11E-04	9.63E-04	2.10E-06	2.89E-05	1.32E-04	3.13E-07	1.77E-05	6.05E-05	7.28E-08
2477	420638.4	3734719	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.21E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
2478	420630	3734715	1.78E-04	8.13E-04	1.78E-06	2.44E-05	1.11E-04	2.65E-07	1.50E-05	5.11E-05	6.15E-08
2479	420621.6	3734712	1.65E-04	7.56E-04	1.65E-06	2.27E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.72E-08
2480	420613.1	3734709	1.55E-04	7.08E-04	1.55E-06	2.12E-05	9.69E-05	2.31E-07	1.30E-05	4.45E-05	5.35E-08
2481	420604.7	3734705	1.46E-04	6.68E-04	1.46E-06	2.00E-05	9.13E-05	2.17E-07	1.23E-05	4.20E-05	5.05E-08
2482	420596.3	3734702	1.38E-04	6.32E-04	1.38E-06	1.90E-05	8.65E-05	2.06E-07	1.16E-05	3.97E-05	4.78E-08
2483	420587.9	3734698	1.32E-04	6.01E-04	1.31E-06	1.80E-05	8.22E-05	1.96E-07	1.11E-05	3.78E-05	4.54E-08
2484	420579.4	3734695	1.25E-04	5.73E-04	1.25E-06	1.72E-05	7.84E-05	1.87E-07	1.05E-05	3.60E-05	4.33E-08
2485	420554.1	3734685	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.83E-05	1.63E-07	9.19E-06	3.14E-05	3.78E-08
2486	420545.7	3734682	1.04E-04	4.77E-04	1.04E-06	1.43E-05	6.53E-05	1.55E-07	8.78E-06	3.00E-05	3.61E-08
2487	420519.8	3734636	1.06E-04	4.84E-04	1.06E-06	1.45E-05	6.62E-05	1.58E-07	8.91E-06	3.04E-05	3.66E-08
2488	420502.2	3734594	1.07E-04	4.89E-04	1.07E-06	1.47E-05	6.68E-05	1.59E-07	8.99E-06	3.07E-05	3.69E-08
2489	420735.7	3734735	7.33E-04	3.35E-03	7.33E-06	1.01E-04	4.58E-04	1.09E-06	6.17E-05	2.11E-04	2.53E-07
2490	420606.2	3734726	1.29E-04	5.92E-04	1.29E-06	1.77E-05	8.09E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
2491	420589.6	3734719	1.17E-04	5.35E-04	1.17E-06	1.60E-05	7.32E-05	1.74E-07	9.85E-06	3.36E-05	4.04E-08
2492	420573	3734712	1.07E-04	4.90E-04	1.07E-06	1.47E-05	6.70E-05	1.60E-07	9.02E-06	3.08E-05	3.70E-08
2493	420539.8	3734699	9.09E-05	4.16E-04	9.08E-07	1.25E-05	5.68E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
2494	420519.8	3734684	8.49E-05	3.88E-04	8.49E-07	1.16E-05	5.31E-05	1.26E-07	7.15E-06	2.44E-05	2.94E-08
2495	420468	3734560	8.58E-05	3.92E-04	8.58E-07	1.18E-05	5.37E-05	1.28E-07	7.22E-06	2.47E-05	2.97E-08
2496	420736	3734755	5.88E-04	2.69E-03	5.88E-06	8.07E-05	3.68E-04	8.76E-07	4.95E-05	1.69E-04	2.03E-07
2497	420542	3734720	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
2498	420525.6	3734713	7.68E-05	3.51E-04	7.67E-07	1.05E-05	4.80E-05	1.14E-07	6.46E-06	2.21E-05	2.65E-08
2499	420502.4	3734690	7.30E-05	3.34E-04	7.30E-07	1.00E-05	4.57E-05	1.09E-07	6.15E-06	2.10E-05	2.52E-08
2500	420495.6	3734674	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.57E-08
2501	420690.3	3734776	2.35E-04	1.08E-03	2.35E-06	3.23E-05	1.47E-04	3.50E-07	1.98E-05	6.76E-05	8.13E-08
2502	420699.5	3734775	2.72E-04	1.24E-03	2.72E-06	3.73E-05	1.70E-04	4.05E-07	2.29E-05	7.82E-05	9.40E-08
2503	420708.7	3734775	3.14E-04	1.44E-03	3.14E-06	4.31E-05	1.97E-04	4.68E-07	2.64E-05	9.03E-05	1.09E-07
2504	420736.3	3734775	4.74E-04	2.17E-03	4.74E-06	6.50E-05	2.97E-04	7.06E-07	3.99E-05	1.36E-04	1.64E-07
2505	420673	3734792	1.66E-04	7.58E-04	1.66E-06	2.27E-05	1.04E-04	2.47E-07	1.40E-05	4.76E-05	5.73E-08
2506	420596.8	3734762	9.60E-05	4.39E-04	9.60E-07	1.32E-05	6.00E-05	1.43E-07	8.08E-06	2.76E-05	3.32E-08
2507	420588.3	3734758	9.17E-05	4.19E-04	9.17E-07	1.26E-05	5.73E-05	1.37E-07	7.71E-06	2.63E-05	3.17E-08
2508	420579.8	3734755	8.79E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.53E-05	3.04E-08
2509	420571.4	3734752	8.45E-05	3.86E-04	8.44E-07	1.16E-05	5.28E-05	1.26E-07	7.11E-06	2.43E-05	2.92E-08
2510	420520.6	3734731	6.82E-05	3.12E-04	6.81E-07	9.35E-06	4.26E-05	1.01E-07	5.74E-06	1.96E-05	2.36E-08
2511	420512.1	3734728	6.58E-05	3.01E-04	6.57E-07	9.02E-06	4.11E-05	9.79E-08	5.53E-06	1.89E-05	2.27E-08
2512	420503.6	3734724	6.34E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.44E-08	5.34E-06	1.82E-05	2.19E-08
2513	420491.6	3734713	6.20E-05	2.83E-04	6.20E-07	8.50E-06	3.88E-05	9.23E-08	5.22E-06	1.78E-05	2.14E-08
2514	420477.6	3734679	6.44E-05	2.94E-04	6.44E-07	8.83E-06	4.03E-05	9.59E-08	5.42E-06	1.85E-05	2.23E-08
2515	420470.5	3734662	6.50E-05	2.97E-04	6.50E-07	8.92E-06	4.07E-05	9.68E-08	5.47E-06	1.87E-05	2.25E-08
2516	420459.9	3734637	6.54E-05	2.99E-04	6.53E-07	8.96E-06	4.09E-05	9.73E-08	5.50E-06	1.88E-05	2.26E-08
2517	420438.8	3734586	6.36E-05	2.91E-04	6.36E-07	8.72E-06	3.98E-05	9.47E-08	5.35E-06	1.83E-05	2.20E-08
2518	420681.4	3734796	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.16E-05	6.21E-08
2519	420690.6	3734796	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
2520	420699.8	3734795	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
2521	420709	3734795	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.65E-04	3.94E-07	2.23E-05	7.61E-05	9.15E-08
2522	420736.6	3734795	3.92E-04	1.79E-03	3.92E-06	5.38E-05	2.45E-04	5.84E-07	3.30E-05	1.13E-04	1.35E-07
2523	420673.4	3734812	1.46E-04	6.70E-04	1.46E-06	2.01E-05	9.16E-05	2.18E-07	1.23E-05	4.21E-05	5.06E-08
2524	420598.2	3734782	8.65E-05	3.95E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
2525	420589.8	3734779	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
2526	420573.1	3734772	7.63E-05	3.49E-04	7.63E-07	1.05E-05	4.77E-05	1.14E-07	6.42E-06	2.19E-05	2.64E-08
2527	420556.4	3734765	7.12E-05	3.25E-04	7.11E-07	9.76E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2528	420477.6	3734727	5.38E-05	2.46E-04	5.37E-07	7.37E-06	3.36E-05	8.00E-08	4.52E-06	1.54E-05	1.86E-08
2529	420470.7	3734710	5.49E-05	2.51E-04	5.49E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
2530	420463.7	3734694	5.57E-05	2.55E-04	5.57E-07	7.63E-06	3.48E-05	8.29E-08	4.69E-06	1.60E-05	1.92E-08
2531	420435.9	3734627	5.64E-05	2.58E-04	5.64E-07	7.73E-06	3.53E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
2532	420681.7	3734816	1.57E-04	7.19E-04	1.57E-06	2.16E-05	9.83E-05	2.34E-07	1.32E-05	4.52E-05	5.43E-08
2533	420690.9	3734816	1.75E-04	8.00E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.03E-05	6.05E-08

2534	420700.1	3734815	1.98E-04	9.05E-04	1.98E-06	2.71E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.84E-08
2535	420709.3	3734815	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.44E-05	7.74E-08
2536	420736.9	3734815	3.27E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.38E-05	1.13E-07
2537	420673.8	3734832	1.30E-04	5.92E-04	1.29E-06	1.78E-05	8.10E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
2538	420657.2	3734826	1.15E-04	5.24E-04	1.14E-06	1.57E-05	7.16E-05	1.71E-07	9.64E-06	3.29E-05	3.96E-08
2539	420607.6	3734806	8.22E-05	3.76E-04	8.21E-07	1.13E-05	5.14E-05	1.22E-07	6.91E-06	2.36E-05	2.84E-08
2540	420591.1	3734799	7.49E-05	3.43E-04	7.49E-07	1.03E-05	4.68E-05	1.12E-07	6.30E-06	2.15E-05	2.59E-08
2541	420574.6	3734793	6.92E-05	3.17E-04	6.92E-07	9.49E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
2542	420558	3734786	6.46E-05	2.96E-04	6.46E-07	8.86E-06	4.04E-05	9.62E-08	5.44E-06	1.86E-05	2.23E-08
2543	420541.5	3734779	6.07E-05	2.78E-04	6.07E-07	8.33E-06	3.80E-05	9.04E-08	5.11E-06	1.75E-05	2.10E-08
2544	420508.4	3734766	5.41E-05	2.47E-04	5.41E-07	7.42E-06	3.38E-05	8.05E-08	4.55E-06	1.55E-05	1.87E-08
2545	420491.9	3734759	5.10E-05	2.33E-04	5.10E-07	6.99E-06	3.19E-05	7.59E-08	4.29E-06	1.47E-05	1.76E-08
2546	420475.4	3734753	4.80E-05	2.19E-04	4.79E-07	6.57E-06	3.00E-05	7.14E-08	4.03E-06	1.38E-05	1.66E-08
2547	420449.9	3734708	4.86E-05	2.22E-04	4.86E-07	6.66E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
2548	420443	3734692	4.89E-05	2.24E-04	4.89E-07	6.70E-06	3.06E-05	7.28E-08	4.11E-06	1.41E-05	1.69E-08
2549	420436.1	3734675	4.91E-05	2.25E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
2550	420408.6	3734610	4.85E-05	2.22E-04	4.84E-07	6.64E-06	3.03E-05	7.21E-08	4.08E-06	1.39E-05	1.67E-08
2551	420401.7	3734593	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
2552	420394.9	3734577	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
2553	420691.2	3734836	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.28E-05	4.39E-05	5.28E-08
2554	420700.4	3734835	1.71E-04	7.82E-04	1.71E-06	2.34E-05	1.07E-04	2.55E-07	1.44E-05	4.91E-05	5.91E-08
2555	420709.6	3734835	1.92E-04	8.76E-04	1.91E-06	2.63E-05	1.20E-04	2.85E-07	1.61E-05	5.50E-05	6.62E-08
2556	420737.1	3734835	2.74E-04	1.25E-03	2.73E-06	3.75E-05	1.71E-04	4.07E-07	2.30E-05	7.86E-05	9.45E-08
2557	420674.2	3734872	1.00E-04	4.59E-04	1.00E-06	1.38E-05	6.28E-05	1.49E-07	8.45E-06	2.88E-05	3.47E-08
2558	420665.8	3734869	9.47E-05	4.33E-04	9.46E-07	1.30E-05	5.92E-05	1.41E-07	7.97E-06	2.72E-05	3.27E-08
2559	420657.4	3734866	8.97E-05	4.10E-04	8.97E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
2560	420649	3734862	8.56E-05	3.91E-04	8.55E-07	1.17E-05	5.35E-05	1.27E-07	7.20E-06	2.46E-05	2.96E-08
2561	420640.6	3734859	8.19E-05	3.74E-04	8.18E-07	1.12E-05	5.12E-05	1.22E-07	6.89E-06	2.35E-05	2.83E-08
2562	420607	3734845	6.70E-05	3.06E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
2563	420598.6	3734842	6.40E-05	2.93E-04	6.40E-07	8.77E-06	4.00E-05	9.53E-08	5.39E-06	1.84E-05	2.21E-08
2564	420590.2	3734839	6.13E-05	2.80E-04	6.13E-07	8.40E-06	3.83E-05	9.13E-08	5.16E-06	1.76E-05	2.12E-08
2565	420581.8	3734835	5.89E-05	2.69E-04	5.89E-07	8.07E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
2566	420573.4	3734832	5.68E-05	2.59E-04	5.67E-07	7.78E-06	3.55E-05	8.45E-08	4.77E-06	1.63E-05	1.96E-08
2567	420565	3734828	5.48E-05	2.51E-04	5.48E-07	7.51E-06	3.43E-05	8.16E-08	4.61E-06	1.58E-05	1.89E-08
2568	420556.6	3734825	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
2569	420539.8	3734818	5.00E-05	2.28E-04	4.99E-07	6.85E-06	3.12E-05	7.44E-08	4.20E-06	1.44E-05	1.73E-08
2570	420531.4	3734815	4.87E-05	2.22E-04	4.86E-07	6.67E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
2571	420523	3734812	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.96E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
2572	420497.8	3734802	4.40E-05	2.01E-04	4.39E-07	6.03E-06	2.75E-05	6.54E-08	3.70E-06	1.26E-05	1.52E-08
2573	420489.4	3734798	4.29E-05	1.96E-04	4.28E-07	5.88E-06	2.68E-05	6.38E-08	3.61E-06	1.23E-05	1.48E-08
2574	420481	3734795	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
2575	420472.6	3734791	4.07E-05	1.86E-04	4.07E-07	5.58E-06	2.54E-05	6.06E-08	3.42E-06	1.17E-05	1.41E-08
2576	420464.2	3734788	3.96E-05	1.81E-04	3.96E-07	5.43E-06	2.48E-05	5.90E-08	3.33E-06	1.14E-05	1.37E-08
2577	420455.8	3734785	3.85E-05	1.76E-04	3.85E-07	5.28E-06	2.41E-05	5.74E-08	3.24E-06	1.11E-05	1.33E-08
2578	420447.4	3734781	3.75E-05	1.71E-04	3.74E-07	5.14E-06	2.34E-05	5.58E-08	3.15E-06	1.08E-05	1.29E-08
2579	420435.5	3734770	3.68E-05	1.68E-04	3.68E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
2580	420411.1	3734711	3.85E-05	1.76E-04	3.85E-07	5.27E-06	2.41E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
2581	420404.1	3734694	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
2582	420400.6	3734686	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.75E-08	3.25E-06	1.11E-05	1.33E-08
2583	420379.6	3734636	3.80E-05	1.74E-04	3.80E-07	5.21E-06	2.38E-05	5.66E-08	3.20E-06	1.09E-05	1.31E-08
2584	420376.1	3734628	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
2585	420369.1	3734611	3.73E-05	1.71E-04	3.73E-07	5.11E-06	2.33E-05	5.55E-08	3.14E-06	1.07E-05	1.29E-08
2586	420365.6	3734603	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.51E-08	3.11E-06	1.06E-05	1.28E-08
2587	420358.6	3734586	3.63E-05	1.66E-04	3.63E-07	4.98E-06	2.27E-05	5.41E-08	3.05E-06	1.04E-05	1.25E-08
2588	420682.6	3734876	1.07E-04	4.88E-04	1.07E-06	1.46E-05	6.67E-05	1.59E-07	8.98E-06	3.07E-05	3.69E-08
2589	420691.8	3734876	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.33E-05	1.75E-07	9.87E-06	3.37E-05	4.05E-08
2590	420701	3734875	1.30E-04	5.95E-04	1.30E-06	1.78E-05	8.13E-05	1.94E-07	1.09E-05	3.74E-05	4.50E-08
2591	420710.2	3734875	1.44E-04	6.60E-04	1.44E-06	1.98E-05	9.03E-05	2.15E-07	1.21E-05	4.15E-05	4.99E-08
2592	420737.7	3734875	1.99E-04	9.09E-04	1.99E-06	2.72E-05	1.24E-04	2.96E-07	1.67E-05	5.71E-05	6.87E-08

2593	420674.7	3734912	7.97E-05	3.65E-04	7.97E-07	1.09E-05	4.98E-05	1.19E-07	6.71E-06	2.29E-05	2.75E-08
2594	420666.2	3734909	7.51E-05	3.43E-04	7.51E-07	1.03E-05	4.70E-05	1.12E-07	6.32E-06	2.16E-05	2.60E-08
2595	420657.7	3734905	7.13E-05	3.26E-04	7.12E-07	9.77E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2596	420649.2	3734902	6.81E-05	3.11E-04	6.80E-07	9.33E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
2597	420640.6	3734899	6.53E-05	2.98E-04	6.52E-07	8.95E-06	4.08E-05	9.72E-08	5.49E-06	1.88E-05	2.26E-08
2598	420632.1	3734895	6.28E-05	2.87E-04	6.28E-07	8.61E-06	3.93E-05	9.35E-08	5.28E-06	1.80E-05	2.17E-08
2599	420623.6	3734892	6.04E-05	2.76E-04	6.04E-07	8.28E-06	3.78E-05	9.00E-08	5.08E-06	1.74E-05	2.09E-08
2600	420389.7	3734756	3.06E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
2601	420386.2	3734747	3.07E-05	1.40E-04	3.07E-07	4.21E-06	1.92E-05	4.57E-08	2.58E-06	8.81E-06	1.06E-08
2602	420382.6	3734739	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
2603	420379.1	3734730	3.08E-05	1.41E-04	3.08E-07	4.23E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
2604	420375.5	3734722	3.09E-05	1.41E-04	3.09E-07	4.23E-06	1.93E-05	4.60E-08	2.60E-06	8.87E-06	1.07E-08
2605	420372	3734713	3.09E-05	1.41E-04	3.09E-07	4.23E-06	1.93E-05	4.60E-08	2.60E-06	8.87E-06	1.07E-08
2606	420350.8	3734663	3.05E-05	1.39E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.76E-06	1.05E-08
2607	420343.7	3734646	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
2608	420340.1	3734637	3.01E-05	1.37E-04	3.00E-07	4.12E-06	1.88E-05	4.47E-08	2.53E-06	8.64E-06	1.04E-08
2609	420336.6	3734629	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
2610	420333.1	3734620	2.97E-05	1.36E-04	2.96E-07	4.07E-06	1.85E-05	4.41E-08	2.50E-06	8.52E-06	1.02E-08
2611	420683.2	3734916	8.48E-05	3.88E-04	8.48E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
2612	420692.4	3734916	9.26E-05	4.23E-04	9.25E-07	1.27E-05	5.79E-05	1.38E-07	7.79E-06	2.66E-05	3.20E-08
2613	420701.6	3734915	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.38E-05	1.52E-07	8.58E-06	2.93E-05	3.53E-08
2614	420710.7	3734915	1.13E-04	5.14E-04	1.12E-06	1.54E-05	7.03E-05	1.67E-07	9.47E-06	3.23E-05	3.89E-08
2615	420738.3	3734915	1.53E-04	6.99E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.29E-05	4.39E-05	5.28E-08
2616	420675.4	3734952	6.79E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.35E-08
2617	420658.7	3734946	6.09E-05	2.79E-04	6.09E-07	8.35E-06	3.81E-05	9.07E-08	5.13E-06	1.75E-05	2.11E-08
2618	420650.3	3734942	5.81E-05	2.66E-04	5.81E-07	7.97E-06	3.63E-05	8.65E-08	4.89E-06	1.67E-05	2.01E-08
2619	420633.6	3734936	5.33E-05	2.44E-04	5.33E-07	7.30E-06	3.33E-05	7.93E-08	4.48E-06	1.53E-05	1.84E-08
2620	420616.9	3734929	4.90E-05	2.24E-04	4.90E-07	6.72E-06	3.06E-05	7.30E-08	4.12E-06	1.41E-05	1.69E-08
2621	420575.1	3734912	4.04E-05	1.85E-04	4.04E-07	5.54E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
2622	420558.4	3734905	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
2623	420541.7	3734899	3.59E-05	1.64E-04	3.58E-07	4.92E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
2624	420533.3	3734895	3.50E-05	1.60E-04	3.49E-07	4.79E-06	2.19E-05	5.20E-08	2.94E-06	1.00E-05	1.21E-08
2625	420516.6	3734889	3.34E-05	1.53E-04	3.33E-07	4.57E-06	2.09E-05	4.97E-08	2.81E-06	9.59E-06	1.15E-08
2626	420499.9	3734882	3.20E-05	1.46E-04	3.20E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.19E-06	1.11E-08
2627	420458.1	3734865	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2628	420441.4	3734858	2.78E-05	1.27E-04	2.78E-07	3.81E-06	1.74E-05	4.14E-08	2.34E-06	7.99E-06	9.60E-09
2629	420399.6	3734842	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
2630	420351.6	3734760	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
2631	420344.6	3734743	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.69E-09
2632	420320.3	3734685	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.70E-08	2.09E-06	7.15E-06	8.60E-09
2633	420313.3	3734669	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
2634	420683.8	3734956	7.18E-05	3.28E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.04E-06	2.06E-05	2.48E-08
2635	420693	3734956	7.78E-05	3.56E-04	7.78E-07	1.07E-05	4.87E-05	1.16E-07	6.55E-06	2.24E-05	2.69E-08
2636	420702.1	3734955	8.45E-05	3.86E-04	8.45E-07	1.16E-05	5.28E-05	1.26E-07	7.11E-06	2.43E-05	2.92E-08
2637	420711.3	3734955	9.19E-05	4.20E-04	9.18E-07	1.26E-05	5.74E-05	1.37E-07	7.73E-06	2.64E-05	3.18E-08
2638	420729.7	3734955	1.10E-04	5.01E-04	1.10E-06	1.50E-05	6.86E-05	1.63E-07	9.23E-06	3.15E-05	3.79E-08
2639	420738.9	3734955	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.52E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
2640	420675.9	3734992	5.80E-05	2.65E-04	5.80E-07	7.95E-06	3.63E-05	8.63E-08	4.88E-06	1.67E-05	2.00E-08
2641	420667.4	3734989	5.50E-05	2.51E-04	5.49E-07	7.53E-06	3.44E-05	8.18E-08	4.62E-06	1.58E-05	1.90E-08
2642	420659	3734986	5.21E-05	2.38E-04	5.21E-07	7.15E-06	3.26E-05	7.76E-08	4.39E-06	1.50E-05	1.80E-08
2643	420650.5	3734982	4.94E-05	2.26E-04	4.94E-07	6.77E-06	3.09E-05	7.35E-08	4.16E-06	1.42E-05	1.71E-08
2644	420642.1	3734979	4.69E-05	2.15E-04	4.69E-07	6.43E-06	2.93E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
2645	420633.6	3734975	4.47E-05	2.04E-04	4.47E-07	6.13E-06	2.79E-05	6.65E-08	3.76E-06	1.28E-05	1.54E-08
2646	420625.2	3734972	4.30E-05	1.97E-04	4.30E-07	5.89E-06	2.69E-05	6.40E-08	3.62E-06	1.24E-05	1.49E-08
2647	420616.7	3734969	4.18E-05	1.91E-04	4.17E-07	5.72E-06	2.61E-05	6.22E-08	3.51E-06	1.20E-05	1.44E-08
2648	420608.3	3734965	4.02E-05	1.84E-04	4.01E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
2649	420599.8	3734962	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
2650	420591.4	3734958	3.71E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.12E-06	1.07E-05	1.28E-08
2651	420557.6	3734945	3.25E-05	1.48E-04	3.24E-07	4.45E-06	2.03E-05	4.83E-08	2.73E-06	9.33E-06	1.12E-08

2652	420549.1	3734941	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.06E-06	1.09E-08
2653	420540.7	3734938	3.05E-05	1.40E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.77E-06	1.05E-08
2654	420532.2	3734935	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.53E-06	1.03E-08
2655	420523.8	3734931	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2656	420515.3	3734928	2.83E-05	1.29E-04	2.82E-07	3.87E-06	1.77E-05	4.21E-08	2.38E-06	8.12E-06	9.77E-09
2657	420506.9	3734924	2.77E-05	1.27E-04	2.77E-07	3.79E-06	1.73E-05	4.12E-08	2.33E-06	7.95E-06	9.57E-09
2658	420498.4	3734921	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
2659	420490	3734918	2.67E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.24E-09
2660	420481.5	3734914	2.63E-05	1.20E-04	2.63E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
2661	420473.1	3734911	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.44E-06	8.95E-09
2662	420456.2	3734904	2.51E-05	1.15E-04	2.50E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.20E-06	8.66E-09
2663	420447.7	3734901	2.46E-05	1.13E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.51E-09
2664	420439.3	3734897	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.94E-06	8.34E-09
2665	420430.8	3734894	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.17E-09
2666	420422.4	3734891	2.32E-05	1.06E-04	2.32E-07	3.18E-06	1.45E-05	3.45E-08	1.95E-06	6.66E-06	8.01E-09
2667	420351.3	3734855	1.98E-05	9.07E-05	1.98E-07	2.72E-06	1.24E-05	2.95E-08	1.67E-06	5.70E-06	6.85E-09
2668	420330.2	3734805	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
2669	420323.1	3734788	2.08E-05	9.49E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
2670	420319.6	3734779	2.08E-05	9.51E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
2671	420291.5	3734712	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.95E-06	7.15E-09
2672	420288	3734704	2.06E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.13E-09
2673	420284.5	3734695	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
2674	420277.4	3734679	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
2675	420684.4	3734996	6.12E-05	2.80E-04	6.12E-07	8.39E-06	3.83E-05	9.11E-08	5.15E-06	1.76E-05	2.12E-08
2676	420693.5	3734996	6.60E-05	3.02E-04	6.60E-07	9.05E-06	4.13E-05	9.83E-08	5.55E-06	1.90E-05	2.28E-08
2677	420702.7	3734995	7.12E-05	3.26E-04	7.12E-07	9.77E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2678	420711.9	3734995	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.14E-07	6.47E-06	2.21E-05	2.66E-08
2679	420730.3	3734995	8.98E-05	4.11E-04	8.98E-07	1.23E-05	5.62E-05	1.34E-07	7.56E-06	2.58E-05	3.10E-08
2680	420739.5	3734995	9.71E-05	4.44E-04	9.70E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
2681	420676.6	3735032	4.91E-05	2.25E-04	4.91E-07	6.74E-06	3.07E-05	7.32E-08	4.13E-06	1.41E-05	1.70E-08
2682	420659.9	3735026	4.48E-05	2.05E-04	4.47E-07	6.14E-06	2.80E-05	6.66E-08	3.77E-06	1.29E-05	1.55E-08
2683	420651.6	3735022	4.27E-05	1.95E-04	4.27E-07	5.85E-06	2.67E-05	6.36E-08	3.59E-06	1.23E-05	1.48E-08
2684	420634.9	3735016	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
2685	420618.3	3735009	3.63E-05	1.66E-04	3.63E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
2686	420610	3735006	3.49E-05	1.60E-04	3.49E-07	4.78E-06	2.18E-05	5.19E-08	2.94E-06	1.00E-05	1.21E-08
2687	420593.3	3734999	3.24E-05	1.48E-04	3.24E-07	4.44E-06	2.03E-05	4.83E-08	2.73E-06	9.32E-06	1.12E-08
2688	420585	3734996	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.64E-06	9.00E-06	1.08E-08
2689	420543.3	3734979	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.30E-09
2690	420526.6	3734972	2.55E-05	1.17E-04	2.55E-07	3.50E-06	1.60E-05	3.80E-08	2.15E-06	7.34E-06	8.82E-09
2691	420518.3	3734969	2.48E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.11E-06	8.55E-09
2692	420501.6	3734962	2.37E-05	1.08E-04	2.37E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.18E-09
2693	420485	3734955	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.41E-08	1.93E-06	6.59E-06	7.92E-09
2694	420476.7	3734952	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.37E-08	1.90E-06	6.50E-06	7.81E-09
2695	420460	3734945	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
2696	420435	3734935	2.11E-05	9.63E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.28E-09
2697	420418.3	3734929	2.03E-05	9.26E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.70E-06	5.82E-06	7.00E-09
2698	420410	3734925	1.99E-05	9.09E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
2699	420323.2	3734884	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.80E-09
2700	420302.4	3734834	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
2701	420299	3734826	1.74E-05	7.95E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2702	420292	3734809	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.47E-06	5.01E-06	6.02E-09
2703	420285.1	3734792	1.75E-05	7.98E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.02E-06	6.03E-09
2704	420253.9	3734718	1.73E-05	7.93E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.99E-09
2705	420247	3734701	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
2706	420222.7	3734643	1.66E-05	7.59E-05	1.66E-07	2.28E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.74E-09
2707	420219.3	3734635	1.65E-05	7.54E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.74E-06	5.70E-09
2708	420684.9	3735036	5.15E-05	2.36E-04	5.15E-07	7.07E-06	3.22E-05	7.67E-08	4.34E-06	1.48E-05	1.78E-08
2709	420694.1	3735036	5.53E-05	2.53E-04	5.52E-07	7.58E-06	3.46E-05	8.23E-08	4.65E-06	1.59E-05	1.91E-08
2710	420703.3	3735035	5.93E-05	2.71E-04	5.93E-07	8.13E-06	3.71E-05	8.83E-08	4.99E-06	1.70E-05	2.05E-08

2711	420712.5	3735035	6.37E-05	2.91E-04	6.37E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
2712	420730.9	3735035	7.35E-05	3.36E-04	7.35E-07	1.01E-05	4.60E-05	1.09E-07	6.19E-06	2.11E-05	2.54E-08
2713	420677.1	3735072	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
2714	420668.7	3735069	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.50E-05	5.94E-08	3.36E-06	1.15E-05	1.38E-08
2715	420660.3	3735066	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.39E-05	5.70E-08	3.22E-06	1.10E-05	1.32E-08
2716	420651.9	3735062	3.67E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
2717	420643.5	3735059	3.52E-05	1.61E-04	3.52E-07	4.83E-06	2.20E-05	5.25E-08	2.97E-06	1.01E-05	1.22E-08
2718	420635	3735055	3.38E-05	1.55E-04	3.38E-07	4.64E-06	2.11E-05	5.04E-08	2.85E-06	9.72E-06	1.17E-08
2719	420626.6	3735052	3.27E-05	1.49E-04	3.27E-07	4.48E-06	2.04E-05	4.86E-08	2.75E-06	9.39E-06	1.13E-08
2720	420618.2	3735049	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.05E-06	1.09E-08
2721	420609.8	3735045	3.04E-05	1.39E-04	3.04E-07	4.16E-06	1.90E-05	4.52E-08	2.55E-06	8.73E-06	1.05E-08
2722	420270.6	3734853	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
2723	420267.1	3734845	1.49E-05	6.82E-05	1.49E-07	2.04E-06	9.33E-06	2.22E-08	1.26E-06	4.29E-06	5.15E-09
2724	420260.1	3734828	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.35E-06	2.23E-08	1.26E-06	4.30E-06	5.17E-09
2725	420232.1	3734761	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.32E-06	2.22E-08	1.25E-06	4.28E-06	5.15E-09
2726	420228.6	3734753	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.21E-08	1.25E-06	4.27E-06	5.14E-09
2727	420218.1	3734728	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
2728	420193.7	3734670	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.94E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
2729	420186.7	3734653	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2730	420179.7	3734636	1.39E-05	6.38E-05	1.39E-07	1.91E-06	8.72E-06	2.08E-08	1.17E-06	4.01E-06	4.82E-09
2731	420685.5	3735076	4.35E-05	1.99E-04	4.34E-07	5.96E-06	2.72E-05	6.47E-08	3.66E-06	1.25E-05	1.50E-08
2732	420694.7	3735076	4.64E-05	2.12E-04	4.64E-07	6.36E-06	2.90E-05	6.90E-08	3.90E-06	1.33E-05	1.60E-08
2733	420703.9	3735075	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.10E-05	7.37E-08	4.17E-06	1.42E-05	1.71E-08
2734	420731.4	3735075	6.05E-05	2.77E-04	6.05E-07	8.30E-06	3.79E-05	9.01E-08	5.09E-06	1.74E-05	2.09E-08
2735	420740.6	3735075	6.48E-05	2.96E-04	6.47E-07	8.88E-06	4.05E-05	9.64E-08	5.45E-06	1.86E-05	2.24E-08
2736	420643.7	3735099	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.52E-08	2.56E-06	8.73E-06	1.05E-08
2737	420635.2	3735095	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
2738	420626.7	3735092	2.85E-05	1.30E-04	2.85E-07	3.90E-06	1.78E-05	4.24E-08	2.40E-06	8.18E-06	9.84E-09
2739	420618.2	3735088	2.76E-05	1.26E-04	2.76E-07	3.78E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
2740	420609.8	3735085	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.20E-09
2741	420601.3	3735082	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
2742	420592.8	3735078	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.15E-06	8.59E-09
2743	420584.3	3735075	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.58E-08	2.03E-06	6.92E-06	8.32E-09
2744	420575.8	3735071	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.47E-08	1.96E-06	6.70E-06	8.06E-09
2745	420567.4	3735068	2.26E-05	1.04E-04	2.26E-07	3.10E-06	1.42E-05	3.37E-08	1.90E-06	6.51E-06	7.82E-09
2746	420558.9	3735065	2.20E-05	1.01E-04	2.20E-07	3.02E-06	1.38E-05	3.27E-08	1.85E-06	6.32E-06	7.60E-09
2747	420550.4	3735061	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.19E-08	1.80E-06	6.15E-06	7.39E-09
2748	420541.9	3735058	2.08E-05	9.53E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
2749	420516.5	3735048	1.94E-05	8.88E-05	1.94E-07	2.66E-06	1.21E-05	2.89E-08	1.63E-06	5.58E-06	6.71E-09
2750	420508	3735044	1.90E-05	8.69E-05	1.90E-07	2.60E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
2751	420499.5	3735041	1.86E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
2752	420491	3735037	1.81E-05	8.29E-05	1.81E-07	2.49E-06	1.13E-05	2.70E-08	1.53E-06	5.21E-06	6.27E-09
2753	420482.6	3735034	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.13E-09
2754	420474.1	3735031	1.74E-05	7.95E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2755	420465.6	3735027	1.71E-05	7.80E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.90E-06	5.90E-09
2756	420457.1	3735024	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.80E-09
2757	420448.6	3735020	1.65E-05	7.55E-05	1.65E-07	2.26E-06	1.03E-05	2.46E-08	1.39E-06	4.75E-06	5.71E-09
2758	420440.2	3735017	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.37E-06	4.69E-06	5.64E-09
2759	420431.7	3735014	1.62E-05	7.39E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.64E-06	5.58E-09
2760	420423.2	3735010	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
2761	420414.7	3735007	1.58E-05	7.23E-05	1.58E-07	2.17E-06	9.89E-06	2.36E-08	1.33E-06	4.55E-06	5.47E-09
2762	420406.2	3735003	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
2763	420397.7	3735000	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.74E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
2764	420389.3	3734997	1.54E-05	7.02E-05	1.54E-07	2.11E-06	9.60E-06	2.29E-08	1.29E-06	4.41E-06	5.31E-09
2765	420380.8	3734993	1.52E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.24E-09
2766	420372.3	3734990	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
2767	420363.8	3734986	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
2768	420287.5	3734956	1.28E-05	5.86E-05	1.28E-07	1.76E-06	8.01E-06	1.91E-08	1.08E-06	3.68E-06	4.43E-09
2769	420279	3734952	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09

2770	420267	3734940	1.24E-05	5.67E-05	1.24E-07	1.70E-06	7.76E-06	1.85E-08	1.04E-06	3.57E-06	4.29E-09
2771	420263.5	3734932	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
2772	420224.7	3734839	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.72E-06	4.47E-09
2773	420203.5	3734789	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
2774	420200	3734780	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.70E-06	4.44E-09
2775	420196.5	3734772	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.02E-06	1.91E-08	1.08E-06	3.69E-06	4.43E-09
2776	420192.9	3734763	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.90E-08	1.08E-06	3.68E-06	4.42E-09
2777	420161.2	3734687	1.24E-05	5.65E-05	1.24E-07	1.70E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
2778	420157.6	3734679	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2779	420150.6	3734662	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
2780	420147.1	3734654	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.56E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2781	420143.5	3734645	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
2782	420678.3	3735152	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.52E-08	2.56E-06	8.73E-06	1.05E-08
2783	420661.5	3735146	2.82E-05	1.29E-04	2.82E-07	3.87E-06	1.76E-05	4.20E-08	2.37E-06	8.11E-06	9.75E-09
2784	420644.8	3735139	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.12E-09
2785	420628	3735132	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.12E-06	8.57E-09
2786	420611.2	3735125	2.35E-05	1.07E-04	2.35E-07	3.22E-06	1.47E-05	3.50E-08	1.98E-06	6.75E-06	8.12E-09
2787	420602.9	3735122	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.41E-08	1.93E-06	6.58E-06	7.92E-09
2788	420586.1	3735115	2.15E-05	9.84E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
2789	420569.3	3735109	2.03E-05	9.28E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
2790	420561	3735105	1.97E-05	9.02E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.82E-09
2791	420552.6	3735102	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
2792	420535.8	3735095	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
2793	420502.3	3735082	1.65E-05	7.56E-05	1.65E-07	2.27E-06	1.03E-05	2.46E-08	1.39E-06	4.75E-06	5.71E-09
2794	420493.9	3735078	1.62E-05	7.42E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.66E-06	5.61E-09
2795	420485.5	3735075	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
2796	420477.1	3735072	1.56E-05	7.15E-05	1.56E-07	2.15E-06	9.78E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
2797	420460.4	3735065	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
2798	420443.6	3735058	1.47E-05	6.72E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.08E-09
2799	420426.9	3735051	1.44E-05	6.60E-05	1.44E-07	1.98E-06	9.03E-06	2.15E-08	1.22E-06	4.15E-06	4.99E-09
2800	420410.1	3735045	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2801	420401.7	3735041	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.01E-06	4.83E-09
2802	420384.9	3735035	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.54E-06	2.03E-08	1.15E-06	3.93E-06	4.72E-09
2803	420368.2	3735028	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
2804	420359.8	3735024	1.32E-05	6.03E-05	1.32E-07	1.81E-06	8.24E-06	1.96E-08	1.11E-06	3.79E-06	4.56E-09
2805	420351.4	3735021	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2806	420334.7	3735014	1.27E-05	5.82E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.66E-06	4.40E-09
2807	420259.2	3734984	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.37E-07	3.20E-06	3.85E-09
2808	420239	3734969	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2809	420232	3734952	1.10E-05	5.02E-05	1.10E-07	1.50E-06	6.86E-06	1.63E-08	9.23E-07	3.15E-06	3.79E-09
2810	420211.1	3734902	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2811	420204.1	3734886	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2812	420200.6	3734877	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2813	420172.7	3734811	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
2814	420169.2	3734802	1.12E-05	5.12E-05	1.12E-07	1.54E-06	7.00E-06	1.67E-08	9.43E-07	3.22E-06	3.87E-09
2815	420162.3	3734786	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
2816	420158.8	3734777	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
2817	420134.4	3734719	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
2818	420127.4	3734702	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.08E-07	3.10E-06	3.73E-09
2819	420120.4	3734686	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
2820	420113.5	3734669	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2821	420106.5	3734652	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2822	420103	3734644	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
2823	420096	3734627	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
2824	420686.7	3735156	3.16E-05	1.44E-04	3.16E-07	4.33E-06	1.97E-05	4.70E-08	2.66E-06	9.07E-06	1.09E-08
2825	420695.9	3735156	3.35E-05	1.53E-04	3.34E-07	4.59E-06	2.09E-05	4.98E-08	2.82E-06	9.62E-06	1.16E-08
2826	420705	3735155	3.55E-05	1.63E-04	3.55E-07	4.87E-06	2.22E-05	5.29E-08	2.99E-06	1.02E-05	1.23E-08
2827	420714.2	3735155	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
2828	420732.6	3735155	4.27E-05	1.95E-04	4.27E-07	5.85E-06	2.67E-05	6.35E-08	3.59E-06	1.23E-05	1.47E-08

2829	420741.8	3735155	4.53E-05	2.07E-04	4.53E-07	6.22E-06	2.83E-05	6.75E-08	3.81E-06	1.30E-05	1.57E-08
2830	420678.8	3735192	2.67E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.24E-09
2831	420670.4	3735189	2.58E-05	1.18E-04	2.58E-07	3.54E-06	1.61E-05	3.84E-08	2.17E-06	7.42E-06	8.92E-09
2832	420661.9	3735186	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.10E-06	7.16E-06	8.61E-09
2833	420653.5	3735182	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
2834	420645	3735179	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.73E-06	8.09E-09
2835	420636.6	3735175	2.27E-05	1.04E-04	2.27E-07	3.12E-06	1.42E-05	3.38E-08	1.91E-06	6.53E-06	7.85E-09
2836	420628.1	3735172	2.21E-05	1.01E-04	2.20E-07	3.02E-06	1.38E-05	3.28E-08	1.86E-06	6.34E-06	7.62E-09
2837	420619.7	3735169	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.18E-08	1.80E-06	6.14E-06	7.39E-09
2838	420611.3	3735165	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
2839	420602.8	3735162	2.01E-05	9.21E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.79E-06	6.96E-09
2840	420594.4	3735158	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.77E-09
2841	420585.9	3735155	1.91E-05	8.73E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
2842	420577.5	3735152	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
2843	420569	3735148	1.82E-05	8.30E-05	1.82E-07	2.49E-06	1.14E-05	2.70E-08	1.53E-06	5.22E-06	6.28E-09
2844	420560.6	3735145	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
2845	420552.1	3735141	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
2846	420543.7	3735138	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.80E-09
2847	420535.3	3735135	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
2848	420526.8	3735131	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
2849	420518.4	3735128	1.55E-05	7.09E-05	1.55E-07	2.12E-06	9.69E-06	2.31E-08	1.30E-06	4.45E-06	5.36E-09
2850	420509.9	3735124	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
2851	420484.6	3735114	1.42E-05	6.50E-05	1.42E-07	1.95E-06	8.89E-06	2.12E-08	1.20E-06	4.09E-06	4.91E-09
2852	420476.2	3735111	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.76E-06	2.09E-08	1.18E-06	4.03E-06	4.84E-09
2853	420467.7	3735108	1.38E-05	6.33E-05	1.38E-07	1.90E-06	8.65E-06	2.06E-08	1.16E-06	3.98E-06	4.78E-09
2854	420459.3	3735104	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.72E-09
2855	420450.8	3735101	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.44E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
2856	420442.4	3735097	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
2857	420433.9	3735094	1.32E-05	6.03E-05	1.32E-07	1.81E-06	8.25E-06	1.96E-08	1.11E-06	3.79E-06	4.56E-09
2858	420425.5	3735091	1.30E-05	5.97E-05	1.30E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2859	420417	3735087	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
2860	420408.6	3735084	1.28E-05	5.83E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.41E-09
2861	420400.2	3735080	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
2862	420391.7	3735077	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.79E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
2863	420383.3	3735074	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.71E-06	1.84E-08	1.04E-06	3.54E-06	4.26E-09
2864	420374.8	3735070	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
2865	420366.4	3735067	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.56E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2866	420357.9	3735063	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.13E-09
2867	420349.5	3735060	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
2868	420341	3735057	1.17E-05	5.34E-05	1.17E-07	1.60E-06	7.30E-06	1.74E-08	9.83E-07	3.36E-06	4.04E-09
2869	420332.6	3735053	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
2870	420324.2	3735050	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2871	420315.7	3735046	1.13E-05	5.15E-05	1.13E-07	1.54E-06	7.04E-06	1.68E-08	9.48E-07	3.24E-06	3.89E-09
2872	420307.3	3735043	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
2873	420298.8	3735040	1.10E-05	5.02E-05	1.10E-07	1.51E-06	6.87E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
2874	420290.4	3735036	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2875	420281.9	3735033	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.70E-06	1.59E-08	9.01E-07	3.08E-06	3.70E-09
2876	420273.5	3735030	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2877	420265	3735026	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.77E-07	3.00E-06	3.60E-09
2878	420256.6	3735023	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.96E-06	3.55E-09
2879	420248.2	3735019	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
2880	420239.7	3735016	1.00E-05	4.57E-05	9.99E-08	1.37E-06	6.25E-06	1.49E-08	8.41E-07	2.87E-06	3.46E-09
2881	420231.3	3735013	9.85E-06	4.50E-05	9.84E-08	1.35E-06	6.16E-06	1.47E-08	8.29E-07	2.83E-06	3.40E-09
2882	420222.8	3735009	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
2883	420210.9	3734997	9.58E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
2884	420207.4	3734989	9.63E-06	4.40E-05	9.63E-08	1.32E-06	6.02E-06	1.43E-08	8.10E-07	2.77E-06	3.33E-09
2885	420203.8	3734981	9.68E-06	4.42E-05	9.67E-08	1.33E-06	6.05E-06	1.44E-08	8.14E-07	2.78E-06	3.34E-09
2886	420196.8	3734964	9.76E-06	4.46E-05	9.75E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.80E-06	3.37E-09
2887	420189.8	3734947	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09

2888	420182.8	3734930	9.86E-06	4.51E-05	9.86E-08	1.35E-06	6.17E-06	1.47E-08	8.30E-07	2.83E-06	3.41E-09
2889	420179.3	3734922	9.88E-06	4.52E-05	9.88E-08	1.35E-06	6.18E-06	1.47E-08	8.31E-07	2.84E-06	3.41E-09
2890	420172.2	3734905	9.92E-06	4.53E-05	9.91E-08	1.36E-06	6.20E-06	1.48E-08	8.34E-07	2.85E-06	3.43E-09
2891	420165.2	3734888	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
2892	420133.6	3734813	9.84E-06	4.50E-05	9.84E-08	1.35E-06	6.15E-06	1.47E-08	8.28E-07	2.83E-06	3.40E-09
2893	420130.1	3734804	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2894	420098.5	3734729	9.48E-06	4.33E-05	9.48E-08	1.30E-06	5.93E-06	1.41E-08	7.98E-07	2.72E-06	3.28E-09
2895	420091.4	3734712	9.36E-06	4.28E-05	9.36E-08	1.28E-06	5.85E-06	1.39E-08	7.88E-07	2.69E-06	3.24E-09
2896	420087.9	3734704	9.31E-06	4.26E-05	9.30E-08	1.28E-06	5.82E-06	1.39E-08	7.83E-07	2.67E-06	3.22E-09
2897	420080.9	3734687	9.26E-06	4.24E-05	9.26E-08	1.27E-06	5.79E-06	1.38E-08	7.79E-07	2.66E-06	3.20E-09
2898	420073.9	3734670	9.23E-06	4.22E-05	9.22E-08	1.26E-06	5.77E-06	1.37E-08	7.76E-07	2.65E-06	3.19E-09
2899	420066.9	3734653	9.12E-06	4.17E-05	9.12E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
2900	420063.3	3734645	9.07E-06	4.15E-05	9.06E-08	1.24E-06	5.67E-06	1.35E-08	7.63E-07	2.61E-06	3.13E-09
2901	420056.3	3734628	8.95E-06	4.09E-05	8.94E-08	1.23E-06	5.60E-06	1.33E-08	7.53E-07	2.57E-06	3.09E-09
2902	420687.3	3735196	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.96E-06	9.58E-09
2903	420696.4	3735196	2.93E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
2904	420705.6	3735195	3.10E-05	1.42E-04	3.09E-07	4.24E-06	1.94E-05	4.61E-08	2.60E-06	8.90E-06	1.07E-08
2905	420733.2	3735195	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
2906	420742.4	3735195	3.95E-05	1.80E-04	3.94E-07	5.41E-06	2.47E-05	5.87E-08	3.32E-06	1.13E-05	1.36E-08
2907	420679.3	3735232	2.38E-05	1.09E-04	2.38E-07	3.27E-06	1.49E-05	3.55E-08	2.01E-06	6.85E-06	8.24E-09
2908	420670.8	3735229	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.62E-06	7.96E-09
2909	420662.3	3735225	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.71E-09
2910	420653.8	3735222	2.16E-05	9.89E-05	2.16E-07	2.96E-06	1.35E-05	3.22E-08	1.82E-06	6.21E-06	7.47E-09
2911	420645.3	3735219	2.10E-05	9.59E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
2912	420636.8	3735215	2.04E-05	9.31E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.04E-09
2913	420628.3	3735212	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
2914	420619.8	3735208	1.92E-05	8.79E-05	1.92E-07	2.64E-06	1.20E-05	2.86E-08	1.62E-06	5.53E-06	6.65E-09
2915	420611.3	3735205	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.38E-06	6.46E-09
2916	420602.8	3735202	1.82E-05	8.32E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
2917	420594.3	3735198	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
2918	420585.8	3735195	1.72E-05	7.86E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
2919	420577.3	3735191	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.81E-06	5.78E-09
2920	420568.8	3735188	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.63E-09
2921	420560.3	3735184	1.59E-05	7.25E-05	1.59E-07	2.17E-06	9.92E-06	2.36E-08	1.33E-06	4.56E-06	5.48E-09
2922	420551.8	3735181	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.67E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
2923	420543.3	3735178	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.43E-06	2.25E-08	1.27E-06	4.34E-06	5.21E-09
2924	420534.8	3735174	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
2925	420526.3	3735171	1.44E-05	6.58E-05	1.44E-07	1.97E-06	9.00E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
2926	420517.8	3735167	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
2927	420509.3	3735164	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
2928	420500.8	3735161	1.34E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.86E-06	4.65E-09
2929	420466.8	3735147	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
2930	420458.3	3735144	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
2931	420449.8	3735140	1.23E-05	5.62E-05	1.23E-07	1.68E-06	7.68E-06	1.83E-08	1.03E-06	3.53E-06	4.25E-09
2932	420441.3	3735137	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.59E-06	1.81E-08	1.02E-06	3.49E-06	4.19E-09
2933	420432.8	3735133	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
2934	420424.3	3735130	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	9.99E-07	3.41E-06	4.10E-09
2935	420415.8	3735126	1.17E-05	5.37E-05	1.17E-07	1.61E-06	7.34E-06	1.75E-08	9.87E-07	3.37E-06	4.06E-09
2936	420407.3	3735123	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.76E-07	3.33E-06	4.01E-09
2937	420398.8	3735120	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
2938	420390.3	3735116	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
2939	420381.8	3735113	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.01E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
2940	420373.3	3735109	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.93E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
2941	420364.8	3735106	1.09E-05	5.00E-05	1.09E-07	1.50E-06	6.84E-06	1.63E-08	9.20E-07	3.14E-06	3.78E-09
2942	420356.3	3735103	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
2943	420347.8	3735099	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.03E-07	3.08E-06	3.71E-09
2944	420339.3	3735096	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.65E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
2945	420330.8	3735092	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
2946	420322.3	3735089	1.04E-05	4.76E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.60E-09

2947	420313.8	3735085	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
2948	420305.3	3735082	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
2949	420296.8	3735079	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
2950	420288.3	3735075	9.94E-06	4.55E-05	9.94E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
2951	420279.8	3735072	9.83E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.27E-07	2.82E-06	3.40E-09
2952	420271.3	3735068	9.71E-06	4.44E-05	9.71E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.36E-09
2953	420262.8	3735065	9.59E-06	4.39E-05	9.59E-08	1.32E-06	6.00E-06	1.43E-08	8.07E-07	2.76E-06	3.32E-09
2954	420254.3	3735062	9.48E-06	4.33E-05	9.47E-08	1.30E-06	5.92E-06	1.41E-08	7.97E-07	2.72E-06	3.27E-09
2955	420245.8	3735058	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
2956	420237.3	3735055	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
2957	420228.8	3735051	9.12E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
2958	420220.3	3735048	9.00E-06	4.11E-05	8.99E-08	1.23E-06	5.63E-06	1.34E-08	7.57E-07	2.59E-06	3.11E-09
2959	420211.8	3735045	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
2960	420203.3	3735041	8.76E-06	4.00E-05	8.75E-08	1.20E-06	5.48E-06	1.30E-08	7.37E-07	2.52E-06	3.03E-09
2961	420194.8	3735038	8.64E-06	3.95E-05	8.64E-08	1.18E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.99E-09
2962	420182.8	3735026	8.56E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2963	420175.7	3735009	8.63E-06	3.94E-05	8.62E-08	1.18E-06	5.39E-06	1.28E-08	7.26E-07	2.48E-06	2.98E-09
2964	420172.2	3735000	8.65E-06	3.95E-05	8.64E-08	1.19E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.99E-09
2965	420168.6	3734992	8.68E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
2966	420165.1	3734984	8.70E-06	3.98E-05	8.70E-08	1.19E-06	5.44E-06	1.30E-08	7.32E-07	2.50E-06	3.01E-09
2967	420158	3734967	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2968	420154.5	3734958	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
2969	420150.9	3734950	8.81E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.05E-09
2970	420147.4	3734941	8.82E-06	4.03E-05	8.82E-08	1.21E-06	5.52E-06	1.31E-08	7.42E-07	2.54E-06	3.05E-09
2971	420140.3	3734924	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2972	420136.8	3734916	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2973	420133.3	3734908	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2974	420129.7	3734899	8.83E-06	4.04E-05	8.82E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2975	420122.7	3734882	8.82E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.42E-07	2.53E-06	3.05E-09
2976	420119.1	3734874	8.81E-06	4.03E-05	8.80E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.04E-09
2977	420115.6	3734865	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2978	420112	3734857	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
2979	420105	3734840	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2980	420101.4	3734831	8.74E-06	4.00E-05	8.74E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2981	420076.7	3734772	8.59E-06	3.93E-05	8.58E-08	1.18E-06	5.37E-06	1.28E-08	7.22E-07	2.47E-06	2.97E-09
2982	420069.6	3734755	8.52E-06	3.90E-05	8.52E-08	1.17E-06	5.33E-06	1.27E-08	7.17E-07	2.45E-06	2.94E-09
2983	420059	3734730	8.39E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
2984	420051.9	3734713	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
2985	420048.4	3734705	8.17E-06	3.74E-05	8.17E-08	1.12E-06	5.11E-06	1.22E-08	6.88E-07	2.35E-06	2.82E-09
2986	420044.9	3734696	8.13E-06	3.72E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
2987	420041.3	3734688	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
2988	420034.3	3734671	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
2989	420030.7	3734662	8.04E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2990	420027.2	3734654	8.04E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2991	420023.6	3734646	7.99E-06	3.65E-05	7.98E-08	1.09E-06	4.99E-06	1.19E-08	6.72E-07	2.29E-06	2.76E-09
2992	420687.8	3735236	2.47E-05	1.13E-04	2.47E-07	3.38E-06	1.54E-05	3.67E-08	2.08E-06	7.09E-06	8.53E-09
2993	420697	3735236	2.59E-05	1.19E-04	2.59E-07	3.56E-06	1.62E-05	3.86E-08	2.18E-06	7.45E-06	8.96E-09
2994	420706.2	3735235	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.84E-06	9.43E-09
2995	420733.8	3735235	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.22E-06	1.11E-08
2996	420743	3735235	3.39E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.75E-06	1.17E-08
2997	420771.6	3734562	1.30E-02	5.93E-02	1.30E-04	1.78E-03	8.11E-03	1.93E-05	1.09E-03	3.73E-03	4.48E-06
2998	420782.1	3734561	1.10E-02	5.01E-02	1.10E-04	1.50E-03	6.85E-03	1.63E-05	9.22E-04	3.15E-03	3.79E-06
2999	420766.7	3734581	1.05E-02	4.78E-02	1.04E-04	1.43E-03	6.54E-03	1.56E-05	8.79E-04	3.00E-03	3.61E-06
3000	420793	3734527	9.67E-03	4.42E-02	9.66E-05	1.33E-03	6.04E-03	1.44E-05	8.13E-04	2.78E-03	3.34E-06
3001	420793.3	3734517	9.18E-03	4.20E-02	9.17E-05	1.26E-03	5.74E-03	1.37E-05	7.72E-04	2.64E-03	3.17E-06
3002	420793.6	3734507	8.46E-03	3.87E-02	8.45E-05	1.16E-03	5.29E-03	1.26E-05	7.12E-04	2.43E-03	2.92E-06
3003	420792.4	3734561	9.24E-03	4.22E-02	9.23E-05	1.27E-03	5.78E-03	1.38E-05	7.77E-04	2.65E-03	3.19E-06
3004	420785.5	3734577	8.97E-03	4.10E-02	8.97E-05	1.23E-03	5.61E-03	1.34E-05	7.55E-04	2.58E-03	3.10E-06
3005	420774	3734588	8.79E-03	4.02E-02	8.78E-05	1.20E-03	5.49E-03	1.31E-05	7.39E-04	2.52E-03	3.04E-06

3006	420757.9	3734595	8.54E-03	3.90E-02	8.53E-05	1.17E-03	5.34E-03	1.27E-05	7.18E-04	2.45E-03	2.95E-06
3007	420803	3734527	7.78E-03	3.56E-02	7.78E-05	1.07E-03	4.86E-03	1.16E-05	6.54E-04	2.24E-03	2.69E-06
3008	420803.3	3734517	7.33E-03	3.35E-02	7.32E-05	1.00E-03	4.58E-03	1.09E-05	6.16E-04	2.11E-03	2.53E-06
3009	420803.6	3734507	6.72E-03	3.07E-02	6.72E-05	9.22E-04	4.20E-03	1.00E-05	5.66E-04	1.93E-03	2.32E-06
3010	420800.9	3734564	7.86E-03	3.59E-02	7.86E-05	1.08E-03	4.91E-03	1.17E-05	6.61E-04	2.26E-03	2.72E-06
3011	420796.9	3734574	7.88E-03	3.60E-02	7.88E-05	1.08E-03	4.93E-03	1.17E-05	6.63E-04	2.26E-03	2.72E-06
3012	420793	3734583	7.68E-03	3.51E-02	7.67E-05	1.05E-03	4.80E-03	1.14E-05	6.46E-04	2.21E-03	2.65E-06
3013	420779.8	3734596	7.50E-03	3.43E-02	7.50E-05	1.03E-03	4.69E-03	1.12E-05	6.31E-04	2.16E-03	2.59E-06
3014	420770.7	3734600	7.49E-03	3.43E-02	7.49E-05	1.03E-03	4.68E-03	1.12E-05	6.30E-04	2.15E-03	2.59E-06
3015	420761.5	3734603	7.21E-03	3.30E-02	7.20E-05	9.88E-04	4.51E-03	1.07E-05	6.06E-04	2.07E-03	2.49E-06
3016	420812.8	3734537	6.60E-03	3.02E-02	6.60E-05	9.05E-04	4.13E-03	9.83E-06	5.56E-04	1.90E-03	2.28E-06
3017	420813	3734527	6.34E-03	2.90E-02	6.33E-05	8.69E-04	3.96E-03	9.43E-06	5.33E-04	1.82E-03	2.19E-06
3018	420813.3	3734517	5.94E-03	2.71E-02	5.93E-05	8.14E-04	3.71E-03	8.84E-06	4.99E-04	1.71E-03	2.05E-06
3019	420813.6	3734507	5.44E-03	2.49E-02	5.44E-05	7.46E-04	3.40E-03	8.10E-06	4.58E-04	1.56E-03	1.88E-06
3020	420811.3	3734564	6.67E-03	3.05E-02	6.67E-05	9.14E-04	4.17E-03	9.93E-06	5.61E-04	1.92E-03	2.30E-06
3021	420807.5	3734573	6.80E-03	3.11E-02	6.80E-05	9.33E-04	4.25E-03	1.01E-05	5.72E-04	1.95E-03	2.35E-06
3022	420803.7	3734581	6.78E-03	3.10E-02	6.77E-05	9.29E-04	4.24E-03	1.01E-05	5.70E-04	1.95E-03	2.34E-06
3023	420799.9	3734590	6.59E-03	3.01E-02	6.59E-05	9.04E-04	4.12E-03	9.81E-06	5.55E-04	1.89E-03	2.28E-06
3024	420787.2	3734603	6.46E-03	2.95E-02	6.46E-05	8.86E-04	4.04E-03	9.62E-06	5.44E-04	1.86E-03	2.23E-06
3025	420778.3	3734606	6.48E-03	2.96E-02	6.48E-05	8.89E-04	4.05E-03	9.65E-06	5.46E-04	1.86E-03	2.24E-06
3026	420769.5	3734610	6.32E-03	2.89E-02	6.31E-05	8.66E-04	3.95E-03	9.40E-06	5.31E-04	1.82E-03	2.18E-06
3027	420760.6	3734614	5.94E-03	2.72E-02	5.94E-05	8.15E-04	3.72E-03	8.85E-06	5.00E-04	1.71E-03	2.05E-06
3028	420751.8	3734618	5.39E-03	2.46E-02	5.38E-05	7.38E-04	3.37E-03	8.02E-06	4.53E-04	1.55E-03	1.86E-06
3029	420822.8	3734537	5.49E-03	2.51E-02	5.48E-05	7.52E-04	3.43E-03	8.17E-06	4.62E-04	1.58E-03	1.90E-06
3030	420823	3734527	5.23E-03	2.39E-02	5.23E-05	7.17E-04	3.27E-03	7.79E-06	4.40E-04	1.50E-03	1.81E-06
3031	420823.3	3734517	4.88E-03	2.23E-02	4.88E-05	6.69E-04	3.05E-03	7.27E-06	4.11E-04	1.40E-03	1.69E-06
3032	420823.6	3734507	4.47E-03	2.04E-02	4.46E-05	6.12E-04	2.79E-03	6.65E-06	3.76E-04	1.28E-03	1.54E-06
3033	420821.6	3734563	5.67E-03	2.59E-02	5.67E-05	7.78E-04	3.55E-03	8.44E-06	4.77E-04	1.63E-03	1.96E-06
3034	420817.9	3734572	5.86E-03	2.68E-02	5.85E-05	8.03E-04	3.66E-03	8.72E-06	4.93E-04	1.68E-03	2.02E-06
3035	420814.2	3734580	5.93E-03	2.71E-02	5.92E-05	8.12E-04	3.71E-03	8.82E-06	4.99E-04	1.70E-03	2.05E-06
3036	420810.5	3734589	5.88E-03	2.69E-02	5.88E-05	8.06E-04	3.68E-03	8.75E-06	4.95E-04	1.69E-03	2.03E-06
3037	420806.8	3734598	5.72E-03	2.62E-02	5.72E-05	7.84E-04	3.58E-03	8.52E-06	4.81E-04	1.64E-03	1.98E-06
3038	420794.5	3734610	5.62E-03	2.57E-02	5.62E-05	7.70E-04	3.51E-03	8.37E-06	4.73E-04	1.61E-03	1.94E-06
3039	420785.9	3734613	5.66E-03	2.59E-02	5.66E-05	7.76E-04	3.54E-03	8.42E-06	4.76E-04	1.63E-03	1.96E-06
3040	420777.3	3734617	5.56E-03	2.54E-02	5.56E-05	7.62E-04	3.47E-03	8.27E-06	4.68E-04	1.60E-03	1.92E-06
3041	420768.7	3734621	5.31E-03	2.43E-02	5.31E-05	7.28E-04	3.32E-03	7.91E-06	4.47E-04	1.53E-03	1.84E-06
3042	420760.1	3734624	4.92E-03	2.25E-02	4.92E-05	6.75E-04	3.08E-03	7.32E-06	4.14E-04	1.41E-03	1.70E-06
3043	420751.5	3734628	4.41E-03	2.02E-02	4.41E-05	6.05E-04	2.76E-03	6.57E-06	3.71E-04	1.27E-03	1.53E-06
3044	420832.8	3734538	4.60E-03	2.10E-02	4.60E-05	6.31E-04	2.88E-03	6.85E-06	3.87E-04	1.32E-03	1.59E-06
3045	420833	3734528	4.37E-03	2.00E-02	4.36E-05	5.98E-04	2.73E-03	6.50E-06	3.67E-04	1.25E-03	1.51E-06
3046	420833.3	3734518	4.06E-03	1.86E-02	4.06E-05	5.57E-04	2.54E-03	6.05E-06	3.42E-04	1.17E-03	1.40E-06
3047	420833.6	3734508	3.72E-03	1.70E-02	3.71E-05	5.09E-04	2.32E-03	5.53E-06	3.13E-04	1.07E-03	1.28E-06
3048	420840.9	3734566	4.23E-03	1.93E-02	4.23E-05	5.80E-04	2.64E-03	6.29E-06	3.56E-04	1.21E-03	1.46E-06
3049	420836.9	3734575	4.43E-03	2.02E-02	4.42E-05	6.07E-04	2.77E-03	6.59E-06	3.72E-04	1.27E-03	1.53E-06
3050	420833	3734584	4.55E-03	2.08E-02	4.55E-05	6.24E-04	2.85E-03	6.78E-06	3.83E-04	1.31E-03	1.57E-06
3051	420829	3734593	4.60E-03	2.10E-02	4.59E-05	6.30E-04	2.87E-03	6.84E-06	3.87E-04	1.32E-03	1.59E-06
3052	420825	3734602	4.56E-03	2.08E-02	4.56E-05	6.25E-04	2.85E-03	6.79E-06	3.83E-04	1.31E-03	1.58E-06
3053	420821.1	3734611	4.44E-03	2.03E-02	4.44E-05	6.09E-04	2.78E-03	6.61E-06	3.74E-04	1.28E-03	1.53E-06
3054	420808	3734624	4.37E-03	2.00E-02	4.37E-05	6.00E-04	2.74E-03	6.51E-06	3.68E-04	1.26E-03	1.51E-06
3055	420798.8	3734628	4.41E-03	2.02E-02	4.41E-05	6.05E-04	2.76E-03	6.57E-06	3.71E-04	1.27E-03	1.53E-06
3056	420789.6	3734632	4.35E-03	1.99E-02	4.35E-05	5.96E-04	2.72E-03	6.48E-06	3.66E-04	1.25E-03	1.50E-06
3057	420780.4	3734636	4.18E-03	1.91E-02	4.18E-05	5.73E-04	2.62E-03	6.23E-06	3.52E-04	1.20E-03	1.45E-06
3058	420771.2	3734640	3.91E-03	1.79E-02	3.91E-05	5.37E-04	2.45E-03	5.83E-06	3.29E-04	1.12E-03	1.35E-06
3059	420762.1	3734643	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.22E-03	5.30E-06	2.99E-04	1.02E-03	1.23E-06
3060	420752.9	3734647	3.14E-03	1.43E-02	3.14E-05	4.30E-04	1.96E-03	4.67E-06	2.64E-04	9.02E-04	1.08E-06
3061	420743.7	3734651	2.69E-03	1.23E-02	2.69E-05	3.68E-04	1.68E-03	4.00E-06	2.26E-04	7.72E-04	9.29E-07
3062	420861.4	3734565	3.15E-03	1.44E-02	3.15E-05	4.32E-04	1.97E-03	4.70E-06	2.65E-04	9.06E-04	1.09E-06
3063	420857.6	3734574	3.34E-03	1.53E-02	3.34E-05	4.58E-04	2.09E-03	4.97E-06	2.81E-04	9.59E-04	1.15E-06
3064	420853.9	3734582	3.49E-03	1.59E-02	3.48E-05	4.78E-04	2.18E-03	5.19E-06	2.93E-04	1.00E-03	1.20E-06

3065	420850.1	3734591	3.59E-03	1.64E-02	3.59E-05	4.92E-04	2.25E-03	5.35E-06	3.02E-04	1.03E-03	1.24E-06
3066	420846.3	3734600	3.65E-03	1.67E-02	3.65E-05	5.00E-04	2.28E-03	5.43E-06	3.07E-04	1.05E-03	1.26E-06
3067	420842.5	3734608	3.66E-03	1.67E-02	3.66E-05	5.02E-04	2.29E-03	5.45E-06	3.08E-04	1.05E-03	1.26E-06
3068	420838.7	3734617	3.62E-03	1.65E-02	3.62E-05	4.96E-04	2.26E-03	5.39E-06	3.04E-04	1.04E-03	1.25E-06
3069	420835	3734626	3.53E-03	1.61E-02	3.53E-05	4.84E-04	2.21E-03	5.25E-06	2.97E-04	1.01E-03	1.22E-06
3070	420822.4	3734638	3.49E-03	1.60E-02	3.49E-05	4.79E-04	2.18E-03	5.20E-06	2.94E-04	1.00E-03	1.21E-06
3071	420813.7	3734642	3.53E-03	1.61E-02	3.53E-05	4.84E-04	2.21E-03	5.25E-06	2.97E-04	1.01E-03	1.22E-06
3072	420804.9	3734646	3.51E-03	1.61E-02	3.51E-05	4.81E-04	2.19E-03	5.23E-06	2.95E-04	1.01E-03	1.21E-06
3073	420796.1	3734649	3.43E-03	1.57E-02	3.43E-05	4.71E-04	2.15E-03	5.11E-06	2.89E-04	9.87E-04	1.19E-06
3074	420787.4	3734653	3.29E-03	1.50E-02	3.29E-05	4.51E-04	2.06E-03	4.90E-06	2.77E-04	9.46E-04	1.14E-06
3075	420778.6	3734657	3.09E-03	1.41E-02	3.09E-05	4.23E-04	1.93E-03	4.60E-06	2.60E-04	8.88E-04	1.07E-06
3076	420769.9	3734660	2.83E-03	1.30E-02	2.83E-05	3.89E-04	1.77E-03	4.22E-06	2.38E-04	8.14E-04	9.79E-07
3077	420761.1	3734664	2.54E-03	1.16E-02	2.54E-05	3.49E-04	1.59E-03	3.79E-06	2.14E-04	7.31E-04	8.79E-07
3078	420752.3	3734668	2.23E-03	1.02E-02	2.23E-05	3.06E-04	1.40E-03	3.32E-06	1.88E-04	6.41E-04	7.71E-07
3079	420743.6	3734671	1.92E-03	8.78E-03	1.92E-05	2.63E-04	1.20E-03	2.86E-06	1.62E-04	5.52E-04	6.64E-07
3080	420880.9	3734567	2.44E-03	1.12E-02	2.44E-05	3.35E-04	1.53E-03	3.64E-06	2.06E-04	7.02E-04	8.45E-07
3081	420876.9	3734576	2.60E-03	1.19E-02	2.60E-05	3.57E-04	1.63E-03	3.88E-06	2.19E-04	7.48E-04	9.00E-07
3082	420872.9	3734585	2.74E-03	1.25E-02	2.74E-05	3.76E-04	1.71E-03	4.08E-06	2.30E-04	7.87E-04	9.47E-07
3083	420869	3734594	2.85E-03	1.30E-02	2.85E-05	3.91E-04	1.78E-03	4.24E-06	2.40E-04	8.19E-04	9.85E-07
3084	420865	3734603	2.93E-03	1.34E-02	2.93E-05	4.02E-04	1.83E-03	4.36E-06	2.47E-04	8.42E-04	1.01E-06
3085	420861.1	3734612	2.97E-03	1.36E-02	2.97E-05	4.07E-04	1.86E-03	4.42E-06	2.50E-04	8.54E-04	1.03E-06
3086	420857.1	3734621	2.98E-03	1.36E-02	2.97E-05	4.08E-04	1.86E-03	4.43E-06	2.50E-04	8.55E-04	1.03E-06
3087	420853.2	3734631	2.94E-03	1.35E-02	2.94E-05	4.03E-04	1.84E-03	4.38E-06	2.48E-04	8.45E-04	1.02E-06
3088	420849.2	3734640	2.87E-03	1.31E-02	2.87E-05	3.94E-04	1.80E-03	4.28E-06	2.42E-04	8.26E-04	9.93E-07
3089	420836.1	3734653	2.85E-03	1.30E-02	2.84E-05	3.90E-04	1.78E-03	4.24E-06	2.39E-04	8.18E-04	9.83E-07
3090	420826.9	3734656	2.88E-03	1.32E-02	2.88E-05	3.95E-04	1.80E-03	4.28E-06	2.42E-04	8.27E-04	9.95E-07
3091	420817.7	3734660	2.87E-03	1.31E-02	2.87E-05	3.93E-04	1.79E-03	4.27E-06	2.41E-04	8.24E-04	9.91E-07
3092	420808.5	3734664	2.81E-03	1.29E-02	2.81E-05	3.85E-04	1.76E-03	4.19E-06	2.37E-04	8.08E-04	9.72E-07
3093	420799.4	3734668	2.71E-03	1.24E-02	2.71E-05	3.72E-04	1.70E-03	4.04E-06	2.28E-04	7.79E-04	9.37E-07
3094	420790.2	3734672	2.57E-03	1.17E-02	2.56E-05	3.52E-04	1.60E-03	3.82E-06	2.16E-04	7.37E-04	8.87E-07
3095	420781	3734676	2.38E-03	1.09E-02	2.38E-05	3.26E-04	1.49E-03	3.54E-06	2.00E-04	6.84E-04	8.23E-07
3096	420771.8	3734680	2.16E-03	9.89E-03	2.16E-05	2.96E-04	1.35E-03	3.22E-06	1.82E-04	6.21E-04	7.47E-07
3097	420762.6	3734683	1.92E-03	8.80E-03	1.92E-05	2.64E-04	1.20E-03	2.86E-06	1.62E-04	5.53E-04	6.65E-07
3098	420753.5	3734687	1.68E-03	7.67E-03	1.68E-05	2.30E-04	1.05E-03	2.50E-06	1.41E-04	4.82E-04	5.80E-07
3099	420744.3	3734691	1.44E-03	6.58E-03	1.44E-05	1.97E-04	8.99E-04	2.14E-06	1.21E-04	4.13E-04	4.97E-07
3100	420893	3734529	1.76E-03	8.03E-03	1.76E-05	2.41E-04	1.10E-03	2.62E-06	1.48E-04	5.05E-04	6.07E-07
3101	420893.3	3734519	1.64E-03	7.48E-03	1.63E-05	2.24E-04	1.02E-03	2.43E-06	1.38E-04	4.70E-04	5.65E-07
3102	420893.5	3734509	1.51E-03	6.88E-03	1.50E-05	2.06E-04	9.41E-04	2.24E-06	1.27E-04	4.33E-04	5.20E-07
3103	420901.3	3734566	1.88E-03	8.57E-03	1.87E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
3104	420897.5	3734575	2.01E-03	9.21E-03	2.01E-05	2.76E-04	1.26E-03	3.00E-06	1.69E-04	5.79E-04	6.96E-07
3105	420893.6	3734584	2.14E-03	9.79E-03	2.14E-05	2.94E-04	1.34E-03	3.19E-06	1.80E-04	6.16E-04	7.40E-07
3106	420889.8	3734593	2.25E-03	1.03E-02	2.25E-05	3.08E-04	1.41E-03	3.35E-06	1.89E-04	6.46E-04	7.77E-07
3107	420886	3734601	2.33E-03	1.07E-02	2.33E-05	3.20E-04	1.46E-03	3.47E-06	1.96E-04	6.71E-04	8.07E-07
3108	420882.2	3734610	2.40E-03	1.10E-02	2.40E-05	3.29E-04	1.50E-03	3.58E-06	2.02E-04	6.90E-04	8.30E-07
3109	420878.4	3734619	2.44E-03	1.12E-02	2.44E-05	3.35E-04	1.53E-03	3.64E-06	2.06E-04	7.03E-04	8.45E-07
3110	420874.6	3734628	2.46E-03	1.13E-02	2.46E-05	3.38E-04	1.54E-03	3.67E-06	2.07E-04	7.08E-04	8.52E-07
3111	420870.7	3734637	2.46E-03	1.12E-02	2.46E-05	3.37E-04	1.54E-03	3.66E-06	2.07E-04	7.07E-04	8.50E-07
3112	420866.9	3734645	2.43E-03	1.11E-02	2.43E-05	3.33E-04	1.52E-03	3.62E-06	2.04E-04	6.98E-04	8.39E-07
3113	420863.1	3734654	2.38E-03	1.09E-02	2.37E-05	3.26E-04	1.48E-03	3.54E-06	2.00E-04	6.82E-04	8.21E-07
3114	420850.4	3734667	2.35E-03	1.08E-02	2.35E-05	3.23E-04	1.47E-03	3.50E-06	1.98E-04	6.76E-04	8.13E-07
3115	420841.6	3734670	2.38E-03	1.09E-02	2.38E-05	3.26E-04	1.49E-03	3.54E-06	2.00E-04	6.84E-04	8.23E-07
3116	420832.7	3734674	2.39E-03	1.09E-02	2.39E-05	3.27E-04	1.49E-03	3.55E-06	2.01E-04	6.86E-04	8.25E-07
3117	420823.9	3734678	2.37E-03	1.08E-02	2.36E-05	3.24E-04	1.48E-03	3.52E-06	1.99E-04	6.80E-04	8.17E-07
3118	420815	3734682	2.31E-03	1.06E-02	2.31E-05	3.17E-04	1.44E-03	3.44E-06	1.94E-04	6.63E-04	7.98E-07
3119	420806.2	3734685	2.22E-03	1.02E-02	2.22E-05	3.05E-04	1.39E-03	3.31E-06	1.87E-04	6.38E-04	7.68E-07
3120	420797.4	3734689	2.11E-03	9.63E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.77E-04	6.05E-04	7.28E-07
3121	420788.5	3734693	1.97E-03	8.98E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
3122	420779.7	3734696	1.80E-03	8.25E-03	1.80E-05	2.47E-04	1.13E-03	2.68E-06	1.52E-04	5.18E-04	6.23E-07
3123	420770.8	3734700	1.62E-03	7.43E-03	1.62E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.67E-04	5.61E-07

3124	420762	3734704	1.44E-03	6.59E-03	1.44E-05	1.98E-04	9.01E-04	2.14E-06	1.21E-04	4.14E-04	4.98E-07
3125	420753.1	3734708	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.36E-07
3126	420744.3	3734711	1.09E-03	5.00E-03	1.09E-05	1.50E-04	6.84E-04	1.63E-06	9.20E-05	3.14E-04	3.78E-07
3127	420913	3734530	1.37E-03	6.24E-03	1.36E-05	1.87E-04	8.54E-04	2.03E-06	1.15E-04	3.92E-04	4.72E-07
3128	420913.3	3734520	1.27E-03	5.82E-03	1.27E-05	1.74E-04	7.95E-04	1.89E-06	1.07E-04	3.66E-04	4.40E-07
3129	420913.5	3734510	1.18E-03	5.39E-03	1.18E-05	1.62E-04	7.37E-04	1.76E-06	9.92E-05	3.39E-04	4.07E-07
3130	420920.8	3734568	1.49E-03	6.82E-03	1.49E-05	2.05E-04	9.33E-04	2.22E-06	1.26E-04	4.29E-04	5.16E-07
3131	420916.9	3734577	1.60E-03	7.33E-03	1.60E-05	2.20E-04	1.00E-03	2.39E-06	1.35E-04	4.61E-04	5.54E-07
3132	420912.9	3734586	1.71E-03	7.83E-03	1.71E-05	2.35E-04	1.07E-03	2.55E-06	1.44E-04	4.92E-04	5.92E-07
3133	420909	3734595	1.82E-03	8.30E-03	1.81E-05	2.49E-04	1.13E-03	2.70E-06	1.53E-04	5.22E-04	6.27E-07
3134	420905	3734604	1.91E-03	8.71E-03	1.90E-05	2.61E-04	1.19E-03	2.84E-06	1.60E-04	5.48E-04	6.59E-07
3135	420901.1	3734613	1.97E-03	9.01E-03	1.97E-05	2.70E-04	1.23E-03	2.93E-06	1.66E-04	5.66E-04	6.81E-07
3136	420897.1	3734622	2.02E-03	9.24E-03	2.02E-05	2.77E-04	1.26E-03	3.01E-06	1.70E-04	5.81E-04	6.98E-07
3137	420893.1	3734632	2.05E-03	9.38E-03	2.05E-05	2.81E-04	1.28E-03	3.06E-06	1.73E-04	5.90E-04	7.09E-07
3138	420889.2	3734641	2.07E-03	9.45E-03	2.07E-05	2.83E-04	1.29E-03	3.08E-06	1.74E-04	5.94E-04	7.14E-07
3139	420885.2	3734650	2.06E-03	9.42E-03	2.06E-05	2.82E-04	1.29E-03	3.07E-06	1.73E-04	5.92E-04	7.12E-07
3140	420881.3	3734659	2.04E-03	9.31E-03	2.04E-05	2.79E-04	1.27E-03	3.03E-06	1.71E-04	5.85E-04	7.04E-07
3141	420877.3	3734668	2.00E-03	9.13E-03	2.00E-05	2.74E-04	1.25E-03	2.97E-06	1.68E-04	5.74E-04	6.90E-07
3142	420864.2	3734681	1.99E-03	9.08E-03	1.98E-05	2.72E-04	1.24E-03	2.96E-06	1.67E-04	5.71E-04	6.86E-07
3143	420855	3734685	2.01E-03	9.21E-03	2.01E-05	2.76E-04	1.26E-03	3.00E-06	1.69E-04	5.79E-04	6.96E-07
3144	420845.8	3734689	2.02E-03	9.24E-03	2.02E-05	2.77E-04	1.26E-03	3.01E-06	1.70E-04	5.81E-04	6.98E-07
3145	420836.6	3734693	2.00E-03	9.17E-03	2.00E-05	2.75E-04	1.25E-03	2.98E-06	1.69E-04	5.76E-04	6.93E-07
3146	420827.5	3734696	1.97E-03	8.99E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
3147	420818.3	3734700	1.90E-03	8.69E-03	1.90E-05	2.60E-04	1.19E-03	2.83E-06	1.60E-04	5.46E-04	6.57E-07
3148	420809.1	3734704	1.81E-03	8.28E-03	1.81E-05	2.48E-04	1.13E-03	2.70E-06	1.52E-04	5.20E-04	6.26E-07
3149	420799.9	3734708	1.70E-03	7.79E-03	1.70E-05	2.33E-04	1.06E-03	2.54E-06	1.43E-04	4.89E-04	5.89E-07
3150	420790.8	3734712	1.58E-03	7.21E-03	1.58E-05	2.16E-04	9.85E-04	2.35E-06	1.33E-04	4.53E-04	5.45E-07
3151	420781.6	3734716	1.44E-03	6.56E-03	1.43E-05	1.97E-04	8.98E-04	2.14E-06	1.21E-04	4.13E-04	4.96E-07
3152	420772.4	3734720	1.29E-03	5.89E-03	1.29E-05	1.77E-04	8.06E-04	1.92E-06	1.08E-04	3.70E-04	4.45E-07
3153	420763.2	3734723	1.14E-03	5.23E-03	1.14E-05	1.57E-04	7.15E-04	1.70E-06	9.62E-05	3.29E-04	3.95E-07
3154	420754.1	3734727	9.98E-04	4.56E-03	9.98E-06	1.37E-04	6.24E-04	1.49E-06	8.40E-05	2.87E-04	3.45E-07
3155	420744.9	3734731	8.60E-04	3.93E-03	8.60E-06	1.18E-04	5.38E-04	1.28E-06	7.24E-05	2.47E-04	2.97E-07
3156	420933	3734530	1.09E-03	4.97E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.15E-05	3.13E-04	3.76E-07
3157	420933.3	3734520	1.01E-03	4.64E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.54E-05	2.92E-04	3.51E-07
3158	420933.5	3734510	9.39E-04	4.29E-03	9.39E-06	1.29E-04	5.87E-04	1.40E-06	7.90E-05	2.70E-04	3.25E-07
3159	420941.2	3734567	1.19E-03	5.43E-03	1.19E-05	1.63E-04	7.43E-04	1.77E-06	1.00E-04	3.41E-04	4.11E-07
3160	420937.3	3734576	1.27E-03	5.82E-03	1.27E-05	1.74E-04	7.96E-04	1.89E-06	1.07E-04	3.66E-04	4.40E-07
3161	420933.5	3734585	1.36E-03	6.21E-03	1.36E-05	1.86E-04	8.49E-04	2.02E-06	1.14E-04	3.90E-04	4.69E-07
3162	420929.7	3734594	1.44E-03	6.59E-03	1.44E-05	1.98E-04	9.02E-04	2.15E-06	1.21E-04	4.14E-04	4.98E-07
3163	420925.8	3734603	1.52E-03	6.96E-03	1.52E-05	2.09E-04	9.51E-04	2.27E-06	1.28E-04	4.37E-04	5.26E-07
3164	420922	3734612	1.59E-03	7.28E-03	1.59E-05	2.18E-04	9.96E-04	2.37E-06	1.34E-04	4.58E-04	5.50E-07
3165	420918.1	3734621	1.65E-03	7.56E-03	1.65E-05	2.27E-04	1.03E-03	2.46E-06	1.39E-04	4.75E-04	5.71E-07
3166	420914.3	3734629	1.70E-03	7.78E-03	1.70E-05	2.33E-04	1.06E-03	2.53E-06	1.43E-04	4.89E-04	5.88E-07
3167	420910.5	3734638	1.73E-03	7.92E-03	1.73E-05	2.38E-04	1.08E-03	2.58E-06	1.46E-04	4.98E-04	5.99E-07
3168	420906.6	3734647	1.75E-03	8.00E-03	1.75E-05	2.40E-04	1.09E-03	2.61E-06	1.47E-04	5.03E-04	6.05E-07
3169	420902.8	3734656	1.76E-03	8.03E-03	1.76E-05	2.41E-04	1.10E-03	2.61E-06	1.48E-04	5.05E-04	6.07E-07
3170	420898.9	3734665	1.75E-03	8.00E-03	1.75E-05	2.40E-04	1.09E-03	2.60E-06	1.47E-04	5.03E-04	6.04E-07
3171	420895.1	3734674	1.73E-03	7.91E-03	1.73E-05	2.37E-04	1.08E-03	2.57E-06	1.46E-04	4.97E-04	5.98E-07
3172	420891.2	3734683	1.70E-03	7.77E-03	1.70E-05	2.33E-04	1.06E-03	2.53E-06	1.43E-04	4.88E-04	5.87E-07
3173	420878.5	3734695	1.69E-03	7.75E-03	1.69E-05	2.32E-04	1.06E-03	2.52E-06	1.43E-04	4.87E-04	5.86E-07
3174	420869.6	3734699	1.72E-03	7.87E-03	1.72E-05	2.36E-04	1.08E-03	2.56E-06	1.45E-04	4.95E-04	5.95E-07
3175	420860.7	3734703	1.73E-03	7.92E-03	1.73E-05	2.38E-04	1.08E-03	2.58E-06	1.46E-04	4.98E-04	5.99E-07
3176	420851.8	3734706	1.73E-03	7.90E-03	1.73E-05	2.37E-04	1.08E-03	2.57E-06	1.45E-04	4.97E-04	5.97E-07
3177	420842.9	3734710	1.71E-03	7.80E-03	1.71E-05	2.34E-04	1.07E-03	2.54E-06	1.44E-04	4.90E-04	5.90E-07
3178	420834	3734714	1.67E-03	7.63E-03	1.67E-05	2.29E-04	1.04E-03	2.48E-06	1.40E-04	4.79E-04	5.76E-07
3179	420825.1	3734718	1.61E-03	7.37E-03	1.61E-05	2.21E-04	1.01E-03	2.40E-06	1.36E-04	4.63E-04	5.57E-07
3180	420816.2	3734721	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.62E-04	2.29E-06	1.29E-04	4.42E-04	5.32E-07
3181	420807.2	3734725	1.45E-03	6.63E-03	1.45E-05	1.99E-04	9.06E-04	2.16E-06	1.22E-04	4.17E-04	5.01E-07
3182	420798.3	3734729	1.35E-03	6.17E-03	1.35E-05	1.85E-04	8.43E-04	2.01E-06	1.14E-04	3.88E-04	4.66E-07

3183	420789.4	3734733	1.24E-03	5.67E-03	1.24E-05	1.70E-04	7.75E-04	1.84E-06	1.04E-04	3.56E-04	4.28E-07
3184	420771.6	3734740	1.01E-03	4.63E-03	1.01E-05	1.39E-04	6.33E-04	1.51E-06	8.51E-05	2.91E-04	3.50E-07
3185	420762.7	3734744	8.96E-04	4.10E-03	8.96E-06	1.23E-04	5.60E-04	1.33E-06	7.54E-05	2.58E-04	3.10E-07
3186	420753.8	3734747	7.86E-04	3.59E-03	7.85E-06	1.08E-04	4.91E-04	1.17E-06	6.61E-05	2.26E-04	2.72E-07
3187	420744.9	3734751	6.83E-04	3.12E-03	6.82E-06	9.36E-05	4.27E-04	1.02E-06	5.74E-05	1.96E-04	2.36E-07
3188	420953	3734531	8.79E-04	4.02E-03	8.78E-06	1.20E-04	5.49E-04	1.31E-06	7.39E-05	2.53E-04	3.04E-07
3189	420953.2	3734521	8.23E-04	3.76E-03	8.23E-06	1.13E-04	5.15E-04	1.23E-06	6.93E-05	2.37E-04	2.85E-07
3190	420953.5	3734511	7.64E-04	3.49E-03	7.64E-06	1.05E-04	4.78E-04	1.14E-06	6.43E-05	2.20E-04	2.64E-07
3191	420960.8	3734569	9.73E-04	4.45E-03	9.73E-06	1.33E-04	6.09E-04	1.45E-06	8.19E-05	2.80E-04	3.36E-07
3192	420956.9	3734578	1.04E-03	4.77E-03	1.04E-05	1.43E-04	6.53E-04	1.55E-06	8.78E-05	3.00E-04	3.61E-07
3193	420952.9	3734587	1.12E-03	5.11E-03	1.12E-05	1.53E-04	6.99E-04	1.66E-06	9.41E-05	3.21E-04	3.86E-07
3194	420949	3734596	1.19E-03	5.44E-03	1.19E-05	1.63E-04	7.44E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
3195	420945	3734605	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.87E-04	1.87E-06	1.06E-04	3.62E-04	4.35E-07
3196	420941	3734614	1.32E-03	6.04E-03	1.32E-05	1.81E-04	8.26E-04	1.97E-06	1.11E-04	3.80E-04	4.57E-07
3197	420937.1	3734624	1.38E-03	6.30E-03	1.38E-05	1.89E-04	8.62E-04	2.05E-06	1.16E-04	3.96E-04	4.76E-07
3198	420933.1	3734633	1.43E-03	6.52E-03	1.43E-05	1.95E-04	8.91E-04	2.12E-06	1.20E-04	4.10E-04	4.93E-07
3199	420929.2	3734642	1.46E-03	6.69E-03	1.46E-05	2.01E-04	9.15E-04	2.18E-06	1.23E-04	4.21E-04	5.06E-07
3200	420925.2	3734651	1.49E-03	6.82E-03	1.49E-05	2.05E-04	9.33E-04	2.22E-06	1.26E-04	4.29E-04	5.16E-07
3201	420921.3	3734660	1.51E-03	6.89E-03	1.51E-05	2.06E-04	9.42E-04	2.24E-06	1.27E-04	4.33E-04	5.20E-07
3202	420917.3	3734669	1.51E-03	6.90E-03	1.51E-05	2.07E-04	9.44E-04	2.25E-06	1.27E-04	4.34E-04	5.22E-07
3203	420913.3	3734678	1.50E-03	6.88E-03	1.50E-05	2.06E-04	9.40E-04	2.24E-06	1.27E-04	4.32E-04	5.20E-07
3204	420909.4	3734687	1.49E-03	6.80E-03	1.49E-05	2.04E-04	9.30E-04	2.21E-06	1.25E-04	4.28E-04	5.14E-07
3205	420905.4	3734697	1.46E-03	6.68E-03	1.46E-05	2.00E-04	9.13E-04	2.17E-06	1.23E-04	4.20E-04	5.05E-07
3206	420892.3	3734710	1.46E-03	6.67E-03	1.46E-05	2.00E-04	9.12E-04	2.17E-06	1.23E-04	4.19E-04	5.04E-07
3207	420883.1	3734713	1.48E-03	6.78E-03	1.48E-05	2.03E-04	9.28E-04	2.21E-06	1.25E-04	4.26E-04	5.13E-07
3208	420873.9	3734717	1.50E-03	6.85E-03	1.50E-05	2.05E-04	9.37E-04	2.23E-06	1.26E-04	4.31E-04	5.18E-07
3209	420864.8	3734721	1.50E-03	6.86E-03	1.50E-05	2.06E-04	9.37E-04	2.23E-06	1.26E-04	4.31E-04	5.18E-07
3210	420855.6	3734725	1.49E-03	6.79E-03	1.48E-05	2.04E-04	9.29E-04	2.21E-06	1.25E-04	4.27E-04	5.13E-07
3211	420846.4	3734729	1.46E-03	6.66E-03	1.46E-05	2.00E-04	9.11E-04	2.17E-06	1.23E-04	4.19E-04	5.03E-07
3212	420837.2	3734733	1.41E-03	6.47E-03	1.41E-05	1.94E-04	8.84E-04	2.11E-06	1.19E-04	4.06E-04	4.89E-07
3213	420791.3	3734752	1.02E-03	4.67E-03	1.02E-05	1.40E-04	6.38E-04	1.52E-06	8.59E-05	2.93E-04	3.53E-07
3214	420782.2	3734756	9.23E-04	4.22E-03	9.22E-06	1.26E-04	5.77E-04	1.37E-06	7.76E-05	2.65E-04	3.19E-07
3215	420773	3734760	8.25E-04	3.77E-03	8.24E-06	1.13E-04	5.15E-04	1.23E-06	6.94E-05	2.37E-04	2.85E-07
3216	420763.8	3734763	7.29E-04	3.33E-03	7.29E-06	1.00E-04	4.56E-04	1.09E-06	6.14E-05	2.10E-04	2.52E-07
3217	420754.6	3734767	6.39E-04	2.92E-03	6.39E-06	8.76E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
3218	420745.5	3734771	5.56E-04	2.54E-03	5.55E-06	7.62E-05	3.47E-04	8.27E-07	4.68E-05	1.60E-04	1.92E-07
3219	420973	3734531	7.24E-04	3.31E-03	7.24E-06	9.92E-05	4.53E-04	1.08E-06	6.09E-05	2.08E-04	2.50E-07
3220	420973.2	3734521	6.78E-04	3.10E-03	6.78E-06	9.30E-05	4.24E-04	1.01E-06	5.71E-05	1.95E-04	2.34E-07
3221	420973.5	3734511	6.31E-04	2.89E-03	6.31E-06	8.65E-05	3.95E-04	9.39E-07	5.31E-05	1.81E-04	2.18E-07
3222	420981.1	3734569	8.05E-04	3.68E-03	8.05E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
3223	420977.3	3734577	8.60E-04	3.93E-03	8.59E-06	1.18E-04	5.38E-04	1.28E-06	7.23E-05	2.47E-04	2.97E-07
3224	420973.4	3734586	9.19E-04	4.20E-03	9.18E-06	1.26E-04	5.74E-04	1.37E-06	7.73E-05	2.64E-04	3.17E-07
3225	420969.5	3734595	9.78E-04	4.47E-03	9.77E-06	1.34E-04	6.11E-04	1.46E-06	8.22E-05	2.81E-04	3.38E-07
3226	420965.7	3734604	1.03E-03	4.73E-03	1.03E-05	1.42E-04	6.47E-04	1.54E-06	8.70E-05	2.97E-04	3.57E-07
3227	420961.8	3734613	1.09E-03	4.98E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.16E-05	3.13E-04	3.76E-07
3228	420958	3734622	1.14E-03	5.22E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.60E-05	3.28E-04	3.94E-07
3229	420954.1	3734631	1.19E-03	5.43E-03	1.19E-05	1.63E-04	7.43E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
3230	420950.3	3734640	1.23E-03	5.62E-03	1.23E-05	1.69E-04	7.69E-04	1.83E-06	1.03E-04	3.53E-04	4.25E-07
3231	420946.4	3734649	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.89E-04	1.88E-06	1.06E-04	3.63E-04	4.36E-07
3232	420942.5	3734658	1.29E-03	5.88E-03	1.29E-05	1.76E-04	8.04E-04	1.92E-06	1.08E-04	3.70E-04	4.45E-07
3233	420938.7	3734667	1.30E-03	5.95E-03	1.30E-05	1.78E-04	8.14E-04	1.94E-06	1.10E-04	3.74E-04	4.50E-07
3234	420934.8	3734675	1.31E-03	5.99E-03	1.31E-05	1.79E-04	8.19E-04	1.95E-06	1.10E-04	3.76E-04	4.52E-07
3235	420931	3734684	1.31E-03	5.99E-03	1.31E-05	1.80E-04	8.19E-04	1.95E-06	1.10E-04	3.76E-04	4.53E-07
3236	420927.1	3734693	1.30E-03	5.96E-03	1.30E-05	1.79E-04	8.15E-04	1.94E-06	1.10E-04	3.75E-04	4.50E-07
3237	420923.2	3734702	1.29E-03	5.90E-03	1.29E-05	1.77E-04	8.07E-04	1.92E-06	1.09E-04	3.71E-04	4.46E-07
3238	420919.4	3734711	1.27E-03	5.79E-03	1.27E-05	1.74E-04	7.92E-04	1.88E-06	1.07E-04	3.64E-04	4.38E-07
3239	420906.6	3734724	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.90E-04	1.88E-06	1.06E-04	3.63E-04	4.36E-07
3240	420897.6	3734727	1.28E-03	5.87E-03	1.28E-05	1.76E-04	8.03E-04	1.91E-06	1.08E-04	3.69E-04	4.44E-07
3241	420888.7	3734731	1.30E-03	5.94E-03	1.30E-05	1.78E-04	8.13E-04	1.94E-06	1.09E-04	3.74E-04	4.49E-07

3242	420835	3734754	1.17E-03	5.37E-03	1.17E-05	1.61E-04	7.34E-04	1.75E-06	9.88E-05	3.37E-04	4.06E-07
3243	420826	3734757	1.12E-03	5.10E-03	1.11E-05	1.53E-04	6.97E-04	1.66E-06	9.38E-05	3.20E-04	3.85E-07
3244	420817.1	3734761	1.05E-03	4.80E-03	1.05E-05	1.44E-04	6.56E-04	1.56E-06	8.82E-05	3.01E-04	3.62E-07
3245	420808.1	3734765	9.76E-04	4.46E-03	9.76E-06	1.34E-04	6.10E-04	1.45E-06	8.21E-05	2.81E-04	3.37E-07
3246	420799.2	3734769	8.98E-04	4.11E-03	8.98E-06	1.23E-04	5.61E-04	1.34E-06	7.56E-05	2.58E-04	3.10E-07
3247	420790.3	3734772	8.20E-04	3.75E-03	8.20E-06	1.12E-04	5.13E-04	1.22E-06	6.90E-05	2.36E-04	2.84E-07
3248	420781.3	3734776	7.41E-04	3.39E-03	7.41E-06	1.02E-04	4.63E-04	1.10E-06	6.24E-05	2.13E-04	2.56E-07
3249	420772.4	3734780	6.64E-04	3.03E-03	6.63E-06	9.10E-05	4.15E-04	9.88E-07	5.58E-05	1.91E-04	2.29E-07
3250	420763.4	3734784	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
3251	420754.5	3734787	5.20E-04	2.38E-03	5.20E-06	7.13E-05	3.25E-04	7.74E-07	4.37E-05	1.49E-04	1.80E-07
3252	420745.5	3734791	4.55E-04	2.08E-03	4.55E-06	6.24E-05	2.85E-04	6.78E-07	3.83E-05	1.31E-04	1.57E-07
3253	420993	3734532	6.05E-04	2.77E-03	6.05E-06	8.30E-05	3.78E-04	9.01E-07	5.09E-05	1.74E-04	2.09E-07
3254	420993.2	3734522	5.67E-04	2.59E-03	5.66E-06	7.77E-05	3.54E-04	8.44E-07	4.77E-05	1.63E-04	1.96E-07
3255	420993.5	3734512	5.28E-04	2.41E-03	5.27E-06	7.23E-05	3.30E-04	7.85E-07	4.44E-05	1.52E-04	1.82E-07
3256	420992.9	3734588	7.77E-04	3.55E-03	7.77E-06	1.07E-04	4.86E-04	1.16E-06	6.54E-05	2.23E-04	2.69E-07
3257	420988.9	3734597	8.28E-04	3.79E-03	8.28E-06	1.14E-04	5.18E-04	1.23E-06	6.97E-05	2.38E-04	2.86E-07
3258	420985	3734606	8.78E-04	4.01E-03	8.77E-06	1.20E-04	5.49E-04	1.31E-06	7.38E-05	2.52E-04	3.03E-07
3259	420981	3734615	9.25E-04	4.23E-03	9.25E-06	1.27E-04	5.79E-04	1.38E-06	7.79E-05	2.66E-04	3.20E-07
3260	420977.1	3734625	9.71E-04	4.44E-03	9.70E-06	1.33E-04	6.07E-04	1.45E-06	8.17E-05	2.79E-04	3.36E-07
3261	420973.1	3734634	1.01E-03	4.63E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.53E-05	2.91E-04	3.50E-07
3262	420969.2	3734643	1.05E-03	4.81E-03	1.05E-05	1.44E-04	6.58E-04	1.57E-06	8.86E-05	3.02E-04	3.64E-07
3263	420965.2	3734652	1.09E-03	4.96E-03	1.09E-05	1.49E-04	6.79E-04	1.62E-06	9.14E-05	3.12E-04	3.75E-07
3264	420961.2	3734661	1.11E-03	5.08E-03	1.11E-05	1.52E-04	6.95E-04	1.65E-06	9.35E-05	3.19E-04	3.84E-07
3265	420957.3	3734670	1.13E-03	5.16E-03	1.13E-05	1.55E-04	7.06E-04	1.68E-06	9.49E-05	3.24E-04	3.90E-07
3266	420953.3	3734679	1.14E-03	5.21E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.59E-05	3.28E-04	3.94E-07
3267	420949.4	3734688	1.15E-03	5.24E-03	1.15E-05	1.57E-04	7.17E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3268	420945.4	3734698	1.15E-03	5.24E-03	1.15E-05	1.57E-04	7.17E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3269	420941.4	3734707	1.14E-03	5.22E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.60E-05	3.28E-04	3.94E-07
3270	420937.5	3734716	1.12E-03	5.14E-03	1.12E-05	1.54E-04	7.03E-04	1.67E-06	9.46E-05	3.23E-04	3.89E-07
3271	420933.5	3734725	1.10E-03	5.05E-03	1.10E-05	1.51E-04	6.90E-04	1.64E-06	9.28E-05	3.17E-04	3.81E-07
3272	420883.7	3734753	1.15E-03	5.24E-03	1.14E-05	1.57E-04	7.16E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3273	420874.5	3734757	1.14E-03	5.19E-03	1.13E-05	1.56E-04	7.10E-04	1.69E-06	9.55E-05	3.26E-04	3.92E-07
3274	420865.3	3734761	1.12E-03	5.10E-03	1.12E-05	1.53E-04	6.98E-04	1.66E-06	9.39E-05	3.21E-04	3.86E-07
3275	420856.2	3734765	1.09E-03	4.97E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.15E-05	3.12E-04	3.76E-07
3276	420847	3734769	1.05E-03	4.78E-03	1.05E-05	1.43E-04	6.54E-04	1.56E-06	8.80E-05	3.01E-04	3.62E-07
3277	420837.8	3734773	9.97E-04	4.56E-03	9.97E-06	1.37E-04	6.24E-04	1.48E-06	8.39E-05	2.87E-04	3.45E-07
3278	420828.6	3734776	9.43E-04	4.31E-03	9.42E-06	1.29E-04	5.89E-04	1.40E-06	7.93E-05	2.71E-04	3.26E-07
3279	420819.5	3734780	8.82E-04	4.03E-03	8.82E-06	1.21E-04	5.52E-04	1.31E-06	7.42E-05	2.53E-04	3.05E-07
3280	420810.3	3734784	8.17E-04	3.74E-03	8.17E-06	1.12E-04	5.11E-04	1.22E-06	6.88E-05	2.35E-04	2.82E-07
3281	420801.1	3734788	7.52E-04	3.44E-03	7.52E-06	1.03E-04	4.70E-04	1.12E-06	6.33E-05	2.16E-04	2.60E-07
3282	420791.9	3734792	6.86E-04	3.14E-03	6.86E-06	9.41E-05	4.29E-04	1.02E-06	5.77E-05	1.97E-04	2.37E-07
3283	420782.7	3734796	6.19E-04	2.83E-03	6.19E-06	8.48E-05	3.87E-04	9.21E-07	5.21E-05	1.78E-04	2.14E-07
3284	420773.6	3734800	5.54E-04	2.53E-03	5.53E-06	7.59E-05	3.46E-04	8.24E-07	4.66E-05	1.59E-04	1.91E-07
3285	420764.4	3734803	4.92E-04	2.25E-03	4.91E-06	6.74E-05	3.07E-04	7.32E-07	4.14E-05	1.41E-04	1.70E-07
3286	420755.2	3734807	4.34E-04	1.98E-03	4.33E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
3287	420746	3734811	3.81E-04	1.74E-03	3.80E-06	5.22E-05	2.38E-04	5.66E-07	3.20E-05	1.09E-04	1.31E-07
3288	421013	3734532	5.10E-04	2.33E-03	5.10E-06	7.00E-05	3.19E-04	7.60E-07	4.29E-05	1.47E-04	1.76E-07
3289	421013.2	3734522	4.79E-04	2.19E-03	4.78E-06	6.56E-05	2.99E-04	7.12E-07	4.03E-05	1.38E-04	1.65E-07
3290	421013.5	3734512	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3291	421024.9	3734561	5.38E-04	2.46E-03	5.37E-06	7.37E-05	3.36E-04	8.00E-07	4.52E-05	1.54E-04	1.86E-07
3292	421021.1	3734570	5.77E-04	2.64E-03	5.76E-06	7.91E-05	3.61E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
3293	421017.2	3734579	6.16E-04	2.82E-03	6.15E-06	8.44E-05	3.85E-04	9.17E-07	5.18E-05	1.77E-04	2.13E-07
3294	420994	3734632	8.53E-04	3.90E-03	8.53E-06	1.17E-04	5.33E-04	1.27E-06	7.18E-05	2.45E-04	2.95E-07
3295	420990.1	3734641	8.87E-04	4.06E-03	8.87E-06	1.22E-04	5.55E-04	1.32E-06	7.46E-05	2.55E-04	3.07E-07
3296	420986.2	3734650	9.21E-04	4.21E-03	9.20E-06	1.26E-04	5.76E-04	1.37E-06	7.75E-05	2.65E-04	3.18E-07
3297	420982.4	3734659	9.50E-04	4.35E-03	9.50E-06	1.30E-04	5.94E-04	1.41E-06	8.00E-05	2.73E-04	3.28E-07
3298	420978.5	3734668	9.72E-04	4.44E-03	9.72E-06	1.33E-04	6.08E-04	1.45E-06	8.18E-05	2.79E-04	3.36E-07
3299	420974.6	3734677	9.88E-04	4.52E-03	9.88E-06	1.35E-04	6.18E-04	1.47E-06	8.32E-05	2.84E-04	3.42E-07
3300	420970.7	3734686	1.00E-03	4.57E-03	1.00E-05	1.37E-04	6.25E-04	1.49E-06	8.42E-05	2.87E-04	3.46E-07

3301	420966.9	3734695	1.01E-03	4.61E-03	1.01E-05	1.38E-04	6.30E-04	1.50E-06	8.48E-05	2.90E-04	3.48E-07
3302	420963	3734704	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.51E-06	8.51E-05	2.91E-04	3.49E-07
3303	420959.1	3734713	1.01E-03	4.61E-03	1.01E-05	1.38E-04	6.30E-04	1.50E-06	8.48E-05	2.89E-04	3.48E-07
3304	420955.2	3734722	9.97E-04	4.56E-03	9.97E-06	1.37E-04	6.24E-04	1.48E-06	8.39E-05	2.87E-04	3.45E-07
3305	420951.4	3734731	9.84E-04	4.50E-03	9.83E-06	1.35E-04	6.15E-04	1.46E-06	8.27E-05	2.83E-04	3.40E-07
3306	420934.7	3734752	9.70E-04	4.43E-03	9.69E-06	1.33E-04	6.06E-04	1.44E-06	8.16E-05	2.79E-04	3.35E-07
3307	420925.7	3734756	9.88E-04	4.52E-03	9.88E-06	1.35E-04	6.18E-04	1.47E-06	8.31E-05	2.84E-04	3.41E-07
3308	420916.7	3734760	1.00E-03	4.58E-03	1.00E-05	1.37E-04	6.26E-04	1.49E-06	8.43E-05	2.88E-04	3.46E-07
3309	420907.7	3734763	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.50E-06	8.50E-05	2.90E-04	3.49E-07
3310	420898.7	3734767	1.02E-03	4.66E-03	1.02E-05	1.40E-04	6.37E-04	1.52E-06	8.58E-05	2.93E-04	3.52E-07
3311	420889.8	3734771	1.01E-03	4.64E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.54E-05	2.92E-04	3.51E-07
3312	420880.8	3734775	1.00E-03	4.58E-03	1.00E-05	1.37E-04	6.26E-04	1.49E-06	8.43E-05	2.88E-04	3.46E-07
3313	420871.8	3734778	9.81E-04	4.49E-03	9.81E-06	1.35E-04	6.14E-04	1.46E-06	8.26E-05	2.82E-04	3.39E-07
3314	420862.8	3734782	9.54E-04	4.36E-03	9.53E-06	1.31E-04	5.96E-04	1.42E-06	8.03E-05	2.74E-04	3.30E-07
3315	420853.9	3734786	9.20E-04	4.20E-03	9.19E-06	1.26E-04	5.75E-04	1.37E-06	7.74E-05	2.64E-04	3.18E-07
3316	420844.9	3734790	8.78E-04	4.01E-03	8.77E-06	1.20E-04	5.49E-04	1.31E-06	7.38E-05	2.52E-04	3.03E-07
3317	420835.9	3734794	8.31E-04	3.80E-03	8.31E-06	1.14E-04	5.20E-04	1.24E-06	6.99E-05	2.39E-04	2.87E-07
3318	420826.9	3734797	7.81E-04	3.57E-03	7.80E-06	1.07E-04	4.88E-04	1.16E-06	6.57E-05	2.24E-04	2.70E-07
3319	420817.9	3734801	7.27E-04	3.33E-03	7.27E-06	9.97E-05	4.55E-04	1.08E-06	6.12E-05	2.09E-04	2.51E-07
3320	420809	3734805	6.72E-04	3.07E-03	6.72E-06	9.21E-05	4.20E-04	1.00E-06	5.65E-05	1.93E-04	2.32E-07
3321	420800	3734809	6.17E-04	2.82E-03	6.16E-06	8.45E-05	3.86E-04	9.18E-07	5.19E-05	1.77E-04	2.13E-07
3322	420791	3734812	5.61E-04	2.56E-03	5.61E-06	7.69E-05	3.51E-04	8.35E-07	4.72E-05	1.61E-04	1.94E-07
3323	420782	3734816	5.06E-04	2.31E-03	5.06E-06	6.94E-05	3.16E-04	7.53E-07	4.26E-05	1.45E-04	1.75E-07
3324	420773.1	3734820	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
3325	420764.1	3734824	4.07E-04	1.86E-03	4.07E-06	5.58E-05	2.55E-04	6.06E-07	3.43E-05	1.17E-04	1.41E-07
3326	420755.1	3734827	3.62E-04	1.65E-03	3.61E-06	4.96E-05	2.26E-04	5.38E-07	3.04E-05	1.04E-04	1.25E-07
3327	420746.1	3734831	3.18E-04	1.45E-03	3.17E-06	4.35E-05	1.99E-04	4.73E-07	2.67E-05	9.12E-05	1.10E-07
3328	421033	3734533	4.33E-04	1.98E-03	4.33E-06	5.94E-05	2.71E-04	6.45E-07	3.65E-05	1.25E-04	1.50E-07
3329	421033.2	3734523	4.06E-04	1.86E-03	4.06E-06	5.56E-05	2.54E-04	6.04E-07	3.42E-05	1.17E-04	1.40E-07
3330	421033.5	3734513	3.79E-04	1.73E-03	3.78E-06	5.19E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
3331	421064.9	3734562	4.00E-04	1.83E-03	4.00E-06	5.49E-05	2.50E-04	5.96E-07	3.37E-05	1.15E-04	1.38E-07
3332	421061	3734571	4.29E-04	1.96E-03	4.29E-06	5.89E-05	2.68E-04	6.39E-07	3.61E-05	1.23E-04	1.48E-07
3333	421057.1	3734580	4.59E-04	2.10E-03	4.58E-06	6.29E-05	2.87E-04	6.83E-07	3.86E-05	1.32E-04	1.59E-07
3334	421053.3	3734589	4.88E-04	2.23E-03	4.88E-06	6.70E-05	3.05E-04	7.27E-07	4.11E-05	1.40E-04	1.69E-07
3335	421049.4	3734598	5.18E-04	2.37E-03	5.18E-06	7.10E-05	3.24E-04	7.71E-07	4.36E-05	1.49E-04	1.79E-07
3336	421045.5	3734607	5.48E-04	2.50E-03	5.47E-06	7.51E-05	3.42E-04	8.15E-07	4.61E-05	1.57E-04	1.89E-07
3337	421041.6	3734616	5.77E-04	2.64E-03	5.76E-06	7.90E-05	3.60E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
3338	421037.7	3734625	6.05E-04	2.77E-03	6.05E-06	8.30E-05	3.78E-04	9.01E-07	5.09E-05	1.74E-04	2.09E-07
3339	421033.9	3734634	6.33E-04	2.89E-03	6.33E-06	8.68E-05	3.96E-04	9.42E-07	5.33E-05	1.82E-04	2.19E-07
3340	421030	3734643	6.59E-04	3.02E-03	6.59E-06	9.04E-05	4.12E-04	9.82E-07	5.55E-05	1.90E-04	2.28E-07
3341	421026.1	3734651	6.84E-04	3.13E-03	6.83E-06	9.37E-05	4.27E-04	1.02E-06	5.75E-05	1.96E-04	2.36E-07
3342	421022.2	3734660	7.06E-04	3.23E-03	7.05E-06	9.67E-05	4.41E-04	1.05E-06	5.94E-05	2.03E-04	2.44E-07
3343	421018.3	3734669	7.26E-04	3.32E-03	7.26E-06	9.95E-05	4.54E-04	1.08E-06	6.11E-05	2.09E-04	2.51E-07
3344	421014.4	3734678	7.47E-04	3.41E-03	7.46E-06	1.02E-04	4.67E-04	1.11E-06	6.28E-05	2.15E-04	2.58E-07
3345	420995	3734723	7.93E-04	3.63E-03	7.93E-06	1.09E-04	4.96E-04	1.18E-06	6.67E-05	2.28E-04	2.74E-07
3346	420983.4	3734750	7.78E-04	3.56E-03	7.78E-06	1.07E-04	4.86E-04	1.16E-06	6.55E-05	2.24E-04	2.69E-07
3347	420979.5	3734759	7.68E-04	3.51E-03	7.68E-06	1.05E-04	4.80E-04	1.14E-06	6.46E-05	2.21E-04	2.65E-07
3348	420975.6	3734768	7.56E-04	3.46E-03	7.56E-06	1.04E-04	4.73E-04	1.13E-06	6.36E-05	2.17E-04	2.61E-07
3349	420962.7	3734781	7.64E-04	3.49E-03	7.63E-06	1.05E-04	4.78E-04	1.14E-06	6.43E-05	2.19E-04	2.64E-07
3350	420953.7	3734784	7.80E-04	3.57E-03	7.80E-06	1.07E-04	4.88E-04	1.16E-06	6.56E-05	2.24E-04	2.70E-07
3351	420944.7	3734788	7.94E-04	3.63E-03	7.94E-06	1.09E-04	4.97E-04	1.18E-06	6.68E-05	2.28E-04	2.74E-07
3352	420935.7	3734792	8.05E-04	3.68E-03	8.04E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
3353	420926.7	3734796	8.10E-04	3.70E-03	8.10E-06	1.11E-04	5.07E-04	1.21E-06	6.82E-05	2.33E-04	2.80E-07
3354	420917.7	3734799	8.11E-04	3.71E-03	8.10E-06	1.11E-04	5.07E-04	1.21E-06	6.82E-05	2.33E-04	2.80E-07
3355	420908.7	3734803	8.06E-04	3.69E-03	8.06E-06	1.11E-04	5.04E-04	1.20E-06	6.78E-05	2.32E-04	2.79E-07
3356	420899.7	3734807	7.97E-04	3.64E-03	7.97E-06	1.09E-04	4.98E-04	1.19E-06	6.71E-05	2.29E-04	2.75E-07
3357	420890.7	3734811	7.82E-04	3.58E-03	7.82E-06	1.07E-04	4.89E-04	1.16E-06	6.58E-05	2.25E-04	2.70E-07
3358	420881.7	3734815	7.62E-04	3.48E-03	7.62E-06	1.04E-04	4.76E-04	1.13E-06	6.41E-05	2.19E-04	2.63E-07
3359	420872.7	3734818	7.37E-04	3.37E-03	7.37E-06	1.01E-04	4.61E-04	1.10E-06	6.20E-05	2.12E-04	2.55E-07

3360	420863.7	3734822	7.08E-04	3.24E-03	7.08E-06	9.71E-05	4.43E-04	1.05E-06	5.96E-05	2.03E-04	2.45E-07
3361	420854.7	3734826	6.75E-04	3.09E-03	6.75E-06	9.26E-05	4.22E-04	1.01E-06	5.68E-05	1.94E-04	2.33E-07
3362	420845.7	3734830	6.40E-04	2.92E-03	6.39E-06	8.77E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
3363	420836.7	3734833	6.01E-04	2.75E-03	6.01E-06	8.24E-05	3.76E-04	8.95E-07	5.06E-05	1.73E-04	2.08E-07
3364	420827.7	3734837	5.61E-04	2.57E-03	5.61E-06	7.70E-05	3.51E-04	8.36E-07	4.72E-05	1.61E-04	1.94E-07
3365	420818.7	3734841	5.20E-04	2.38E-03	5.20E-06	7.13E-05	3.25E-04	7.75E-07	4.38E-05	1.50E-04	1.80E-07
3366	420809.7	3734845	4.79E-04	2.19E-03	4.79E-06	6.57E-05	3.00E-04	7.13E-07	4.03E-05	1.38E-04	1.66E-07
3367	420800.7	3734849	4.38E-04	2.00E-03	4.38E-06	6.01E-05	2.74E-04	6.52E-07	3.69E-05	1.26E-04	1.51E-07
3368	420791.7	3734852	3.98E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.14E-04	1.38E-07
3369	420782.7	3734856	3.60E-04	1.65E-03	3.60E-06	4.94E-05	2.25E-04	5.36E-07	3.03E-05	1.04E-04	1.25E-07
3370	420773.7	3734860	3.24E-04	1.48E-03	3.24E-06	4.44E-05	2.02E-04	4.82E-07	2.72E-05	9.31E-05	1.12E-07
3371	420764.7	3734864	2.89E-04	1.32E-03	2.89E-06	3.97E-05	1.81E-04	4.31E-07	2.43E-05	8.31E-05	1.00E-07
3372	420755.7	3734867	2.57E-04	1.18E-03	2.57E-06	3.52E-05	1.61E-04	3.83E-07	2.16E-05	7.39E-05	8.88E-08
3373	420746.7	3734871	2.27E-04	1.04E-03	2.27E-06	3.11E-05	1.42E-04	3.38E-07	1.91E-05	6.52E-05	7.84E-08
3374	421072.9	3734534	3.25E-04	1.49E-03	3.25E-06	4.46E-05	2.03E-04	4.84E-07	2.73E-05	9.34E-05	1.12E-07
3375	421073.2	3734524	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.76E-05	1.05E-07
3376	421073.5	3734514	2.85E-04	1.30E-03	2.85E-06	3.91E-05	1.78E-04	4.25E-07	2.40E-05	8.20E-05	9.86E-08
3377	421089.3	3734599	3.96E-04	1.81E-03	3.96E-06	5.43E-05	2.48E-04	5.90E-07	3.33E-05	1.14E-04	1.37E-07
3378	421085.4	3734608	4.19E-04	1.92E-03	4.19E-06	5.74E-05	2.62E-04	6.23E-07	3.52E-05	1.20E-04	1.45E-07
3379	421081.5	3734617	4.40E-04	2.01E-03	4.40E-06	6.03E-05	2.75E-04	6.55E-07	3.70E-05	1.26E-04	1.52E-07
3380	421077.7	3734626	4.61E-04	2.11E-03	4.60E-06	6.31E-05	2.88E-04	6.86E-07	3.87E-05	1.32E-04	1.59E-07
3381	421073.8	3734635	4.81E-04	2.20E-03	4.81E-06	6.59E-05	3.01E-04	7.16E-07	4.05E-05	1.38E-04	1.66E-07
3382	421069.9	3734644	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.13E-04	7.46E-07	4.22E-05	1.44E-04	1.73E-07
3383	421066	3734653	5.21E-04	2.38E-03	5.21E-06	7.14E-05	3.26E-04	7.76E-07	4.38E-05	1.50E-04	1.80E-07
3384	421062.1	3734662	5.40E-04	2.47E-03	5.40E-06	7.40E-05	3.38E-04	8.04E-07	4.54E-05	1.55E-04	1.87E-07
3385	421058.2	3734671	5.57E-04	2.55E-03	5.57E-06	7.64E-05	3.48E-04	8.30E-07	4.69E-05	1.60E-04	1.93E-07
3386	421054.3	3734680	5.73E-04	2.62E-03	5.73E-06	7.86E-05	3.59E-04	8.54E-07	4.82E-05	1.65E-04	1.98E-07
3387	421050.4	3734689	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.75E-07	4.95E-05	1.69E-04	2.03E-07
3388	421046.5	3734698	6.01E-04	2.75E-03	6.01E-06	8.24E-05	3.76E-04	8.95E-07	5.06E-05	1.73E-04	2.08E-07
3389	421042.6	3734707	6.15E-04	2.81E-03	6.14E-06	8.43E-05	3.84E-04	9.15E-07	5.17E-05	1.77E-04	2.12E-07
3390	421038.8	3734716	6.26E-04	2.86E-03	6.25E-06	8.58E-05	3.91E-04	9.31E-07	5.26E-05	1.80E-04	2.16E-07
3391	421034.9	3734725	6.34E-04	2.90E-03	6.33E-06	8.69E-05	3.96E-04	9.43E-07	5.33E-05	1.82E-04	2.19E-07
3392	421023.2	3734751	6.38E-04	2.92E-03	6.38E-06	8.75E-05	3.99E-04	9.50E-07	5.37E-05	1.83E-04	2.21E-07
3393	421019.3	3734760	6.36E-04	2.91E-03	6.36E-06	8.72E-05	3.98E-04	9.47E-07	5.35E-05	1.83E-04	2.20E-07
3394	420990.8	3734809	6.16E-04	2.82E-03	6.16E-06	8.45E-05	3.85E-04	9.17E-07	5.18E-05	1.77E-04	2.13E-07
3395	420981.8	3734813	6.28E-04	2.87E-03	6.28E-06	8.61E-05	3.93E-04	9.35E-07	5.28E-05	1.81E-04	2.17E-07
3396	420972.8	3734817	6.38E-04	2.92E-03	6.38E-06	8.75E-05	3.99E-04	9.50E-07	5.37E-05	1.83E-04	2.21E-07
3397	420963.8	3734820	6.47E-04	2.96E-03	6.46E-06	8.86E-05	4.04E-04	9.62E-07	5.44E-05	1.86E-04	2.23E-07
3398	420954.8	3734824	6.53E-04	2.99E-03	6.53E-06	8.95E-05	4.08E-04	9.72E-07	5.49E-05	1.88E-04	2.26E-07
3399	420945.7	3734828	6.57E-04	3.00E-03	6.57E-06	9.01E-05	4.11E-04	9.78E-07	5.53E-05	1.89E-04	2.27E-07
3400	420936.7	3734832	6.57E-04	3.01E-03	6.57E-06	9.01E-05	4.11E-04	9.79E-07	5.53E-05	1.89E-04	2.27E-07
3401	420927.7	3734836	6.54E-04	2.99E-03	6.54E-06	8.97E-05	4.09E-04	9.74E-07	5.50E-05	1.88E-04	2.26E-07
3402	420918.7	3734839	6.47E-04	2.96E-03	6.47E-06	8.87E-05	4.04E-04	9.63E-07	5.44E-05	1.86E-04	2.24E-07
3403	420909.7	3734843	6.36E-04	2.91E-03	6.36E-06	8.72E-05	3.98E-04	9.47E-07	5.35E-05	1.83E-04	2.20E-07
3404	420900.6	3734847	6.22E-04	2.85E-03	6.22E-06	8.53E-05	3.89E-04	9.26E-07	5.24E-05	1.79E-04	2.15E-07
3405	420891.6	3734851	6.04E-04	2.76E-03	6.04E-06	8.28E-05	3.78E-04	8.99E-07	5.08E-05	1.74E-04	2.09E-07
3406	420882.6	3734854	5.83E-04	2.66E-03	5.83E-06	7.99E-05	3.64E-04	8.68E-07	4.90E-05	1.67E-04	2.01E-07
3407	420873.6	3734858	5.59E-04	2.56E-03	5.59E-06	7.66E-05	3.49E-04	8.32E-07	4.70E-05	1.61E-04	1.93E-07
3408	420864.6	3734862	5.33E-04	2.44E-03	5.32E-06	7.30E-05	3.33E-04	7.93E-07	4.48E-05	1.53E-04	1.84E-07
3409	420855.6	3734866	5.04E-04	2.31E-03	5.04E-06	6.91E-05	3.15E-04	7.51E-07	4.24E-05	1.45E-04	1.74E-07
3410	420846.5	3734870	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	3.99E-05	1.36E-04	1.64E-07
3411	420837.5	3734873	4.44E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.61E-07	3.74E-05	1.28E-04	1.53E-07
3412	420828.5	3734877	4.13E-04	1.89E-03	4.13E-06	5.66E-05	2.58E-04	6.15E-07	3.47E-05	1.19E-04	1.43E-07
3413	420819.5	3734881	3.82E-04	1.75E-03	3.82E-06	5.23E-05	2.39E-04	5.68E-07	3.21E-05	1.10E-04	1.32E-07
3414	420810.5	3734885	3.51E-04	1.60E-03	3.50E-06	4.81E-05	2.19E-04	5.22E-07	2.95E-05	1.01E-04	1.21E-07
3415	420801.4	3734888	3.21E-04	1.47E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.70E-05	9.21E-05	1.11E-07
3416	420792.4	3734892	2.92E-04	1.33E-03	2.92E-06	4.00E-05	1.83E-04	4.35E-07	2.46E-05	8.39E-05	1.01E-07
3417	420783.4	3734896	2.65E-04	1.21E-03	2.65E-06	3.64E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.16E-08
3418	420774.4	3734900	2.40E-04	1.10E-03	2.39E-06	3.28E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.28E-08

3419	420765.4	3734904	2.16E-04	9.86E-04	2.16E-06	2.96E-05	1.35E-04	3.21E-07	1.81E-05	6.20E-05	7.45E-08
3420	420756.3	3734907	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
3421	420747.3	3734911	1.73E-04	7.92E-04	1.73E-06	2.38E-05	1.08E-04	2.58E-07	1.46E-05	4.98E-05	5.99E-08
3422	421144.9	3734564	2.37E-04	1.08E-03	2.37E-06	3.25E-05	1.48E-04	3.53E-07	1.99E-05	6.81E-05	8.19E-08
3423	421141	3734573	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.14E-05	7.30E-05	8.78E-08
3424	421137.1	3734582	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.80E-05	9.38E-08
3425	421133.2	3734591	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.80E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3426	421129.3	3734600	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.92E-04	4.56E-07	2.58E-05	8.81E-05	1.06E-07
3427	421125.4	3734609	3.25E-04	1.48E-03	3.25E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.33E-05	1.12E-07
3428	421121.5	3734618	3.42E-04	1.56E-03	3.42E-06	4.69E-05	2.14E-04	5.09E-07	2.88E-05	9.83E-05	1.18E-07
3429	421117.6	3734627	3.59E-04	1.64E-03	3.59E-06	4.92E-05	2.24E-04	5.35E-07	3.02E-05	1.03E-04	1.24E-07
3430	421090.3	3734690	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
3431	421086.4	3734699	4.74E-04	2.17E-03	4.74E-06	6.50E-05	2.97E-04	7.06E-07	3.99E-05	1.36E-04	1.64E-07
3432	421082.5	3734708	4.86E-04	2.22E-03	4.86E-06	6.67E-05	3.04E-04	7.24E-07	4.09E-05	1.40E-04	1.68E-07
3433	421078.6	3734717	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
3434	421074.7	3734726	5.08E-04	2.32E-03	5.07E-06	6.96E-05	3.17E-04	7.56E-07	4.27E-05	1.46E-04	1.75E-07
3435	421063	3734753	5.28E-04	2.41E-03	5.28E-06	7.24E-05	3.30E-04	7.86E-07	4.44E-05	1.52E-04	1.82E-07
3436	421059.1	3734762	5.31E-04	2.43E-03	5.30E-06	7.28E-05	3.32E-04	7.90E-07	4.47E-05	1.53E-04	1.83E-07
3437	421055.2	3734771	5.28E-04	2.42E-03	5.28E-06	7.24E-05	3.30E-04	7.86E-07	4.44E-05	1.52E-04	1.83E-07
3438	421051.3	3734780	5.29E-04	2.42E-03	5.28E-06	7.25E-05	3.31E-04	7.87E-07	4.45E-05	1.52E-04	1.83E-07
3439	421047.4	3734789	5.28E-04	2.41E-03	5.27E-06	7.23E-05	3.30E-04	7.85E-07	4.44E-05	1.52E-04	1.82E-07
3440	421043.5	3734798	5.25E-04	2.40E-03	5.25E-06	7.20E-05	3.28E-04	7.82E-07	4.42E-05	1.51E-04	1.81E-07
3441	421039.7	3734807	5.21E-04	2.38E-03	5.21E-06	7.15E-05	3.26E-04	7.76E-07	4.39E-05	1.50E-04	1.80E-07
3442	421035.8	3734816	5.17E-04	2.36E-03	5.16E-06	7.08E-05	3.23E-04	7.69E-07	4.35E-05	1.48E-04	1.79E-07
3443	421031.9	3734825	5.11E-04	2.34E-03	5.10E-06	7.00E-05	3.19E-04	7.60E-07	4.30E-05	1.47E-04	1.76E-07
3444	421018.9	3734838	5.12E-04	2.34E-03	5.12E-06	7.02E-05	3.20E-04	7.62E-07	4.31E-05	1.47E-04	1.77E-07
3445	420991.8	3734849	5.34E-04	2.44E-03	5.34E-06	7.33E-05	3.34E-04	7.96E-07	4.50E-05	1.54E-04	1.85E-07
3446	420982.8	3734853	5.40E-04	2.47E-03	5.40E-06	7.40E-05	3.38E-04	8.04E-07	4.54E-05	1.55E-04	1.87E-07
3447	420973.8	3734856	5.44E-04	2.49E-03	5.44E-06	7.45E-05	3.40E-04	8.09E-07	4.58E-05	1.56E-04	1.88E-07
3448	420964.7	3734860	5.46E-04	2.49E-03	5.45E-06	7.48E-05	3.41E-04	8.12E-07	4.59E-05	1.57E-04	1.89E-07
3449	420955.7	3734864	5.45E-04	2.49E-03	5.45E-06	7.47E-05	3.41E-04	8.11E-07	4.58E-05	1.57E-04	1.88E-07
3450	420946.7	3734868	5.42E-04	2.48E-03	5.42E-06	7.43E-05	3.39E-04	8.07E-07	4.56E-05	1.56E-04	1.87E-07
3451	420937.6	3734872	5.37E-04	2.45E-03	5.36E-06	7.36E-05	3.35E-04	7.99E-07	4.51E-05	1.54E-04	1.85E-07
3452	420928.6	3734875	5.29E-04	2.42E-03	5.28E-06	7.25E-05	3.30E-04	7.87E-07	4.45E-05	1.52E-04	1.83E-07
3453	420919.6	3734879	5.17E-04	2.37E-03	5.17E-06	7.09E-05	3.23E-04	7.70E-07	4.35E-05	1.49E-04	1.79E-07
3454	420910.5	3734883	5.04E-04	2.30E-03	5.03E-06	6.90E-05	3.15E-04	7.50E-07	4.24E-05	1.45E-04	1.74E-07
3455	420901.5	3734887	4.87E-04	2.23E-03	4.87E-06	6.68E-05	3.05E-04	7.26E-07	4.10E-05	1.40E-04	1.68E-07
3456	420892.5	3734891	4.69E-04	2.15E-03	4.69E-06	6.43E-05	2.93E-04	6.98E-07	3.95E-05	1.35E-04	1.62E-07
3457	420883.4	3734894	4.49E-04	2.05E-03	4.49E-06	6.15E-05	2.81E-04	6.68E-07	3.78E-05	1.29E-04	1.55E-07
3458	420874.4	3734898	4.27E-04	1.95E-03	4.27E-06	5.85E-05	2.67E-04	6.35E-07	3.59E-05	1.23E-04	1.48E-07
3459	420865.4	3734902	4.04E-04	1.85E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.40E-05	1.16E-04	1.40E-07
3460	420856.3	3734906	3.80E-04	1.74E-03	3.80E-06	5.21E-05	2.38E-04	5.66E-07	3.20E-05	1.09E-04	1.31E-07
3461	420847.3	3734909	3.56E-04	1.63E-03	3.55E-06	4.88E-05	2.22E-04	5.29E-07	2.99E-05	1.02E-04	1.23E-07
3462	420838.3	3734913	3.31E-04	1.52E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.15E-07
3463	420829.2	3734917	3.07E-04	1.41E-03	3.07E-06	4.21E-05	1.92E-04	4.58E-07	2.59E-05	8.83E-05	1.06E-07
3464	420820.2	3734921	2.84E-04	1.30E-03	2.84E-06	3.89E-05	1.77E-04	4.23E-07	2.39E-05	8.16E-05	9.81E-08
3465	420811.2	3734925	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.88E-07	2.20E-05	7.50E-05	9.02E-08
3466	420802.1	3734928	2.40E-04	1.10E-03	2.39E-06	3.28E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.28E-08
3467	420793.1	3734932	2.19E-04	1.00E-03	2.19E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.31E-05	7.58E-08
3468	420784.1	3734936	2.01E-04	9.17E-04	2.00E-06	2.75E-05	1.25E-04	2.99E-07	1.69E-05	5.76E-05	6.93E-08
3469	420775	3734940	1.82E-04	8.34E-04	1.82E-06	2.50E-05	1.14E-04	2.72E-07	1.53E-05	5.24E-05	6.30E-08
3470	420766	3734944	1.65E-04	7.55E-04	1.65E-06	2.26E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.71E-08
3471	420757	3734947	1.49E-04	6.83E-04	1.49E-06	2.05E-05	9.34E-05	2.22E-07	1.26E-05	4.29E-05	5.16E-08
3472	420747.9	3734951	1.35E-04	6.15E-04	1.34E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
3473	421152.9	3734536	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
3474	421153.2	3734526	1.86E-04	8.49E-04	1.86E-06	2.55E-05	1.16E-04	2.77E-07	1.56E-05	5.34E-05	6.42E-08
3475	421153.4	3734516	1.76E-04	8.03E-04	1.76E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.05E-05	6.07E-08
3476	421184.8	3734565	1.86E-04	8.52E-04	1.86E-06	2.56E-05	1.17E-04	2.77E-07	1.57E-05	5.36E-05	6.44E-08
3477	421180.9	3734574	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.85E-08

3478	421177	3734583	2.11E-04	9.63E-04	2.11E-06	2.89E-05	1.32E-04	3.14E-07	1.77E-05	6.05E-05	7.28E-08
3479	421173.1	3734592	2.24E-04	1.03E-03	2.24E-06	3.08E-05	1.40E-04	3.34E-07	1.89E-05	6.45E-05	7.75E-08
3480	421169.2	3734601	2.38E-04	1.09E-03	2.38E-06	3.27E-05	1.49E-04	3.55E-07	2.01E-05	6.85E-05	8.24E-08
3481	421165.3	3734610	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.76E-07	2.13E-05	7.27E-05	8.74E-08
3482	421161.4	3734619	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.24E-05	7.66E-05	9.22E-08
3483	421157.5	3734628	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.70E-08
3484	421153.6	3734637	2.95E-04	1.35E-03	2.94E-06	4.04E-05	1.84E-04	4.38E-07	2.48E-05	8.46E-05	1.02E-07
3485	421149.7	3734646	3.08E-04	1.41E-03	3.08E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.85E-05	1.06E-07
3486	421145.8	3734655	3.21E-04	1.47E-03	3.21E-06	4.40E-05	2.01E-04	4.77E-07	2.70E-05	9.22E-05	1.11E-07
3487	421141.9	3734664	3.33E-04	1.52E-03	3.33E-06	4.56E-05	2.08E-04	4.96E-07	2.80E-05	9.57E-05	1.15E-07
3488	421138	3734673	3.45E-04	1.58E-03	3.45E-06	4.73E-05	2.16E-04	5.14E-07	2.90E-05	9.92E-05	1.19E-07
3489	421134.1	3734682	3.58E-04	1.64E-03	3.58E-06	4.90E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
3490	421130.2	3734691	3.70E-04	1.69E-03	3.69E-06	5.07E-05	2.31E-04	5.50E-07	3.11E-05	1.06E-04	1.28E-07
3491	421126.3	3734700	3.81E-04	1.74E-03	3.80E-06	5.22E-05	2.38E-04	5.67E-07	3.20E-05	1.09E-04	1.32E-07
3492	421122.4	3734709	3.91E-04	1.79E-03	3.91E-06	5.36E-05	2.45E-04	5.82E-07	3.29E-05	1.12E-04	1.35E-07
3493	421118.5	3734718	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.37E-05	1.15E-04	1.39E-07
3494	421091.2	3734781	4.43E-04	2.03E-03	4.43E-06	6.08E-05	2.77E-04	6.60E-07	3.73E-05	1.27E-04	1.53E-07
3495	421087.3	3734790	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.74E-05	1.28E-04	1.54E-07
3496	421083.4	3734799	4.45E-04	2.03E-03	4.45E-06	6.10E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
3497	421079.5	3734808	4.44E-04	2.03E-03	4.44E-06	6.08E-05	2.77E-04	6.61E-07	3.73E-05	1.28E-04	1.53E-07
3498	421075.6	3734817	4.42E-04	2.02E-03	4.42E-06	6.06E-05	2.77E-04	6.58E-07	3.72E-05	1.27E-04	1.53E-07
3499	421071.7	3734826	4.40E-04	2.01E-03	4.39E-06	6.02E-05	2.75E-04	6.54E-07	3.70E-05	1.26E-04	1.52E-07
3500	421067.8	3734835	4.36E-04	1.99E-03	4.36E-06	5.98E-05	2.73E-04	6.49E-07	3.67E-05	1.25E-04	1.51E-07
3501	421063.9	3734844	4.32E-04	1.97E-03	4.32E-06	5.92E-05	2.70E-04	6.43E-07	3.63E-05	1.24E-04	1.49E-07
3502	421060	3734853	4.28E-04	1.96E-03	4.27E-06	5.86E-05	2.67E-04	6.37E-07	3.60E-05	1.23E-04	1.48E-07
3503	421047	3734866	4.32E-04	1.98E-03	4.32E-06	5.92E-05	2.70E-04	6.43E-07	3.63E-05	1.24E-04	1.49E-07
3504	421038	3734870	4.39E-04	2.01E-03	4.39E-06	6.02E-05	2.74E-04	6.53E-07	3.69E-05	1.26E-04	1.52E-07
3505	421028.9	3734874	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3506	421019.9	3734877	4.51E-04	2.06E-03	4.50E-06	6.18E-05	2.82E-04	6.71E-07	3.79E-05	1.29E-04	1.56E-07
3507	420992.8	3734889	4.60E-04	2.10E-03	4.59E-06	6.30E-05	2.87E-04	6.84E-07	3.87E-05	1.32E-04	1.59E-07
3508	420983.7	3734893	4.60E-04	2.10E-03	4.60E-06	6.31E-05	2.88E-04	6.85E-07	3.87E-05	1.32E-04	1.59E-07
3509	420974.7	3734896	4.60E-04	2.10E-03	4.59E-06	6.30E-05	2.87E-04	6.84E-07	3.87E-05	1.32E-04	1.59E-07
3510	420965.6	3734900	4.57E-04	2.09E-03	4.57E-06	6.26E-05	2.86E-04	6.80E-07	3.84E-05	1.31E-04	1.58E-07
3511	420956.6	3734904	4.52E-04	2.07E-03	4.52E-06	6.20E-05	2.83E-04	6.73E-07	3.81E-05	1.30E-04	1.56E-07
3512	420947.5	3734908	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3513	420938.5	3734911	4.36E-04	2.00E-03	4.36E-06	5.98E-05	2.73E-04	6.50E-07	3.67E-05	1.25E-04	1.51E-07
3514	420929.4	3734915	4.26E-04	1.95E-03	4.25E-06	5.83E-05	2.66E-04	6.34E-07	3.58E-05	1.22E-04	1.47E-07
3515	420920.4	3734919	4.13E-04	1.89E-03	4.13E-06	5.66E-05	2.58E-04	6.15E-07	3.48E-05	1.19E-04	1.43E-07
3516	420911.3	3734923	3.99E-04	1.82E-03	3.99E-06	5.47E-05	2.49E-04	5.94E-07	3.36E-05	1.15E-04	1.38E-07
3517	420902.3	3734927	3.83E-04	1.75E-03	3.83E-06	5.25E-05	2.39E-04	5.70E-07	3.22E-05	1.10E-04	1.32E-07
3518	420893.3	3734930	3.66E-04	1.67E-03	3.66E-06	5.02E-05	2.29E-04	5.45E-07	3.08E-05	1.05E-04	1.26E-07
3519	420884.2	3734934	3.48E-04	1.59E-03	3.48E-06	4.77E-05	2.18E-04	5.18E-07	2.93E-05	1.00E-04	1.20E-07
3520	420875.2	3734938	3.30E-04	1.51E-03	3.30E-06	4.52E-05	2.06E-04	4.91E-07	2.78E-05	9.48E-05	1.14E-07
3521	420866.1	3734942	3.11E-04	1.42E-03	3.11E-06	4.27E-05	1.95E-04	4.63E-07	2.62E-05	8.94E-05	1.08E-07
3522	420857.1	3734946	2.92E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.35E-07	2.46E-05	8.40E-05	1.01E-07
3523	420848	3734949	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.07E-07	2.30E-05	7.85E-05	9.44E-08
3524	420839	3734953	2.54E-04	1.16E-03	2.54E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.31E-05	8.79E-08
3525	420829.9	3734957	2.36E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.79E-05	8.16E-08
3526	420820.9	3734961	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.29E-05	7.56E-08
3527	420811.8	3734965	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.99E-08
3528	420802.8	3734968	1.86E-04	8.51E-04	1.86E-06	2.55E-05	1.16E-04	2.77E-07	1.57E-05	5.35E-05	6.43E-08
3529	420793.7	3734972	1.70E-04	7.79E-04	1.70E-06	2.34E-05	1.07E-04	2.54E-07	1.43E-05	4.90E-05	5.89E-08
3530	420784.7	3734976	1.56E-04	7.12E-04	1.56E-06	2.13E-05	9.74E-05	2.32E-07	1.31E-05	4.47E-05	5.38E-08
3531	420775.7	3734980	1.42E-04	6.50E-04	1.42E-06	1.95E-05	8.88E-05	2.11E-07	1.20E-05	4.08E-05	4.91E-08
3532	420766.6	3734984	1.29E-04	5.91E-04	1.29E-06	1.77E-05	8.09E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
3533	420757.6	3734987	1.18E-04	5.38E-04	1.18E-06	1.61E-05	7.36E-05	1.75E-07	9.90E-06	3.38E-05	4.07E-08
3534	420748.5	3734991	1.07E-04	4.89E-04	1.07E-06	1.47E-05	6.69E-05	1.59E-07	9.00E-06	3.07E-05	3.69E-08
3535	421192.9	3734537	1.56E-04	7.14E-04	1.56E-06	2.14E-05	9.77E-05	2.33E-07	1.31E-05	4.49E-05	5.40E-08
3536	421193.2	3734527	1.48E-04	6.79E-04	1.48E-06	2.03E-05	9.28E-05	2.21E-07	1.25E-05	4.27E-05	5.13E-08

3537	421193.4	3734517	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.81E-05	2.10E-07	1.19E-05	4.05E-05	4.87E-08
3538	421213.1	3734593	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.20E-05	6.25E-08
3539	421209.2	3734602	1.91E-04	8.74E-04	1.91E-06	2.62E-05	1.20E-04	2.85E-07	1.61E-05	5.49E-05	6.61E-08
3540	421205.3	3734611	2.02E-04	9.22E-04	2.02E-06	2.76E-05	1.26E-04	3.00E-07	1.70E-05	5.79E-05	6.97E-08
3541	421201.4	3734620	2.12E-04	9.68E-04	2.12E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.09E-05	7.32E-08
3542	421197.5	3734629	2.22E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
3543	421193.6	3734638	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.48E-07	1.96E-05	6.71E-05	8.07E-08
3544	421189.7	3734647	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.64E-07	2.06E-05	7.03E-05	8.46E-08
3545	421185.7	3734656	2.56E-04	1.17E-03	2.56E-06	3.51E-05	1.60E-04	3.81E-07	2.15E-05	7.35E-05	8.84E-08
3546	421181.8	3734665	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.25E-05	7.67E-05	9.22E-08
3547	421177.9	3734674	2.77E-04	1.27E-03	2.77E-06	3.80E-05	1.73E-04	4.13E-07	2.33E-05	7.97E-05	9.59E-08
3548	421174	3734683	2.88E-04	1.32E-03	2.88E-06	3.95E-05	1.80E-04	4.29E-07	2.42E-05	8.28E-05	9.96E-08
3549	421170.1	3734692	2.99E-04	1.37E-03	2.99E-06	4.10E-05	1.87E-04	4.45E-07	2.51E-05	8.59E-05	1.03E-07
3550	421166.2	3734701	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
3551	421162.3	3734710	3.18E-04	1.45E-03	3.18E-06	4.36E-05	1.99E-04	4.73E-07	2.67E-05	9.13E-05	1.10E-07
3552	421158.4	3734719	3.27E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.39E-05	1.13E-07
3553	421154.5	3734728	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.10E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
3554	421150.6	3734737	3.42E-04	1.57E-03	3.42E-06	4.69E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
3555	421146.7	3734746	3.49E-04	1.60E-03	3.49E-06	4.79E-05	2.18E-04	5.20E-07	2.94E-05	1.00E-04	1.21E-07
3556	421142.8	3734756	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.22E-04	5.30E-07	2.99E-05	1.02E-04	1.23E-07
3557	421138.9	3734765	3.61E-04	1.65E-03	3.61E-06	4.95E-05	2.26E-04	5.38E-07	3.04E-05	1.04E-04	1.25E-07
3558	421135	3734774	3.66E-04	1.67E-03	3.66E-06	5.02E-05	2.29E-04	5.45E-07	3.08E-05	1.05E-04	1.26E-07
3559	421131.1	3734783	3.70E-04	1.69E-03	3.70E-06	5.07E-05	2.31E-04	5.51E-07	3.11E-05	1.06E-04	1.28E-07
3560	421127.2	3734792	3.73E-04	1.71E-03	3.73E-06	5.11E-05	2.33E-04	5.55E-07	3.14E-05	1.07E-04	1.29E-07
3561	421092	3734873	3.60E-04	1.64E-03	3.59E-06	4.93E-05	2.25E-04	5.35E-07	3.03E-05	1.03E-04	1.24E-07
3562	421088.1	3734882	3.57E-04	1.63E-03	3.57E-06	4.89E-05	2.23E-04	5.31E-07	3.00E-05	1.03E-04	1.23E-07
3563	421075.1	3734894	3.63E-04	1.66E-03	3.63E-06	4.98E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
3564	421066.1	3734898	3.70E-04	1.69E-03	3.70E-06	5.08E-05	2.31E-04	5.51E-07	3.11E-05	1.06E-04	1.28E-07
3565	421057	3734902	3.77E-04	1.72E-03	3.77E-06	5.17E-05	2.36E-04	5.61E-07	3.17E-05	1.08E-04	1.30E-07
3566	421048	3734906	3.83E-04	1.75E-03	3.82E-06	5.25E-05	2.39E-04	5.70E-07	3.22E-05	1.10E-04	1.32E-07
3567	421038.9	3734910	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.76E-07	3.26E-05	1.11E-04	1.34E-07
3568	421029.8	3734913	3.91E-04	1.79E-03	3.90E-06	5.35E-05	2.44E-04	5.81E-07	3.29E-05	1.12E-04	1.35E-07
3569	421020.8	3734917	3.93E-04	1.80E-03	3.93E-06	5.39E-05	2.46E-04	5.85E-07	3.31E-05	1.13E-04	1.36E-07
3570	420993.6	3734929	3.91E-04	1.79E-03	3.91E-06	5.36E-05	2.45E-04	5.82E-07	3.29E-05	1.12E-04	1.35E-07
3571	420984.6	3734932	3.89E-04	1.78E-03	3.88E-06	5.33E-05	2.43E-04	5.78E-07	3.27E-05	1.12E-04	1.34E-07
3572	420975.5	3734936	3.85E-04	1.76E-03	3.84E-06	5.27E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
3573	420966.5	3734940	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.65E-07	3.19E-05	1.09E-04	1.31E-07
3574	420957.4	3734944	3.72E-04	1.70E-03	3.72E-06	5.11E-05	2.33E-04	5.54E-07	3.13E-05	1.07E-04	1.29E-07
3575	420948.3	3734948	3.64E-04	1.66E-03	3.64E-06	4.99E-05	2.27E-04	5.41E-07	3.06E-05	1.05E-04	1.26E-07
3576	420939.3	3734951	3.54E-04	1.62E-03	3.54E-06	4.85E-05	2.21E-04	5.27E-07	2.98E-05	1.02E-04	1.22E-07
3577	420930.2	3734955	3.43E-04	1.57E-03	3.43E-06	4.70E-05	2.14E-04	5.10E-07	2.88E-05	9.85E-05	1.18E-07
3578	420921.2	3734959	3.30E-04	1.51E-03	3.30E-06	4.52E-05	2.06E-04	4.91E-07	2.78E-05	9.48E-05	1.14E-07
3579	420912.1	3734963	3.16E-04	1.45E-03	3.16E-06	4.33E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
3580	420903.1	3734967	3.02E-04	1.38E-03	3.02E-06	4.14E-05	1.89E-04	4.49E-07	2.54E-05	8.67E-05	1.04E-07
3581	420894	3734970	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
3582	420885	3734974	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.07E-07	2.30E-05	7.85E-05	9.44E-08
3583	420875.9	3734978	2.59E-04	1.18E-03	2.58E-06	3.54E-05	1.62E-04	3.85E-07	2.18E-05	7.43E-05	8.93E-08
3584	420866.8	3734982	2.44E-04	1.11E-03	2.44E-06	3.34E-05	1.52E-04	3.63E-07	2.05E-05	7.00E-05	8.42E-08
3585	420857.8	3734986	2.28E-04	1.04E-03	2.28E-06	3.13E-05	1.43E-04	3.40E-07	1.92E-05	6.56E-05	7.89E-08
3586	420848.7	3734989	2.13E-04	9.75E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.13E-05	7.37E-08
3587	420839.7	3734993	1.98E-04	9.07E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
3588	420830.6	3734997	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3589	420821.6	3735001	1.70E-04	7.78E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.89E-05	5.88E-08
3590	420812.5	3735005	1.57E-04	7.18E-04	1.57E-06	2.15E-05	9.82E-05	2.34E-07	1.32E-05	4.51E-05	5.43E-08
3591	420803.4	3735008	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
3592	420794.4	3735012	1.34E-04	6.11E-04	1.33E-06	1.83E-05	8.35E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
3593	420785.3	3735016	1.23E-04	5.62E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.03E-05	3.53E-05	4.25E-08
3594	420776.3	3735020	1.13E-04	5.16E-04	1.13E-06	1.55E-05	7.06E-05	1.68E-07	9.50E-06	3.24E-05	3.90E-08
3595	420767.2	3735024	1.03E-04	4.72E-04	1.03E-06	1.42E-05	6.46E-05	1.54E-07	8.69E-06	2.97E-05	3.57E-08

3596	421232.9	3734538	1.30E-04	5.94E-04	1.30E-06	1.78E-05	8.12E-05	1.93E-07	1.09E-05	3.73E-05	4.49E-08
3597	421233.2	3734528	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.55E-05	4.26E-08
3598	421233.4	3734518	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.32E-05	1.74E-07	9.86E-06	3.37E-05	4.05E-08
3599	421253.1	3734594	1.51E-04	6.89E-04	1.51E-06	2.07E-05	9.42E-05	2.24E-07	1.27E-05	4.33E-05	5.21E-08
3600	421249.1	3734603	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
3601	421245.2	3734612	1.68E-04	7.67E-04	1.68E-06	2.30E-05	1.05E-04	2.50E-07	1.41E-05	4.82E-05	5.80E-08
3602	421241.3	3734622	1.76E-04	8.05E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.06E-05	6.09E-08
3603	421237.4	3734631	1.85E-04	8.44E-04	1.84E-06	2.53E-05	1.15E-04	2.75E-07	1.55E-05	5.30E-05	6.38E-08
3604	421233.5	3734640	1.93E-04	8.83E-04	1.93E-06	2.65E-05	1.21E-04	2.87E-07	1.62E-05	5.55E-05	6.67E-08
3605	421229.6	3734649	2.01E-04	9.19E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
3606	421225.7	3734658	2.09E-04	9.56E-04	2.09E-06	2.87E-05	1.31E-04	3.11E-07	1.76E-05	6.01E-05	7.23E-08
3607	421221.8	3734667	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
3608	421217.9	3734676	2.26E-04	1.03E-03	2.25E-06	3.09E-05	1.41E-04	3.36E-07	1.90E-05	6.48E-05	7.79E-08
3609	421214	3734685	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.47E-07	1.96E-05	6.71E-05	8.07E-08
3610	421210	3734694	2.41E-04	1.10E-03	2.41E-06	3.30E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.33E-08
3611	421206.1	3734703	2.49E-04	1.14E-03	2.49E-06	3.41E-05	1.56E-04	3.70E-07	2.09E-05	7.15E-05	8.60E-08
3612	421202.2	3734712	2.57E-04	1.17E-03	2.57E-06	3.52E-05	1.61E-04	3.82E-07	2.16E-05	7.38E-05	8.88E-08
3613	421198.3	3734721	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.16E-08
3614	421194.4	3734730	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.06E-07	2.30E-05	7.84E-05	9.43E-08
3615	421190.5	3734739	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.67E-08
3616	421186.6	3734748	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.24E-05	9.91E-08
3617	421182.7	3734757	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
3618	421178.8	3734766	2.99E-04	1.37E-03	2.99E-06	4.11E-05	1.87E-04	4.46E-07	2.52E-05	8.61E-05	1.03E-07
3619	421174.9	3734775	3.05E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.75E-05	1.05E-07
3620	421170.9	3734784	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
3621	421167	3734793	3.13E-04	1.43E-03	3.13E-06	4.29E-05	1.96E-04	4.66E-07	2.63E-05	8.99E-05	1.08E-07
3622	421155.3	3734820	3.15E-04	1.44E-03	3.15E-06	4.32E-05	1.97E-04	4.70E-07	2.65E-05	9.06E-05	1.09E-07
3623	421151.4	3734829	3.14E-04	1.44E-03	3.14E-06	4.31E-05	1.96E-04	4.68E-07	2.64E-05	9.03E-05	1.09E-07
3624	421147.5	3734838	3.13E-04	1.43E-03	3.12E-06	4.28E-05	1.95E-04	4.65E-07	2.63E-05	8.98E-05	1.08E-07
3625	421143.6	3734847	3.10E-04	1.42E-03	3.10E-06	4.26E-05	1.94E-04	4.62E-07	2.61E-05	8.92E-05	1.07E-07
3626	421139.7	3734856	3.09E-04	1.41E-03	3.08E-06	4.23E-05	1.93E-04	4.59E-07	2.60E-05	8.87E-05	1.07E-07
3627	421135.8	3734865	3.08E-04	1.41E-03	3.07E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
3628	421131.8	3734874	3.06E-04	1.40E-03	3.06E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.79E-05	1.06E-07
3629	421127.9	3734883	3.04E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.74E-05	1.05E-07
3630	421124	3734892	3.03E-04	1.38E-03	3.03E-06	4.15E-05	1.89E-04	4.51E-07	2.55E-05	8.70E-05	1.05E-07
3631	421085.1	3734931	3.19E-04	1.46E-03	3.19E-06	4.38E-05	2.00E-04	4.75E-07	2.69E-05	9.17E-05	1.10E-07
3632	421076	3734934	3.25E-04	1.48E-03	3.25E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.33E-05	1.12E-07
3633	421067	3734938	3.29E-04	1.51E-03	3.29E-06	4.51E-05	2.06E-04	4.90E-07	2.77E-05	9.46E-05	1.14E-07
3634	421057.9	3734942	3.33E-04	1.52E-03	3.33E-06	4.56E-05	2.08E-04	4.95E-07	2.80E-05	9.56E-05	1.15E-07
3635	421048.8	3734946	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.64E-05	1.16E-07
3636	421039.8	3734950	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.01E-07	2.83E-05	9.68E-05	1.16E-07
3637	421030.7	3734953	3.37E-04	1.54E-03	3.37E-06	4.63E-05	2.11E-04	5.02E-07	2.84E-05	9.70E-05	1.17E-07
3638	421021.6	3734957	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.02E-07	2.84E-05	9.69E-05	1.17E-07
3639	420994.5	3734968	3.30E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.49E-05	1.14E-07
3640	420985.4	3734972	3.26E-04	1.49E-03	3.25E-06	4.46E-05	2.04E-04	4.85E-07	2.74E-05	9.36E-05	1.13E-07
3641	420976.3	3734976	3.20E-04	1.46E-03	3.19E-06	4.38E-05	2.00E-04	4.76E-07	2.69E-05	9.18E-05	1.10E-07
3642	420967.3	3734980	3.13E-04	1.43E-03	3.13E-06	4.29E-05	1.95E-04	4.65E-07	2.63E-05	8.98E-05	1.08E-07
3643	420958.2	3734984	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.56E-05	8.76E-05	1.05E-07
3644	420949.1	3734987	2.96E-04	1.35E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.51E-05	1.02E-07
3645	420940.1	3734991	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.23E-05	9.89E-08
3646	420931	3734995	2.76E-04	1.26E-03	2.76E-06	3.78E-05	1.72E-04	4.11E-07	2.32E-05	7.93E-05	9.53E-08
3647	420921.9	3734999	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.66E-04	3.94E-07	2.23E-05	7.61E-05	9.15E-08
3648	420912.9	3735003	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.27E-05	8.75E-08
3649	420903.8	3735006	2.41E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.34E-08
3650	420894.7	3735010	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.59E-05	7.93E-08
3651	420885.7	3735014	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
3652	420876.6	3735018	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
3653	420867.5	3735022	1.93E-04	8.84E-04	1.93E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.56E-05	6.68E-08
3654	420776.9	3735060	9.14E-05	4.18E-04	9.13E-07	1.25E-05	5.71E-05	1.36E-07	7.69E-06	2.63E-05	3.16E-08

3655	420767.8	3735063	8.38E-05	3.83E-04	8.38E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.90E-08
3656	420758.8	3735067	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.14E-07	6.47E-06	2.21E-05	2.66E-08
3657	420749.7	3735071	7.06E-05	3.23E-04	7.05E-07	9.67E-06	4.41E-05	1.05E-07	5.94E-06	2.03E-05	2.44E-08
3658	421272.9	3734539	1.09E-04	4.96E-04	1.09E-06	1.49E-05	6.79E-05	1.62E-07	9.13E-06	3.12E-05	3.75E-08
3659	421273.1	3734529	1.03E-04	4.73E-04	1.03E-06	1.42E-05	6.46E-05	1.54E-07	8.70E-06	2.97E-05	3.57E-08
3660	421273.4	3734519	9.84E-05	4.50E-04	9.84E-07	1.35E-05	6.15E-05	1.46E-07	8.28E-06	2.83E-05	3.40E-08
3661	421304.8	3734568	1.05E-04	4.82E-04	1.05E-06	1.45E-05	6.59E-05	1.57E-07	8.87E-06	3.03E-05	3.64E-08
3662	421285.2	3734614	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.59E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
3663	421281.3	3734623	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
3664	421277.4	3734632	1.52E-04	6.97E-04	1.52E-06	2.09E-05	9.52E-05	2.27E-07	1.28E-05	4.38E-05	5.26E-08
3665	421273.5	3734641	1.60E-04	7.31E-04	1.60E-06	2.19E-05	9.99E-05	2.38E-07	1.34E-05	4.59E-05	5.52E-08
3666	421269.5	3734650	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
3667	421265.6	3734659	1.74E-04	7.95E-04	1.74E-06	2.38E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3668	421261.7	3734668	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
3669	421257.8	3734677	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.47E-08
3670	421253.9	3734686	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.88E-07	1.63E-05	5.57E-05	6.69E-08
3671	421250	3734695	2.00E-04	9.14E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
3672	421246.1	3734704	2.06E-04	9.43E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.73E-05	5.92E-05	7.12E-08
3673	421242.2	3734713	2.12E-04	9.70E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.78E-05	6.09E-05	7.33E-08
3674	421238.2	3734722	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
3675	421234.3	3734731	2.23E-04	1.02E-03	2.23E-06	3.06E-05	1.40E-04	3.33E-07	1.88E-05	6.42E-05	7.72E-08
3676	421230.4	3734740	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.58E-05	7.91E-08
3677	421226.5	3734749	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
3678	421222.6	3734758	2.41E-04	1.10E-03	2.40E-06	3.30E-05	1.50E-04	3.58E-07	2.02E-05	6.91E-05	8.31E-08
3679	421218.7	3734767	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.65E-07	2.06E-05	7.04E-05	8.46E-08
3680	421214.8	3734776	2.50E-04	1.14E-03	2.50E-06	3.43E-05	1.56E-04	3.72E-07	2.10E-05	7.19E-05	8.65E-08
3681	421210.8	3734785	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.59E-04	3.80E-07	2.15E-05	7.33E-05	8.81E-08
3682	421206.9	3734794	2.59E-04	1.19E-03	2.59E-06	3.55E-05	1.62E-04	3.86E-07	2.18E-05	7.45E-05	8.96E-08
3683	421195.2	3734821	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.24E-05	7.67E-05	9.22E-08
3684	421191.3	3734830	2.68E-04	1.23E-03	2.68E-06	3.67E-05	1.68E-04	3.99E-07	2.25E-05	7.70E-05	9.26E-08
3685	421187.4	3734839	2.69E-04	1.23E-03	2.68E-06	3.68E-05	1.68E-04	4.00E-07	2.26E-05	7.72E-05	9.28E-08
3686	421183.5	3734848	2.68E-04	1.23E-03	2.68E-06	3.68E-05	1.68E-04	4.00E-07	2.26E-05	7.71E-05	9.28E-08
3687	421179.5	3734857	2.68E-04	1.23E-03	2.68E-06	3.67E-05	1.68E-04	3.99E-07	2.25E-05	7.70E-05	9.26E-08
3688	421175.6	3734866	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.98E-07	2.25E-05	7.68E-05	9.24E-08
3689	421171.7	3734875	2.66E-04	1.22E-03	2.66E-06	3.65E-05	1.66E-04	3.96E-07	2.24E-05	7.65E-05	9.20E-08
3690	421167.8	3734884	2.65E-04	1.21E-03	2.65E-06	3.64E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.17E-08
3691	421163.9	3734893	2.64E-04	1.21E-03	2.64E-06	3.63E-05	1.65E-04	3.94E-07	2.22E-05	7.60E-05	9.14E-08
3692	421160	3734902	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
3693	421156.1	3734911	2.62E-04	1.20E-03	2.62E-06	3.59E-05	1.64E-04	3.90E-07	2.21E-05	7.53E-05	9.06E-08
3694	421152.1	3734920	2.61E-04	1.20E-03	2.61E-06	3.58E-05	1.63E-04	3.89E-07	2.20E-05	7.51E-05	9.03E-08
3695	421148.2	3734930	2.61E-04	1.19E-03	2.60E-06	3.57E-05	1.63E-04	3.88E-07	2.19E-05	7.49E-05	9.01E-08
3696	421144.3	3734939	2.60E-04	1.19E-03	2.60E-06	3.56E-05	1.62E-04	3.87E-07	2.19E-05	7.46E-05	8.98E-08
3697	421131.3	3734951	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
3698	421122.3	3734955	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.00E-07	2.26E-05	7.73E-05	9.30E-08
3699	421086	3734970	2.84E-04	1.30E-03	2.84E-06	3.90E-05	1.78E-04	4.23E-07	2.39E-05	8.17E-05	9.83E-08
3700	421076.9	3734974	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.24E-05	9.91E-08
3701	421067.8	3734978	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.81E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3702	421058.8	3734982	2.90E-04	1.33E-03	2.90E-06	3.97E-05	1.81E-04	4.32E-07	2.44E-05	8.33E-05	1.00E-07
3703	421049.7	3734986	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
3704	421040.6	3734989	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.81E-04	4.32E-07	2.44E-05	8.34E-05	1.00E-07
3705	421031.5	3734993	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.81E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3706	421022.5	3734997	2.87E-04	1.31E-03	2.86E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.23E-05	9.90E-08
3707	420995.2	3735008	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.10E-07	2.32E-05	7.91E-05	9.51E-08
3708	420986.2	3735012	2.70E-04	1.23E-03	2.70E-06	3.70E-05	1.69E-04	4.02E-07	2.27E-05	7.75E-05	9.32E-08
3709	420977.1	3735016	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.58E-05	9.11E-08
3710	420968	3735020	2.57E-04	1.17E-03	2.57E-06	3.52E-05	1.61E-04	3.82E-07	2.16E-05	7.38E-05	8.87E-08
3711	420913.6	3735043	2.04E-04	9.33E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.86E-05	7.05E-08
3712	420904.5	3735046	1.94E-04	8.88E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.58E-05	6.71E-08
3713	420895.4	3735050	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08

3714	420886.4	3735054	1.74E-04	7.96E-04	1.74E-06	2.39E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3715	420877.3	3735058	1.64E-04	7.50E-04	1.64E-06	2.25E-05	1.03E-04	2.44E-07	1.38E-05	4.71E-05	5.67E-08
3716	420868.2	3735062	1.54E-04	7.05E-04	1.54E-06	2.11E-05	9.64E-05	2.30E-07	1.30E-05	4.43E-05	5.33E-08
3717	420859.2	3735065	1.44E-04	6.60E-04	1.44E-06	1.98E-05	9.02E-05	2.15E-07	1.21E-05	4.15E-05	4.99E-08
3718	420850.1	3735069	1.35E-04	6.15E-04	1.35E-06	1.85E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
3719	420841	3735073	1.25E-04	5.72E-04	1.25E-06	1.72E-05	7.82E-05	1.86E-07	1.05E-05	3.60E-05	4.32E-08
3720	420831.9	3735077	1.16E-04	5.33E-04	1.16E-06	1.60E-05	7.28E-05	1.73E-07	9.80E-06	3.35E-05	4.03E-08
3721	421313.1	3734530	8.74E-05	3.99E-04	8.73E-07	1.20E-05	5.46E-05	1.30E-07	7.35E-06	2.51E-05	3.02E-08
3722	421313.4	3734520	8.34E-05	3.81E-04	8.34E-07	1.14E-05	5.21E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
3723	421344.7	3734570	8.86E-05	4.05E-04	8.86E-07	1.21E-05	5.54E-05	1.32E-07	7.46E-06	2.55E-05	3.06E-08
3724	421340.8	3734579	9.28E-05	4.24E-04	9.28E-07	1.27E-05	5.80E-05	1.38E-07	7.81E-06	2.67E-05	3.21E-08
3725	421336.9	3734588	9.77E-05	4.47E-04	9.76E-07	1.34E-05	6.11E-05	1.45E-07	8.22E-06	2.81E-05	3.38E-08
3726	421333	3734597	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
3727	421329.1	3734606	1.08E-04	4.93E-04	1.08E-06	1.48E-05	6.74E-05	1.60E-07	9.07E-06	3.10E-05	3.72E-08
3728	421325.2	3734615	1.13E-04	5.17E-04	1.13E-06	1.55E-05	7.08E-05	1.68E-07	9.52E-06	3.25E-05	3.91E-08
3729	421321.2	3734624	1.19E-04	5.44E-04	1.19E-06	1.63E-05	7.44E-05	1.77E-07	1.00E-05	3.42E-05	4.11E-08
3730	421317.3	3734633	1.25E-04	5.71E-04	1.25E-06	1.71E-05	7.81E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
3731	421313.4	3734642	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.21E-05	1.95E-07	1.10E-05	3.77E-05	4.54E-08
3732	421309.5	3734651	1.38E-04	6.29E-04	1.37E-06	1.89E-05	8.60E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
3733	421305.6	3734660	1.44E-04	6.58E-04	1.44E-06	1.97E-05	8.99E-05	2.14E-07	1.21E-05	4.13E-05	4.97E-08
3734	421301.7	3734669	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.19E-08
3735	421278.2	3734723	1.83E-04	8.37E-04	1.83E-06	2.51E-05	1.14E-04	2.73E-07	1.54E-05	5.26E-05	6.33E-08
3736	421274.3	3734732	1.88E-04	8.60E-04	1.88E-06	2.58E-05	1.18E-04	2.80E-07	1.58E-05	5.40E-05	6.50E-08
3737	421270.3	3734741	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.21E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
3738	421266.4	3734750	1.97E-04	9.02E-04	1.97E-06	2.71E-05	1.23E-04	2.94E-07	1.66E-05	5.67E-05	6.82E-08
3739	421262.5	3734759	2.02E-04	9.23E-04	2.02E-06	2.77E-05	1.26E-04	3.00E-07	1.70E-05	5.80E-05	6.97E-08
3740	421258.6	3734768	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.73E-05	5.89E-05	7.09E-08
3741	421254.7	3734777	2.09E-04	9.57E-04	2.09E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.02E-05	7.24E-08
3742	421250.8	3734786	2.13E-04	9.76E-04	2.13E-06	2.92E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.37E-08
3743	421246.8	3734795	2.17E-04	9.91E-04	2.17E-06	2.97E-05	1.36E-04	3.23E-07	1.82E-05	6.23E-05	7.49E-08
3744	421235.1	3734822	2.25E-04	1.03E-03	2.25E-06	3.08E-05	1.41E-04	3.35E-07	1.89E-05	6.47E-05	7.78E-08
3745	421231.2	3734831	2.27E-04	1.04E-03	2.27E-06	3.11E-05	1.42E-04	3.38E-07	1.91E-05	6.53E-05	7.85E-08
3746	421227.3	3734841	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.59E-05	7.92E-08
3747	421223.3	3734850	2.31E-04	1.06E-03	2.31E-06	3.16E-05	1.44E-04	3.44E-07	1.94E-05	6.63E-05	7.98E-08
3748	421219.4	3734859	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
3749	421215.5	3734868	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.03E-08
3750	421211.6	3734877	2.32E-04	1.06E-03	2.32E-06	3.19E-05	1.45E-04	3.46E-07	1.95E-05	6.68E-05	8.03E-08
3751	421207.7	3734886	2.33E-04	1.06E-03	2.32E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
3752	421203.8	3734895	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.69E-05	8.04E-08
3753	421199.8	3734904	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
3754	421195.9	3734913	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.03E-08
3755	421192	3734922	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
3756	421188.1	3734931	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
3757	421184.2	3734940	2.30E-04	1.05E-03	2.30E-06	3.16E-05	1.44E-04	3.43E-07	1.94E-05	6.62E-05	7.96E-08
3758	421180.3	3734949	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.60E-05	7.94E-08
3759	421176.4	3734958	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.92E-05	6.57E-05	7.91E-08
3760	421172.4	3734967	2.28E-04	1.04E-03	2.27E-06	3.12E-05	1.42E-04	3.39E-07	1.91E-05	6.54E-05	7.87E-08
3761	421159.4	3734980	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.44E-04	3.44E-07	1.94E-05	6.64E-05	7.99E-08
3762	421150.4	3734984	2.35E-04	1.08E-03	2.35E-06	3.23E-05	1.47E-04	3.50E-07	1.98E-05	6.76E-05	8.13E-08
3763	421141.3	3734987	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.87E-05	8.27E-08
3764	421132.2	3734991	2.43E-04	1.11E-03	2.43E-06	3.33E-05	1.52E-04	3.61E-07	2.04E-05	6.97E-05	8.39E-08
3765	421123.1	3734995	2.46E-04	1.12E-03	2.46E-06	3.37E-05	1.54E-04	3.66E-07	2.07E-05	7.06E-05	8.50E-08
3766	421086.8	3735010	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.28E-05	8.75E-08
3767	421077.7	3735014	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.13E-05	7.29E-05	8.76E-08
3768	421068.6	3735018	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.28E-05	8.75E-08
3769	421059.6	3735022	2.52E-04	1.15E-03	2.52E-06	3.45E-05	1.58E-04	3.75E-07	2.12E-05	7.24E-05	8.71E-08
3770	421014.2	3735041	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.29E-08
3771	421005.1	3735045	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.47E-04	3.51E-07	1.98E-05	6.77E-05	8.15E-08
3772	420996	3735048	2.31E-04	1.06E-03	2.31E-06	3.16E-05	1.44E-04	3.44E-07	1.94E-05	6.63E-05	7.98E-08

3773	420986.9	3735052	2.25E-04	1.03E-03	2.25E-06	3.09E-05	1.41E-04	3.35E-07	1.90E-05	6.47E-05	7.79E-08
3774	420977.9	3735056	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.30E-05	7.57E-08
3775	420968.8	3735060	2.12E-04	9.71E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.79E-05	6.10E-05	7.34E-08
3776	420959.7	3735064	2.05E-04	9.39E-04	2.05E-06	2.81E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.09E-08
3777	420950.6	3735067	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.85E-08
3778	420941.5	3735071	1.91E-04	8.72E-04	1.91E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.48E-05	6.59E-08
3779	420932.5	3735075	1.83E-04	8.36E-04	1.83E-06	2.51E-05	1.14E-04	2.72E-07	1.54E-05	5.26E-05	6.32E-08
3780	420923.4	3735079	1.75E-04	7.99E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.02E-05	6.04E-08
3781	420914.3	3735083	1.66E-04	7.61E-04	1.66E-06	2.28E-05	1.04E-04	2.48E-07	1.40E-05	4.78E-05	5.75E-08
3782	420905.2	3735086	1.58E-04	7.22E-04	1.58E-06	2.17E-05	9.88E-05	2.35E-07	1.33E-05	4.54E-05	5.46E-08
3783	420896.1	3735090	1.50E-04	6.84E-04	1.50E-06	2.05E-05	9.35E-05	2.23E-07	1.26E-05	4.30E-05	5.17E-08
3784	420887.1	3735094	1.41E-04	6.47E-04	1.41E-06	1.94E-05	8.84E-05	2.11E-07	1.19E-05	4.06E-05	4.89E-08
3785	420878	3735098	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.60E-08
3786	420868.9	3735102	1.25E-04	5.72E-04	1.25E-06	1.71E-05	7.82E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
3787	420859.8	3735105	1.17E-04	5.34E-04	1.17E-06	1.60E-05	7.31E-05	1.74E-07	9.83E-06	3.36E-05	4.04E-08
3788	420850.7	3735109	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.82E-05	1.62E-07	9.18E-06	3.13E-05	3.77E-08
3789	420841.7	3735113	1.02E-04	4.65E-04	1.02E-06	1.39E-05	6.36E-05	1.51E-07	8.55E-06	2.92E-05	3.51E-08
3790	420832.6	3735117	9.49E-05	4.34E-04	9.48E-07	1.30E-05	5.93E-05	1.41E-07	7.98E-06	2.73E-05	3.28E-08
3791	420823.5	3735121	8.85E-05	4.04E-04	8.84E-07	1.21E-05	5.53E-05	1.32E-07	7.44E-06	2.54E-05	3.06E-08
3792	421369	3734607	9.15E-05	4.18E-04	9.15E-07	1.25E-05	5.72E-05	1.36E-07	7.70E-06	2.63E-05	3.16E-08
3793	421365.1	3734616	9.60E-05	4.39E-04	9.60E-07	1.32E-05	6.00E-05	1.43E-07	8.08E-06	2.76E-05	3.32E-08
3794	421361.2	3734625	1.01E-04	4.61E-04	1.01E-06	1.38E-05	6.30E-05	1.50E-07	8.48E-06	2.90E-05	3.48E-08
3795	421357.3	3734634	1.06E-04	4.83E-04	1.06E-06	1.45E-05	6.60E-05	1.57E-07	8.88E-06	3.03E-05	3.65E-08
3796	421353.4	3734643	1.10E-04	5.05E-04	1.10E-06	1.51E-05	6.91E-05	1.64E-07	9.29E-06	3.17E-05	3.82E-08
3797	421349.5	3734652	1.15E-04	5.27E-04	1.15E-06	1.58E-05	7.21E-05	1.72E-07	9.70E-06	3.31E-05	3.98E-08
3798	421345.5	3734661	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.52E-05	1.79E-07	1.01E-05	3.45E-05	4.15E-08
3799	421341.6	3734670	1.25E-04	5.73E-04	1.25E-06	1.72E-05	7.83E-05	1.86E-07	1.05E-05	3.60E-05	4.33E-08
3800	421337.7	3734679	1.30E-04	5.97E-04	1.30E-06	1.79E-05	8.16E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
3801	421333.8	3734688	1.36E-04	6.20E-04	1.36E-06	1.86E-05	8.48E-05	2.02E-07	1.14E-05	3.90E-05	4.69E-08
3802	421329.9	3734697	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.80E-05	2.10E-07	1.18E-05	4.04E-05	4.86E-08
3803	421325.9	3734706	1.45E-04	6.65E-04	1.45E-06	1.99E-05	9.10E-05	2.17E-07	1.22E-05	4.18E-05	5.03E-08
3804	421322	3734715	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
3805	421318.1	3734724	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.66E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
3806	421314.2	3734733	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.93E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
3807	421310.3	3734742	1.63E-04	7.45E-04	1.63E-06	2.23E-05	1.02E-04	2.43E-07	1.37E-05	4.68E-05	5.63E-08
3808	421306.4	3734751	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
3809	421302.4	3734760	1.71E-04	7.80E-04	1.70E-06	2.34E-05	1.07E-04	2.54E-07	1.43E-05	4.90E-05	5.89E-08
3810	421275	3734824	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
3811	421271.1	3734833	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
3812	421267.2	3734842	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.84E-08
3813	421263.2	3734851	1.99E-04	9.12E-04	1.99E-06	2.73E-05	1.25E-04	2.97E-07	1.68E-05	5.73E-05	6.89E-08
3814	421259.3	3734860	2.01E-04	9.18E-04	2.01E-06	2.75E-05	1.26E-04	2.99E-07	1.69E-05	5.77E-05	6.94E-08
3815	421255.4	3734869	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
3816	421251.5	3734878	2.03E-04	9.28E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
3817	421247.6	3734887	2.04E-04	9.31E-04	2.04E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.85E-05	7.04E-08
3818	421243.7	3734896	2.04E-04	9.34E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.87E-05	7.06E-08
3819	421239.7	3734905	2.04E-04	9.35E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.88E-05	7.07E-08
3820	421235.8	3734914	2.05E-04	9.36E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.88E-05	7.07E-08
3821	421231.9	3734923	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3822	421228	3734932	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3823	421224.1	3734941	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3824	421220.1	3734950	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.73E-05	5.89E-05	7.09E-08
3825	421216.2	3734959	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3826	421212.3	3734968	2.05E-04	9.36E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.88E-05	7.07E-08
3827	421208.4	3734977	2.04E-04	9.34E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.87E-05	7.06E-08
3828	421204.5	3734986	2.04E-04	9.31E-04	2.04E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.85E-05	7.04E-08
3829	421200.6	3734995	2.03E-04	9.27E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
3830	421187.5	3735008	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
3831	421178.5	3735012	2.09E-04	9.54E-04	2.09E-06	2.86E-05	1.31E-04	3.11E-07	1.76E-05	6.00E-05	7.21E-08

3832	421169.4	3735016	2.12E-04	9.69E-04	2.12E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.09E-05	7.32E-08
3833	421160.3	3735020	2.15E-04	9.83E-04	2.15E-06	2.95E-05	1.34E-04	3.20E-07	1.81E-05	6.18E-05	7.43E-08
3834	421151.2	3735024	2.18E-04	9.95E-04	2.18E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.52E-08
3835	421142.1	3735027	2.20E-04	1.01E-03	2.20E-06	3.02E-05	1.38E-04	3.28E-07	1.85E-05	6.33E-05	7.61E-08
3836	421133	3735031	2.22E-04	1.02E-03	2.22E-06	3.04E-05	1.39E-04	3.31E-07	1.87E-05	6.38E-05	7.67E-08
3837	421124	3735035	2.23E-04	1.02E-03	2.23E-06	3.06E-05	1.40E-04	3.33E-07	1.88E-05	6.42E-05	7.72E-08
3838	421087.6	3735050	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.73E-08
3839	421078.5	3735054	2.23E-04	1.02E-03	2.23E-06	3.05E-05	1.39E-04	3.32E-07	1.87E-05	6.40E-05	7.70E-08
3840	421069.4	3735058	2.21E-04	1.01E-03	2.21E-06	3.04E-05	1.38E-04	3.30E-07	1.86E-05	6.36E-05	7.65E-08
3841	421060.4	3735062	2.20E-04	1.01E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.60E-08
3842	421051.3	3735065	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
3843	421042.2	3735069	2.16E-04	9.86E-04	2.16E-06	2.96E-05	1.35E-04	3.21E-07	1.81E-05	6.20E-05	7.45E-08
3844	421033.1	3735073	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
3845	421024	3735077	2.10E-04	9.59E-04	2.10E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.03E-05	7.25E-08
3846	421014.9	3735081	2.06E-04	9.41E-04	2.06E-06	2.82E-05	1.29E-04	3.06E-07	1.73E-05	5.91E-05	7.11E-08
3847	421005.8	3735084	2.01E-04	9.20E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
3848	420996.8	3735088	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
3849	420987.7	3735092	1.91E-04	8.72E-04	1.91E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.48E-05	6.59E-08
3850	420978.6	3735096	1.85E-04	8.45E-04	1.85E-06	2.53E-05	1.16E-04	2.75E-07	1.56E-05	5.31E-05	6.39E-08
3851	420969.5	3735100	1.79E-04	8.17E-04	1.79E-06	2.45E-05	1.12E-04	2.66E-07	1.50E-05	5.13E-05	6.17E-08
3852	420960.4	3735103	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.95E-05	5.95E-08
3853	420951.3	3735107	1.66E-04	7.58E-04	1.66E-06	2.27E-05	1.04E-04	2.47E-07	1.39E-05	4.76E-05	5.73E-08
3854	420942.2	3735111	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
3855	420933.2	3735115	1.52E-04	6.97E-04	1.52E-06	2.09E-05	9.53E-05	2.27E-07	1.28E-05	4.38E-05	5.27E-08
3856	420924.1	3735119	1.45E-04	6.65E-04	1.45E-06	1.99E-05	9.09E-05	2.16E-07	1.22E-05	4.18E-05	5.02E-08
3857	420915	3735123	1.38E-04	6.32E-04	1.38E-06	1.89E-05	8.64E-05	2.06E-07	1.16E-05	3.97E-05	4.78E-08
3858	420905.9	3735126	1.31E-04	5.99E-04	1.31E-06	1.80E-05	8.20E-05	1.95E-07	1.10E-05	3.77E-05	4.53E-08
3859	420896.8	3735130	1.24E-04	5.67E-04	1.24E-06	1.70E-05	7.75E-05	1.85E-07	1.04E-05	3.56E-05	4.28E-08
3860	420887.7	3735134	1.17E-04	5.33E-04	1.17E-06	1.60E-05	7.29E-05	1.74E-07	9.81E-06	3.35E-05	4.03E-08
3861	420878.7	3735138	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.15E-05	3.78E-08
3862	420869.6	3735142	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.41E-05	1.53E-07	8.62E-06	2.94E-05	3.54E-08
3863	420860.5	3735145	9.59E-05	4.38E-04	9.58E-07	1.31E-05	5.99E-05	1.43E-07	8.06E-06	2.75E-05	3.31E-08
3864	420851.4	3735149	8.95E-05	4.09E-04	8.94E-07	1.23E-05	5.59E-05	1.33E-07	7.53E-06	2.57E-05	3.09E-08
3865	420842.3	3735153	8.35E-05	3.82E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
3866	420787.8	3735176	5.56E-05	2.54E-04	5.56E-07	7.62E-06	3.48E-05	8.28E-08	4.68E-06	1.60E-05	1.92E-08
3867	420778.7	3735180	5.21E-05	2.38E-04	5.21E-07	7.14E-06	3.26E-05	7.76E-08	4.38E-06	1.50E-05	1.80E-08
3868	420769.6	3735183	4.86E-05	2.22E-04	4.86E-07	6.67E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
3869	420760.5	3735187	4.55E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.77E-08	3.82E-06	1.31E-05	1.57E-08
3870	420751.5	3735191	4.26E-05	1.95E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
3871	421393.1	3734533	6.39E-05	2.92E-04	6.39E-07	8.76E-06	4.00E-05	9.52E-08	5.38E-06	1.84E-05	2.21E-08
3872	421393.4	3734523	6.15E-05	2.81E-04	6.14E-07	8.42E-06	3.84E-05	9.15E-08	5.17E-06	1.77E-05	2.12E-08
3873	421424.7	3734572	6.58E-05	3.01E-04	6.57E-07	9.02E-06	4.11E-05	9.79E-08	5.53E-06	1.89E-05	2.27E-08
3874	421420.8	3734581	6.88E-05	3.15E-04	6.88E-07	9.43E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
3875	421416.9	3734590	7.21E-05	3.30E-04	7.21E-07	9.88E-06	4.51E-05	1.07E-07	6.07E-06	2.07E-05	2.49E-08
3876	421412.9	3734599	7.55E-05	3.45E-04	7.55E-07	1.04E-05	4.72E-05	1.12E-07	6.36E-06	2.17E-05	2.61E-08
3877	421409	3734608	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.65E-06	2.27E-05	2.73E-08
3878	421405.1	3734617	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
3879	421401.2	3734626	8.64E-05	3.95E-04	8.64E-07	1.18E-05	5.40E-05	1.29E-07	7.27E-06	2.48E-05	2.99E-08
3880	421397.3	3734635	9.03E-05	4.13E-04	9.03E-07	1.24E-05	5.65E-05	1.34E-07	7.60E-06	2.60E-05	3.12E-08
3881	421393.3	3734644	9.43E-05	4.31E-04	9.42E-07	1.29E-05	5.89E-05	1.40E-07	7.93E-06	2.71E-05	3.26E-08
3882	421365.9	3734707	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
3883	421362	3734716	1.27E-04	5.82E-04	1.27E-06	1.74E-05	7.96E-05	1.89E-07	1.07E-05	3.66E-05	4.40E-08
3884	421358.1	3734725	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.20E-05	1.95E-07	1.10E-05	3.77E-05	4.53E-08
3885	421354.1	3734735	1.35E-04	6.18E-04	1.35E-06	1.85E-05	8.45E-05	2.01E-07	1.14E-05	3.88E-05	4.67E-08
3886	421350.2	3734744	1.39E-04	6.35E-04	1.39E-06	1.90E-05	8.69E-05	2.07E-07	1.17E-05	3.99E-05	4.80E-08
3887	421346.3	3734753	1.43E-04	6.52E-04	1.43E-06	1.95E-05	8.92E-05	2.12E-07	1.20E-05	4.10E-05	4.93E-08
3888	421342.4	3734762	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.05E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
3889	421338.4	3734771	1.48E-04	6.79E-04	1.48E-06	2.03E-05	9.28E-05	2.21E-07	1.25E-05	4.27E-05	5.13E-08
3890	421334.5	3734780	1.52E-04	6.95E-04	1.52E-06	2.08E-05	9.51E-05	2.26E-07	1.28E-05	4.37E-05	5.25E-08

3891	421330.6	3734789	1.56E-04	7.11E-04	1.55E-06	2.13E-05	9.73E-05	2.32E-07	1.31E-05	4.47E-05	5.38E-08
3892	421326.7	3734798	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.92E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
3893	421314.9	3734825	1.67E-04	7.64E-04	1.67E-06	2.29E-05	1.04E-04	2.49E-07	1.41E-05	4.80E-05	5.77E-08
3894	421311	3734834	1.70E-04	7.76E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.87E-05	5.86E-08
3895	421307.1	3734843	1.72E-04	7.86E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
3896	421303.2	3734852	1.74E-04	7.95E-04	1.74E-06	2.38E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3897	421299.2	3734861	1.76E-04	8.03E-04	1.75E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.04E-05	6.07E-08
3898	421295.3	3734870	1.77E-04	8.08E-04	1.77E-06	2.42E-05	1.11E-04	2.63E-07	1.49E-05	5.08E-05	6.11E-08
3899	421291.4	3734879	1.78E-04	8.12E-04	1.78E-06	2.44E-05	1.11E-04	2.64E-07	1.49E-05	5.10E-05	6.14E-08
3900	421287.5	3734888	1.79E-04	8.19E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.15E-05	6.19E-08
3901	421283.6	3734897	1.80E-04	8.25E-04	1.80E-06	2.47E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
3902	421279.6	3734906	1.81E-04	8.30E-04	1.81E-06	2.49E-05	1.13E-04	2.70E-07	1.53E-05	5.21E-05	6.27E-08
3903	421275.7	3734915	1.82E-04	8.34E-04	1.82E-06	2.50E-05	1.14E-04	2.72E-07	1.53E-05	5.24E-05	6.30E-08
3904	421271.8	3734924	1.83E-04	8.38E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.33E-08
3905	421267.9	3734933	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3906	421264	3734942	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3907	421260	3734952	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.36E-08
3908	421256.1	3734961	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3909	421252.2	3734970	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.73E-07	1.54E-05	5.28E-05	6.35E-08
3910	421248.3	3734979	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3911	421244.3	3734988	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3912	421240.4	3734997	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3913	421236.5	3735006	1.83E-04	8.38E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.33E-08
3914	421232.6	3735015	1.83E-04	8.35E-04	1.83E-06	2.50E-05	1.14E-04	2.72E-07	1.54E-05	5.25E-05	6.31E-08
3915	421228.7	3735024	1.82E-04	8.32E-04	1.82E-06	2.49E-05	1.14E-04	2.71E-07	1.53E-05	5.23E-05	6.28E-08
3916	421215.7	3735037	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.74E-07	1.55E-05	5.30E-05	6.37E-08
3917	421206.6	3735041	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.57E-05	5.38E-05	6.47E-08
3918	421197.5	3735044	1.90E-04	8.68E-04	1.90E-06	2.60E-05	1.19E-04	2.83E-07	1.60E-05	5.45E-05	6.56E-08
3919	421188.4	3735048	1.92E-04	8.78E-04	1.92E-06	2.63E-05	1.20E-04	2.86E-07	1.62E-05	5.52E-05	6.64E-08
3920	421179.3	3735052	1.94E-04	8.88E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.58E-05	6.71E-08
3921	421170.2	3735056	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
3922	421088.4	3735090	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.85E-08
3923	421079.3	3735094	1.97E-04	8.99E-04	1.96E-06	2.69E-05	1.23E-04	2.93E-07	1.65E-05	5.65E-05	6.79E-08
3924	421070.2	3735098	1.95E-04	8.91E-04	1.95E-06	2.67E-05	1.22E-04	2.90E-07	1.64E-05	5.60E-05	6.73E-08
3925	421061.1	3735102	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.20E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
3926	421052	3735105	1.90E-04	8.70E-04	1.90E-06	2.61E-05	1.19E-04	2.83E-07	1.60E-05	5.47E-05	6.58E-08
3927	421042.9	3735109	1.88E-04	8.57E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.39E-05	6.48E-08
3928	421033.8	3735113	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.74E-07	1.55E-05	5.30E-05	6.37E-08
3929	421024.8	3735117	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.25E-08
3930	421015.7	3735121	1.77E-04	8.08E-04	1.77E-06	2.42E-05	1.10E-04	2.63E-07	1.49E-05	5.08E-05	6.11E-08
3931	421006.6	3735124	1.72E-04	7.86E-04	1.72E-06	2.36E-05	1.07E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
3932	420997.5	3735128	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.79E-05	5.77E-08
3933	420988.4	3735132	1.62E-04	7.39E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.64E-05	5.58E-08
3934	420979.3	3735136	1.56E-04	7.14E-04	1.56E-06	2.14E-05	9.76E-05	2.32E-07	1.31E-05	4.49E-05	5.40E-08
3935	420970.2	3735140	1.51E-04	6.89E-04	1.51E-06	2.07E-05	9.42E-05	2.24E-07	1.27E-05	4.33E-05	5.21E-08
3936	420961.1	3735143	1.45E-04	6.64E-04	1.45E-06	1.99E-05	9.08E-05	2.16E-07	1.22E-05	4.17E-05	5.02E-08
3937	420952	3735147	1.40E-04	6.38E-04	1.39E-06	1.91E-05	8.72E-05	2.08E-07	1.17E-05	4.01E-05	4.82E-08
3938	420942.9	3735151	1.34E-04	6.11E-04	1.34E-06	1.83E-05	8.36E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
3939	420933.9	3735155	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
3940	420924.8	3735159	1.22E-04	5.56E-04	1.21E-06	1.67E-05	7.60E-05	1.81E-07	1.02E-05	3.49E-05	4.20E-08
3941	420915.7	3735162	1.15E-04	5.28E-04	1.15E-06	1.58E-05	7.22E-05	1.72E-07	9.71E-06	3.32E-05	3.99E-08
3942	420906.6	3735166	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.14E-05	3.78E-08
3943	420897.5	3735170	1.03E-04	4.73E-04	1.03E-06	1.42E-05	6.47E-05	1.54E-07	8.70E-06	2.97E-05	3.57E-08
3944	420888.4	3735174	9.72E-05	4.44E-04	9.71E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
3945	420833.9	3735197	6.57E-05	3.00E-04	6.56E-07	9.00E-06	4.11E-05	9.78E-08	5.53E-06	1.89E-05	2.27E-08
3946	420824.8	3735201	6.14E-05	2.81E-04	6.14E-07	8.42E-06	3.84E-05	9.14E-08	5.17E-06	1.76E-05	2.12E-08
3947	420815.7	3735204	5.74E-05	2.62E-04	5.73E-07	7.86E-06	3.59E-05	8.54E-08	4.83E-06	1.65E-05	1.98E-08
3948	420806.6	3735208	5.36E-05	2.45E-04	5.36E-07	7.35E-06	3.35E-05	7.98E-08	4.51E-06	1.54E-05	1.85E-08
3949	420797.5	3735212	5.02E-05	2.29E-04	5.02E-07	6.88E-06	3.14E-05	7.47E-08	4.22E-06	1.44E-05	1.73E-08

3950	420788.4	3735216	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
3951	420779.3	3735220	4.40E-05	2.01E-04	4.40E-07	6.03E-06	2.75E-05	6.55E-08	3.70E-06	1.26E-05	1.52E-08
3952	420770.2	3735223	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.48E-06	1.19E-05	1.43E-08
3953	420761.1	3735227	3.88E-05	1.77E-04	3.88E-07	5.32E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
3954	420752	3735231	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.28E-05	5.42E-08	3.06E-06	1.05E-05	1.26E-08
3955	421433.1	3734534	5.53E-05	2.53E-04	5.52E-07	7.58E-06	3.46E-05	8.23E-08	4.65E-06	1.59E-05	1.91E-08
3956	421433.3	3734524	5.29E-05	2.42E-04	5.29E-07	7.26E-06	3.31E-05	7.88E-08	4.45E-06	1.52E-05	1.83E-08
3957	420743.3	3734468	2.48E-02	1.13E-01	2.47E-04	3.39E-03	1.55E-02	3.69E-05	2.08E-03	7.12E-03	8.56E-06
3958	420743.3	3734459	2.09E-02	9.54E-02	2.08E-04	2.86E-03	1.30E-02	3.10E-05	1.75E-03	5.99E-03	7.21E-06
3959	420743.2	3734449	1.60E-02	7.32E-02	1.60E-04	2.19E-03	1.00E-02	2.38E-05	1.35E-03	4.60E-03	5.53E-06
3960	420743.1	3734440	1.10E-02	5.05E-02	1.10E-04	1.51E-03	6.90E-03	1.64E-05	9.29E-04	3.17E-03	3.82E-06
3961	420743.1	3734431	6.94E-03	3.17E-02	6.94E-05	9.52E-04	4.34E-03	1.03E-05	5.84E-04	2.00E-03	2.40E-06
3962	420743	3734421	4.38E-03	2.00E-02	4.38E-05	6.00E-04	2.74E-03	6.52E-06	3.69E-04	1.26E-03	1.51E-06
3963	420742.9	3734412	2.95E-03	1.35E-02	2.95E-05	4.04E-04	1.84E-03	4.39E-06	2.48E-04	8.47E-04	1.02E-06
3964	420742.9	3734403	2.11E-03	9.63E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.77E-04	6.05E-04	7.28E-07
3965	420753.3	3734468	1.68E-02	7.70E-02	1.68E-04	2.31E-03	1.05E-02	2.51E-05	1.42E-03	4.84E-03	5.82E-06
3966	420753.3	3734458	1.40E-02	6.38E-02	1.39E-04	1.91E-03	8.72E-03	2.08E-05	1.17E-03	4.01E-03	4.82E-06
3967	420753.2	3734449	1.08E-02	4.92E-02	1.08E-04	1.48E-03	6.73E-03	1.60E-05	9.06E-04	3.09E-03	3.72E-06
3968	420753.1	3734440	7.72E-03	3.53E-02	7.71E-05	1.06E-03	4.83E-03	1.15E-05	6.49E-04	2.22E-03	2.67E-06
3969	420753.1	3734431	5.23E-03	2.39E-02	5.23E-05	7.17E-04	3.27E-03	7.79E-06	4.40E-04	1.50E-03	1.81E-06
3970	420753	3734421	3.55E-03	1.62E-02	3.55E-05	4.87E-04	2.22E-03	5.29E-06	2.99E-04	1.02E-03	1.23E-06
3971	420752.9	3734412	2.51E-03	1.15E-02	2.50E-05	3.43E-04	1.57E-03	3.73E-06	2.11E-04	7.20E-04	8.66E-07
3972	420752.9	3734403	1.85E-03	8.47E-03	1.85E-05	2.54E-04	1.16E-03	2.76E-06	1.56E-04	5.32E-04	6.40E-07
3973	420752.8	3734394	1.41E-03	6.46E-03	1.41E-05	1.94E-04	8.83E-04	2.10E-06	1.19E-04	4.06E-04	4.88E-07
3974	420763.1	3734440	5.68E-03	2.60E-02	5.68E-05	7.79E-04	3.55E-03	8.46E-06	4.78E-04	1.63E-03	1.96E-06
3975	420763.1	3734431	4.07E-03	1.86E-02	4.07E-05	5.58E-04	2.54E-03	6.06E-06	3.42E-04	1.17E-03	1.41E-06
3976	420763	3734421	2.91E-03	1.33E-02	2.91E-05	3.99E-04	1.82E-03	4.34E-06	2.45E-04	8.37E-04	1.01E-06
3977	420762.9	3734412	2.14E-03	9.77E-03	2.14E-05	2.93E-04	1.34E-03	3.18E-06	1.80E-04	6.14E-04	7.38E-07
3978	420762.9	3734403	1.62E-03	7.42E-03	1.62E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.67E-04	5.61E-07
3979	420762.8	3734393	1.27E-03	5.81E-03	1.27E-05	1.74E-04	7.94E-04	1.89E-06	1.07E-04	3.65E-04	4.39E-07
3980	420772.8	3734393	1.14E-03	5.20E-03	1.14E-05	1.56E-04	7.11E-04	1.69E-06	9.57E-05	3.27E-04	3.93E-07
3981	420793.5	3734495	7.53E-03	3.44E-02	7.53E-05	1.03E-03	4.71E-03	1.12E-05	6.34E-04	2.16E-03	2.60E-06
3982	420793.5	3734486	6.71E-03	3.07E-02	6.70E-05	9.19E-04	4.19E-03	9.98E-06	5.64E-04	1.93E-03	2.32E-06
3983	420803.5	3734495	5.95E-03	2.72E-02	5.94E-05	8.15E-04	3.72E-03	8.85E-06	5.00E-04	1.71E-03	2.05E-06
3984	420803.5	3734486	5.27E-03	2.41E-02	5.27E-05	7.22E-04	3.29E-03	7.84E-06	4.43E-04	1.51E-03	1.82E-06
3985	420803.4	3734477	4.63E-03	2.12E-02	4.63E-05	6.35E-04	2.90E-03	6.89E-06	3.90E-04	1.33E-03	1.60E-06
3986	420803.3	3734467	3.97E-03	1.82E-02	3.97E-05	5.44E-04	2.48E-03	5.91E-06	3.34E-04	1.14E-03	1.37E-06
3987	420803.3	3734458	3.34E-03	1.53E-02	3.34E-05	4.57E-04	2.09E-03	4.97E-06	2.81E-04	9.59E-04	1.15E-06
3988	420803.2	3734449	2.76E-03	1.26E-02	2.75E-05	3.78E-04	1.72E-03	4.10E-06	2.32E-04	7.92E-04	9.52E-07
3989	420803.1	3734440	2.24E-03	1.02E-02	2.24E-05	3.07E-04	1.40E-03	3.34E-06	1.89E-04	6.44E-04	7.75E-07
3990	420803.1	3734430	1.81E-03	8.27E-03	1.81E-05	2.48E-04	1.13E-03	2.69E-06	1.52E-04	5.19E-04	6.25E-07
3991	420803	3734421	1.46E-03	6.66E-03	1.46E-05	2.00E-04	9.11E-04	2.17E-06	1.23E-04	4.19E-04	5.04E-07
3992	420802.9	3734412	1.19E-03	5.42E-03	1.18E-05	1.62E-04	7.41E-04	1.76E-06	9.97E-05	3.41E-04	4.10E-07
3993	420813.5	3734495	4.75E-03	2.17E-02	4.75E-05	6.51E-04	2.97E-03	7.07E-06	4.00E-04	1.36E-03	1.64E-06
3994	420813.5	3734486	4.22E-03	1.93E-02	4.21E-05	5.78E-04	2.64E-03	6.28E-06	3.55E-04	1.21E-03	1.46E-06
3995	420813.4	3734477	3.72E-03	1.70E-02	3.72E-05	5.10E-04	2.33E-03	5.54E-06	3.13E-04	1.07E-03	1.29E-06
3996	420813.3	3734467	3.21E-03	1.47E-02	3.21E-05	4.41E-04	2.01E-03	4.78E-06	2.70E-04	9.24E-04	1.11E-06
3997	420813.3	3734458	2.72E-03	1.24E-02	2.72E-05	3.73E-04	1.70E-03	4.05E-06	2.29E-04	7.82E-04	9.40E-07
3998	420813.2	3734449	2.27E-03	1.04E-02	2.27E-05	3.11E-04	1.42E-03	3.38E-06	1.91E-04	6.52E-04	7.85E-07
3999	420813.1	3734439	1.87E-03	8.57E-03	1.87E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
4000	420813.1	3734430	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.61E-04	2.29E-06	1.29E-04	4.42E-04	5.31E-07
4001	420813	3734421	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.35E-07
4002	420812.9	3734412	1.04E-03	4.76E-03	1.04E-05	1.43E-04	6.51E-04	1.55E-06	8.76E-05	2.99E-04	3.60E-07
4003	420812.9	3734402	8.70E-04	3.98E-03	8.70E-06	1.19E-04	5.44E-04	1.30E-06	7.32E-05	2.50E-04	3.01E-07
4004	420823.5	3734495	3.89E-03	1.78E-02	3.88E-05	5.33E-04	2.43E-03	5.78E-06	3.27E-04	1.12E-03	1.34E-06
4005	420823.5	3734486	3.45E-03	1.58E-02	3.45E-05	4.73E-04	2.16E-03	5.13E-06	2.90E-04	9.91E-04	1.19E-06
4006	420823.4	3734477	3.04E-03	1.39E-02	3.04E-05	4.16E-04	1.90E-03	4.52E-06	2.56E-04	8.73E-04	1.05E-06
4007	420823.3	3734467	2.64E-03	1.21E-02	2.64E-05	3.62E-04	1.65E-03	3.93E-06	2.22E-04	7.59E-04	9.12E-07
4008	420823.3	3734458	2.26E-03	1.03E-02	2.26E-05	3.09E-04	1.41E-03	3.36E-06	1.90E-04	6.49E-04	7.80E-07

4009	420823.2	3734449	1.90E-03	8.69E-03	1.90E-05	2.61E-04	1.19E-03	2.83E-06	1.60E-04	5.46E-04	6.57E-07
4010	420823.1	3734439	1.59E-03	7.27E-03	1.59E-05	2.18E-04	9.93E-04	2.37E-06	1.34E-04	4.57E-04	5.49E-07
4011	420823.1	3734430	1.32E-03	6.04E-03	1.32E-05	1.81E-04	8.26E-04	1.97E-06	1.11E-04	3.80E-04	4.57E-07
4012	420823	3734421	1.10E-03	5.03E-03	1.10E-05	1.51E-04	6.87E-04	1.64E-06	9.25E-05	3.16E-04	3.80E-07
4013	420822.9	3734412	9.20E-04	4.21E-03	9.19E-06	1.26E-04	5.75E-04	1.37E-06	7.74E-05	2.64E-04	3.18E-07
4014	420822.9	3734402	7.78E-04	3.56E-03	7.77E-06	1.07E-04	4.86E-04	1.16E-06	6.54E-05	2.23E-04	2.69E-07
4015	420833.5	3734495	3.22E-03	1.47E-02	3.22E-05	4.42E-04	2.01E-03	4.80E-06	2.71E-04	9.26E-04	1.11E-06
4016	420833.5	3734486	2.86E-03	1.31E-02	2.86E-05	3.92E-04	1.79E-03	4.26E-06	2.41E-04	8.22E-04	9.88E-07
4017	420833.4	3734476	2.52E-03	1.15E-02	2.52E-05	3.45E-04	1.57E-03	3.75E-06	2.12E-04	7.23E-04	8.70E-07
4018	420833.3	3734467	2.19E-03	1.00E-02	2.19E-05	3.00E-04	1.37E-03	3.26E-06	1.84E-04	6.29E-04	7.56E-07
4019	420833.3	3734458	1.89E-03	8.63E-03	1.89E-05	2.59E-04	1.18E-03	2.81E-06	1.59E-04	5.43E-04	6.53E-07
4020	420833.2	3734449	1.61E-03	7.38E-03	1.61E-05	2.21E-04	1.01E-03	2.40E-06	1.36E-04	4.64E-04	5.58E-07
4021	420833.1	3734439	1.36E-03	6.23E-03	1.36E-05	1.87E-04	8.53E-04	2.03E-06	1.15E-04	3.92E-04	4.71E-07
4022	420833.1	3734430	1.15E-03	5.25E-03	1.15E-05	1.57E-04	7.18E-04	1.71E-06	9.66E-05	3.30E-04	3.97E-07
4023	420833	3734421	9.66E-04	4.42E-03	9.66E-06	1.32E-04	6.04E-04	1.44E-06	8.13E-05	2.78E-04	3.34E-07
4024	420832.9	3734412	8.18E-04	3.74E-03	8.17E-06	1.12E-04	5.11E-04	1.22E-06	6.88E-05	2.35E-04	2.83E-07
4025	420893.5	3734495	1.31E-03	5.98E-03	1.31E-05	1.79E-04	8.18E-04	1.95E-06	1.10E-04	3.76E-04	4.52E-07
4026	420893.5	3734485	1.18E-03	5.41E-03	1.18E-05	1.62E-04	7.40E-04	1.76E-06	9.95E-05	3.40E-04	4.09E-07
4027	420893.4	3734476	1.06E-03	4.85E-03	1.06E-05	1.45E-04	6.63E-04	1.58E-06	8.92E-05	3.05E-04	3.67E-07
4028	420893.3	3734467	9.45E-04	4.32E-03	9.44E-06	1.29E-04	5.91E-04	1.41E-06	7.95E-05	2.71E-04	3.26E-07
4029	420893.1	3734439	6.49E-04	2.97E-03	6.49E-06	8.90E-05	4.06E-04	9.66E-07	5.46E-05	1.86E-04	2.24E-07
4030	420893.1	3734430	5.71E-04	2.61E-03	5.71E-06	7.83E-05	3.57E-04	8.50E-07	4.80E-05	1.64E-04	1.97E-07
4031	420893	3734420	5.04E-04	2.31E-03	5.04E-06	6.91E-05	3.15E-04	7.50E-07	4.24E-05	1.45E-04	1.74E-07
4032	420892.9	3734411	4.47E-04	2.04E-03	4.46E-06	6.12E-05	2.79E-04	6.65E-07	3.76E-05	1.28E-04	1.54E-07
4033	420892.9	3734402	3.98E-04	1.82E-03	3.98E-06	5.45E-05	2.49E-04	5.92E-07	3.35E-05	1.14E-04	1.37E-07
4034	420892.8	3734393	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
4035	420913.5	3734494	1.02E-03	4.67E-03	1.02E-05	1.40E-04	6.39E-04	1.52E-06	8.59E-05	2.94E-04	3.53E-07
4036	420913.5	3734485	9.28E-04	4.24E-03	9.28E-06	1.27E-04	5.80E-04	1.38E-06	7.81E-05	2.67E-04	3.21E-07
4037	420913.4	3734476	8.37E-04	3.83E-03	8.37E-06	1.15E-04	5.23E-04	1.25E-06	7.04E-05	2.41E-04	2.89E-07
4038	420913.3	3734467	7.51E-04	3.43E-03	7.51E-06	1.03E-04	4.70E-04	1.12E-06	6.32E-05	2.16E-04	2.60E-07
4039	420913.1	3734439	5.31E-04	2.43E-03	5.30E-06	7.27E-05	3.32E-04	7.90E-07	4.46E-05	1.52E-04	1.83E-07
4040	420913.1	3734430	4.72E-04	2.16E-03	4.71E-06	6.47E-05	2.95E-04	7.02E-07	3.97E-05	1.36E-04	1.63E-07
4041	420913	3734420	4.21E-04	1.92E-03	4.20E-06	5.77E-05	2.63E-04	6.26E-07	3.54E-05	1.21E-04	1.45E-07
4042	420912.9	3734411	3.76E-04	1.72E-03	3.76E-06	5.16E-05	2.35E-04	5.60E-07	3.17E-05	1.08E-04	1.30E-07
4043	420912.9	3734402	3.38E-04	1.54E-03	3.38E-06	4.63E-05	2.11E-04	5.03E-07	2.84E-05	9.71E-05	1.17E-07
4044	420912.8	3734392	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.76E-05	1.05E-07
4045	420933.5	3734494	8.15E-04	3.73E-03	8.14E-06	1.12E-04	5.09E-04	1.21E-06	6.86E-05	2.34E-04	2.82E-07
4046	420933.5	3734485	7.43E-04	3.40E-03	7.43E-06	1.02E-04	4.65E-04	1.11E-06	6.25E-05	2.14E-04	2.57E-07
4047	420933.4	3734476	6.74E-04	3.08E-03	6.74E-06	9.24E-05	4.21E-04	1.00E-06	5.67E-05	1.94E-04	2.33E-07
4048	420933.3	3734466	6.08E-04	2.78E-03	6.08E-06	8.34E-05	3.80E-04	9.06E-07	5.12E-05	1.75E-04	2.10E-07
4049	420933.1	3734439	4.41E-04	2.01E-03	4.40E-06	6.04E-05	2.75E-04	6.56E-07	3.71E-05	1.27E-04	1.52E-07
4050	420933.1	3734429	3.95E-04	1.81E-03	3.95E-06	5.42E-05	2.47E-04	5.88E-07	3.32E-05	1.14E-04	1.37E-07
4051	420933	3734420	3.55E-04	1.62E-03	3.55E-06	4.87E-05	2.22E-04	5.29E-07	2.99E-05	1.02E-04	1.23E-07
4052	420932.9	3734411	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
4053	420932.9	3734402	2.90E-04	1.32E-03	2.90E-06	3.97E-05	1.81E-04	4.31E-07	2.44E-05	8.32E-05	1.00E-07
4054	420932.8	3734392	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.21E-05	7.56E-05	9.10E-08
4055	420953.5	3734494	6.63E-04	3.03E-03	6.62E-06	9.08E-05	4.14E-04	9.86E-07	5.57E-05	1.90E-04	2.29E-07
4056	420953.5	3734485	6.07E-04	2.77E-03	6.06E-06	8.32E-05	3.79E-04	9.03E-07	5.10E-05	1.74E-04	2.10E-07
4057	420953.4	3734476	5.53E-04	2.53E-03	5.53E-06	7.58E-05	3.46E-04	8.23E-07	4.65E-05	1.59E-04	1.91E-07
4058	420953.3	3734466	5.02E-04	2.30E-03	5.02E-06	6.88E-05	3.14E-04	7.48E-07	4.22E-05	1.44E-04	1.74E-07
4059	420953.1	3734438	3.71E-04	1.70E-03	3.71E-06	5.09E-05	2.32E-04	5.52E-07	3.12E-05	1.07E-04	1.28E-07
4060	420953.1	3734429	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
4061	420953	3734420	3.03E-04	1.39E-03	3.03E-06	4.16E-05	1.90E-04	4.51E-07	2.55E-05	8.71E-05	1.05E-07
4062	420952.9	3734411	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.09E-07	2.31E-05	7.90E-05	9.50E-08
4063	420952.9	3734401	2.50E-04	1.14E-03	2.50E-06	3.43E-05	1.56E-04	3.72E-07	2.11E-05	7.19E-05	8.65E-08
4064	420952.8	3734392	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.92E-05	6.57E-05	7.91E-08
4065	420973.5	3734494	5.47E-04	2.50E-03	5.47E-06	7.50E-05	3.42E-04	8.14E-07	4.60E-05	1.57E-04	1.89E-07
4066	420973.5	3734485	5.03E-04	2.30E-03	5.03E-06	6.89E-05	3.14E-04	7.49E-07	4.23E-05	1.45E-04	1.74E-07
4067	420973.4	3734475	4.61E-04	2.11E-03	4.60E-06	6.31E-05	2.88E-04	6.86E-07	3.87E-05	1.32E-04	1.59E-07

4068	420973.3	3734466	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.26E-07	3.54E-05	1.21E-04	1.45E-07
4069	420973.1	3734438	3.16E-04	1.45E-03	3.16E-06	4.34E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
4070	420973.1	3734429	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4071	420973	3734420	2.62E-04	1.20E-03	2.61E-06	3.59E-05	1.64E-04	3.89E-07	2.20E-05	7.52E-05	9.04E-08
4072	420972.9	3734411	2.39E-04	1.09E-03	2.38E-06	3.27E-05	1.49E-04	3.55E-07	2.01E-05	6.86E-05	8.24E-08
4073	420972.9	3734401	2.18E-04	9.98E-04	2.18E-06	2.99E-05	1.36E-04	3.25E-07	1.84E-05	6.27E-05	7.54E-08
4074	420972.8	3734392	2.01E-04	9.17E-04	2.00E-06	2.75E-05	1.25E-04	2.99E-07	1.69E-05	5.76E-05	6.93E-08
4075	420993.6	3734503	4.94E-04	2.26E-03	4.94E-06	6.78E-05	3.09E-04	7.36E-07	4.16E-05	1.42E-04	1.71E-07
4076	420993.5	3734494	4.58E-04	2.09E-03	4.58E-06	6.28E-05	2.86E-04	6.82E-07	3.85E-05	1.32E-04	1.58E-07
4077	420993.5	3734485	4.22E-04	1.93E-03	4.22E-06	5.79E-05	2.64E-04	6.29E-07	3.55E-05	1.21E-04	1.46E-07
4078	420993.4	3734475	3.88E-04	1.78E-03	3.88E-06	5.33E-05	2.43E-04	5.78E-07	3.27E-05	1.12E-04	1.34E-07
4079	420993.3	3734466	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
4080	421013.6	3734503	4.14E-04	1.89E-03	4.14E-06	5.68E-05	2.59E-04	6.17E-07	3.49E-05	1.19E-04	1.43E-07
4081	421013.5	3734494	3.85E-04	1.76E-03	3.85E-06	5.28E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
4082	421013.5	3734484	3.58E-04	1.64E-03	3.58E-06	4.90E-05	2.24E-04	5.32E-07	3.01E-05	1.03E-04	1.24E-07
4083	421013.4	3734475	3.31E-04	1.51E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.14E-07
4084	421013.3	3734466	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.77E-05	1.05E-07
4085	421013.2	3734447	2.58E-04	1.18E-03	2.58E-06	3.53E-05	1.61E-04	3.84E-07	2.17E-05	7.40E-05	8.90E-08
4086	421013.1	3734438	2.37E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.80E-05	8.17E-08
4087	421013.1	3734429	2.17E-04	9.93E-04	2.17E-06	2.98E-05	1.36E-04	3.23E-07	1.83E-05	6.24E-05	7.51E-08
4088	421013	3734420	2.00E-04	9.13E-04	2.00E-06	2.74E-05	1.25E-04	2.97E-07	1.68E-05	5.74E-05	6.90E-08
4089	421012.9	3734410	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
4090	421012.9	3734401	1.70E-04	7.76E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.88E-05	5.87E-08
4091	421012.8	3734392	1.57E-04	7.19E-04	1.57E-06	2.16E-05	9.83E-05	2.34E-07	1.32E-05	4.52E-05	5.43E-08
4092	421033.6	3734503	3.52E-04	1.61E-03	3.51E-06	4.82E-05	2.20E-04	5.23E-07	2.96E-05	1.01E-04	1.22E-07
4093	421033.5	3734494	3.28E-04	1.50E-03	3.28E-06	4.50E-05	2.05E-04	4.88E-07	2.76E-05	9.43E-05	1.13E-07
4094	421033.5	3734484	3.05E-04	1.40E-03	3.05E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.78E-05	1.06E-07
4095	421033.4	3734475	2.84E-04	1.30E-03	2.84E-06	3.89E-05	1.77E-04	4.23E-07	2.39E-05	8.16E-05	9.81E-08
4096	421033.3	3734466	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
4097	421033.2	3734447	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.74E-08
4098	421033.1	3734438	2.06E-04	9.41E-04	2.06E-06	2.82E-05	1.29E-04	3.06E-07	1.73E-05	5.91E-05	7.11E-08
4099	421033.1	3734429	1.89E-04	8.66E-04	1.89E-06	2.60E-05	1.18E-04	2.82E-07	1.59E-05	5.44E-05	6.54E-08
4100	421033	3734419	1.75E-04	8.00E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.03E-05	6.04E-08
4101	421032.9	3734410	1.62E-04	7.39E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.65E-05	5.59E-08
4102	421032.9	3734401	1.50E-04	6.85E-04	1.50E-06	2.05E-05	9.37E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
4103	421032.8	3734392	1.40E-04	6.42E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
4104	421073.6	3734503	2.64E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.11E-08
4105	421073.5	3734493	2.47E-04	1.13E-03	2.47E-06	3.38E-05	1.54E-04	3.67E-07	2.08E-05	7.09E-05	8.53E-08
4106	421073.5	3734484	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.61E-05	7.94E-08
4107	421073.4	3734475	2.13E-04	9.76E-04	2.13E-06	2.93E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.37E-08
4108	421073.3	3734465	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.83E-08
4109	421153.6	3734502	1.61E-04	7.38E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.64E-05	5.58E-08
4110	421153.5	3734493	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.29E-05	4.39E-05	5.28E-08
4111	421153.5	3734483	1.43E-04	6.55E-04	1.43E-06	1.96E-05	8.96E-05	2.13E-07	1.21E-05	4.12E-05	4.95E-08
4112	421153.4	3734474	1.34E-04	6.12E-04	1.34E-06	1.84E-05	8.37E-05	1.99E-07	1.13E-05	3.85E-05	4.63E-08
4113	421153.3	3734465	1.25E-04	5.72E-04	1.25E-06	1.72E-05	7.82E-05	1.86E-07	1.05E-05	3.60E-05	4.32E-08
4114	421153.2	3734446	1.11E-04	5.05E-04	1.10E-06	1.52E-05	6.91E-05	1.65E-07	9.30E-06	3.18E-05	3.82E-08
4115	421153.1	3734437	1.04E-04	4.76E-04	1.04E-06	1.43E-05	6.51E-05	1.55E-07	8.76E-06	2.99E-05	3.60E-08
4116	421153.1	3734428	9.83E-05	4.50E-04	9.83E-07	1.35E-05	6.15E-05	1.46E-07	8.27E-06	2.83E-05	3.40E-08
4117	421153	3734419	9.34E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.68E-05	3.23E-08
4118	421152.9	3734409	8.84E-05	4.04E-04	8.84E-07	1.21E-05	5.53E-05	1.32E-07	7.44E-06	2.54E-05	3.06E-08
4119	421152.9	3734400	8.34E-05	3.81E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
4120	421152.8	3734391	7.87E-05	3.60E-04	7.87E-07	1.08E-05	4.92E-05	1.17E-07	6.62E-06	2.26E-05	2.72E-08
4121	421193.6	3734502	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.74E-05	4.50E-08
4122	421193.5	3734492	1.24E-04	5.66E-04	1.24E-06	1.70E-05	7.74E-05	1.84E-07	1.04E-05	3.56E-05	4.28E-08
4123	421193.4	3734483	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.33E-05	1.74E-07	9.86E-06	3.37E-05	4.05E-08
4124	421193.4	3734474	1.11E-04	5.07E-04	1.11E-06	1.52E-05	6.93E-05	1.65E-07	9.33E-06	3.18E-05	3.83E-08
4125	421193.3	3734465	1.05E-04	4.79E-04	1.05E-06	1.44E-05	6.55E-05	1.56E-07	8.81E-06	3.01E-05	3.62E-08
4126	421193.2	3734446	9.35E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.69E-05	3.23E-08

4127	421193.1	3734437	8.83E-05	4.04E-04	8.83E-07	1.21E-05	5.52E-05	1.31E-07	7.43E-06	2.54E-05	3.05E-08
4128	421193	3734427	8.35E-05	3.82E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
4129	421193	3734418	7.89E-05	3.61E-04	7.88E-07	1.08E-05	4.93E-05	1.17E-07	6.64E-06	2.27E-05	2.73E-08
4130	421192.9	3734409	7.46E-05	3.41E-04	7.46E-07	1.02E-05	4.66E-05	1.11E-07	6.28E-06	2.14E-05	2.58E-08
4131	421192.8	3734400	7.06E-05	3.23E-04	7.06E-07	9.68E-06	4.42E-05	1.05E-07	5.94E-06	2.03E-05	2.44E-08
4132	421192.8	3734390	6.69E-05	3.06E-04	6.69E-07	9.17E-06	4.18E-05	9.96E-08	5.63E-06	1.92E-05	2.31E-08
4133	421233.6	3734501	1.07E-04	4.91E-04	1.07E-06	1.47E-05	6.71E-05	1.60E-07	9.03E-06	3.09E-05	3.71E-08
4134	421233.5	3734492	1.02E-04	4.67E-04	1.02E-06	1.40E-05	6.38E-05	1.52E-07	8.59E-06	2.93E-05	3.53E-08
4135	421233.4	3734483	9.70E-05	4.43E-04	9.69E-07	1.33E-05	6.06E-05	1.44E-07	8.16E-06	2.79E-05	3.35E-08
4136	421233.4	3734474	9.20E-05	4.21E-04	9.20E-07	1.26E-05	5.75E-05	1.37E-07	7.74E-06	2.64E-05	3.18E-08
4137	421233.3	3734464	8.73E-05	3.99E-04	8.72E-07	1.20E-05	5.46E-05	1.30E-07	7.34E-06	2.51E-05	3.02E-08
4138	421233.1	3734436	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.57E-08
4139	421233	3734427	7.07E-05	3.23E-04	7.07E-07	9.69E-06	4.42E-05	1.05E-07	5.95E-06	2.03E-05	2.44E-08
4140	421233	3734418	6.71E-05	3.07E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
4141	421232.9	3734409	6.37E-05	2.91E-04	6.36E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
4142	421232.8	3734399	6.05E-05	2.76E-04	6.04E-07	8.29E-06	3.78E-05	9.00E-08	5.09E-06	1.74E-05	2.09E-08
4143	421232.8	3734390	5.74E-05	2.63E-04	5.74E-07	7.87E-06	3.59E-05	8.55E-08	4.83E-06	1.65E-05	1.98E-08
4144	421273.5	3734510	9.40E-05	4.30E-04	9.39E-07	1.29E-05	5.88E-05	1.40E-07	7.91E-06	2.70E-05	3.25E-08
4145	421273.6	3734501	8.97E-05	4.10E-04	8.96E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
4146	421273.5	3734492	8.55E-05	3.91E-04	8.55E-07	1.17E-05	5.35E-05	1.27E-07	7.20E-06	2.46E-05	2.96E-08
4147	421273.4	3734483	8.15E-05	3.73E-04	8.14E-07	1.12E-05	5.09E-05	1.21E-07	6.86E-06	2.34E-05	2.82E-08
4148	421273.4	3734473	7.76E-05	3.55E-04	7.76E-07	1.06E-05	4.85E-05	1.16E-07	6.53E-06	2.23E-05	2.68E-08
4149	421273.3	3734464	7.39E-05	3.38E-04	7.38E-07	1.01E-05	4.62E-05	1.10E-07	6.21E-06	2.12E-05	2.55E-08
4150	421273.2	3734455	7.03E-05	3.21E-04	7.02E-07	9.63E-06	4.39E-05	1.05E-07	5.91E-06	2.02E-05	2.43E-08
4151	421273.2	3734445	6.68E-05	3.06E-04	6.68E-07	9.16E-06	4.18E-05	9.95E-08	5.62E-06	1.92E-05	2.31E-08
4152	421273.1	3734436	6.36E-05	2.91E-04	6.35E-07	8.71E-06	3.97E-05	9.46E-08	5.35E-06	1.83E-05	2.20E-08
4153	421273	3734427	6.05E-05	2.77E-04	6.05E-07	8.29E-06	3.78E-05	9.00E-08	5.09E-06	1.74E-05	2.09E-08
4154	421273	3734418	5.76E-05	2.63E-04	5.76E-07	7.89E-06	3.60E-05	8.57E-08	4.85E-06	1.65E-05	1.99E-08
4155	421272.9	3734408	5.49E-05	2.51E-04	5.48E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
4156	421272.8	3734399	5.23E-05	2.39E-04	5.23E-07	7.17E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4157	421272.8	3734390	4.96E-05	2.27E-04	4.96E-07	6.81E-06	3.10E-05	7.39E-08	4.18E-06	1.43E-05	1.72E-08
4158	421313.5	3734507	7.83E-05	3.58E-04	7.83E-07	1.07E-05	4.90E-05	1.17E-07	6.59E-06	2.25E-05	2.71E-08
4159	421313.5	3734492	7.25E-05	3.32E-04	7.25E-07	9.94E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.51E-08
4160	421313.4	3734482	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.39E-08
4161	421313.4	3734473	6.62E-05	3.03E-04	6.61E-07	9.07E-06	4.14E-05	9.85E-08	5.57E-06	1.90E-05	2.29E-08
4162	421313.3	3734464	6.32E-05	2.89E-04	6.32E-07	8.66E-06	3.95E-05	9.41E-08	5.32E-06	1.82E-05	2.18E-08
4163	421313.2	3734454	6.03E-05	2.76E-04	6.03E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
4164	421313.2	3734445	5.75E-05	2.63E-04	5.75E-07	7.88E-06	3.60E-05	8.56E-08	4.84E-06	1.65E-05	1.99E-08
4165	421313.1	3734436	5.49E-05	2.51E-04	5.49E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
4166	421313	3734427	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4167	421313	3734417	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.11E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
4168	421312.9	3734408	4.76E-05	2.17E-04	4.75E-07	6.52E-06	2.97E-05	7.08E-08	4.00E-06	1.37E-05	1.64E-08
4169	421312.8	3734399	4.54E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.76E-08	3.82E-06	1.31E-05	1.57E-08
4170	421312.8	3734390	4.35E-05	1.99E-04	4.34E-07	5.96E-06	2.72E-05	6.47E-08	3.66E-06	1.25E-05	1.50E-08
4171	421353.1	3734436	4.79E-05	2.19E-04	4.79E-07	6.56E-06	2.99E-05	7.13E-08	4.03E-06	1.38E-05	1.65E-08
4172	421353	3734426	4.58E-05	2.10E-04	4.58E-07	6.28E-06	2.87E-05	6.82E-08	3.86E-06	1.32E-05	1.58E-08
4173	421353	3734417	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.75E-05	6.54E-08	3.69E-06	1.26E-05	1.52E-08
4174	421352.9	3734408	4.21E-05	1.92E-04	4.21E-07	5.77E-06	2.63E-05	6.26E-08	3.54E-06	1.21E-05	1.45E-08
4175	421352.8	3734399	4.03E-05	1.84E-04	4.03E-07	5.53E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
4176	421352.8	3734389	3.87E-05	1.77E-04	3.87E-07	5.30E-06	2.42E-05	5.76E-08	3.25E-06	1.11E-05	1.34E-08
4177	421393.5	3734508	5.78E-05	2.64E-04	5.78E-07	7.92E-06	3.61E-05	8.60E-08	4.86E-06	1.66E-05	2.00E-08
4178	421393.5	3734491	5.39E-05	2.46E-04	5.38E-07	7.38E-06	3.37E-05	8.02E-08	4.53E-06	1.55E-05	1.86E-08
4179	421393.4	3734482	5.17E-05	2.36E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
4180	421393.4	3734472	4.97E-05	2.27E-04	4.96E-07	6.81E-06	3.10E-05	7.39E-08	4.18E-06	1.43E-05	1.72E-08
4181	421393.3	3734463	4.77E-05	2.18E-04	4.76E-07	6.53E-06	2.98E-05	7.09E-08	4.01E-06	1.37E-05	1.65E-08
4182	421393.2	3734454	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
4183	421393.2	3734445	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.74E-05	6.54E-08	3.69E-06	1.26E-05	1.52E-08
4184	421393.1	3734435	4.21E-05	1.93E-04	4.21E-07	5.78E-06	2.63E-05	6.27E-08	3.55E-06	1.21E-05	1.46E-08
4185	421393	3734426	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08

4186	421393	3734417	3.89E-05	1.78E-04	3.88E-07	5.33E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
4187	421392.9	3734408	3.73E-05	1.71E-04	3.73E-07	5.12E-06	2.33E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
4188	421392.8	3734398	3.59E-05	1.64E-04	3.58E-07	4.92E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
4189	421392.8	3734389	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.89E-06	9.89E-06	1.19E-08
4190	421433.5	3734508	4.97E-05	2.27E-04	4.97E-07	6.82E-06	3.11E-05	7.40E-08	4.18E-06	1.43E-05	1.72E-08
4191	421433.5	3734491	4.65E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
4192	421433.4	3734481	4.49E-05	2.05E-04	4.49E-07	6.16E-06	2.81E-05	6.69E-08	3.78E-06	1.29E-05	1.55E-08
4193	421433.4	3734472	4.33E-05	1.98E-04	4.33E-07	5.94E-06	2.71E-05	6.45E-08	3.65E-06	1.25E-05	1.50E-08
4194	421433.3	3734463	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
4195	421433.2	3734454	4.03E-05	1.84E-04	4.03E-07	5.53E-06	2.52E-05	6.01E-08	3.39E-06	1.16E-05	1.39E-08
4196	421433.2	3734444	3.89E-05	1.78E-04	3.88E-07	5.33E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
4197	421433.1	3734435	3.74E-05	1.71E-04	3.74E-07	5.13E-06	2.34E-05	5.57E-08	3.15E-06	1.07E-05	1.29E-08
4198	421433	3734426	3.60E-05	1.65E-04	3.60E-07	4.93E-06	2.25E-05	5.36E-08	3.03E-06	1.03E-05	1.24E-08
4199	421433	3734416	3.46E-05	1.58E-04	3.46E-07	4.75E-06	2.17E-05	5.16E-08	2.91E-06	9.95E-06	1.20E-08
4200	421432.9	3734407	3.33E-05	1.52E-04	3.33E-07	4.57E-06	2.08E-05	4.96E-08	2.81E-06	9.58E-06	1.15E-08
4201	421432.8	3734398	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.23E-06	1.11E-08
4202	421432.8	3734389	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.89E-06	1.07E-08
4203	420732.8	3734854	2.21E-04	1.01E-03	2.21E-06	3.03E-05	1.38E-04	3.29E-07	1.86E-05	6.35E-05	7.63E-08
4204	420744.5	3734854	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
4205	420732.8	3734894	1.65E-04	7.54E-04	1.65E-06	2.26E-05	1.03E-04	2.45E-07	1.39E-05	4.74E-05	5.70E-08
4206	420744.5	3734894	1.88E-04	8.59E-04	1.88E-06	2.58E-05	1.17E-04	2.80E-07	1.58E-05	5.40E-05	6.49E-08
4207	420732.8	3734934	1.28E-04	5.83E-04	1.27E-06	1.75E-05	7.97E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
4208	420744.5	3734934	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
4209	420732.8	3734974	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.41E-05	1.53E-07	8.63E-06	2.95E-05	3.54E-08
4210	420744.5	3734974	1.14E-04	5.21E-04	1.14E-06	1.56E-05	7.13E-05	1.70E-07	9.59E-06	3.28E-05	3.94E-08
4211	420732.8	3735014	8.32E-05	3.81E-04	8.32E-07	1.14E-05	5.20E-05	1.24E-07	7.00E-06	2.39E-05	2.88E-08
4212	420744.5	3735014	9.14E-05	4.18E-04	9.13E-07	1.25E-05	5.71E-05	1.36E-07	7.69E-06	2.63E-05	3.16E-08
4213	420732.8	3735054	6.81E-05	3.11E-04	6.81E-07	9.34E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
4214	420744.5	3735054	7.43E-05	3.40E-04	7.43E-07	1.02E-05	4.65E-05	1.11E-07	6.25E-06	2.14E-05	2.57E-08
4215	420754.4	3734384	1.08E-03	4.95E-03	1.08E-05	1.48E-04	6.76E-04	1.61E-06	9.10E-05	3.11E-04	3.74E-07
4216	420754.4	3734374	8.59E-04	3.93E-03	8.59E-06	1.18E-04	5.37E-04	1.28E-06	7.23E-05	2.47E-04	2.97E-07
4217	420754.3	3734365	6.97E-04	3.19E-03	6.96E-06	9.55E-05	4.36E-04	1.04E-06	5.86E-05	2.00E-04	2.41E-07
4218	420754.3	3734355	5.75E-04	2.63E-03	5.74E-06	7.88E-05	3.59E-04	8.56E-07	4.84E-05	1.65E-04	1.99E-07
4219	420754.3	3734345	4.80E-04	2.20E-03	4.80E-06	6.59E-05	3.00E-04	7.15E-07	4.04E-05	1.38E-04	1.66E-07
4220	420754.2	3734335	4.07E-04	1.86E-03	4.06E-06	5.57E-05	2.54E-04	6.05E-07	3.42E-05	1.17E-04	1.40E-07
4221	420754.2	3734326	3.48E-04	1.59E-03	3.48E-06	4.77E-05	2.17E-04	5.18E-07	2.93E-05	9.99E-05	1.20E-07
4222	420764.4	3734384	9.95E-04	4.55E-03	9.94E-06	1.36E-04	6.22E-04	1.48E-06	8.37E-05	2.86E-04	3.44E-07
4223	420764.4	3734374	8.05E-04	3.68E-03	8.05E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
4224	420764.3	3734365	6.63E-04	3.03E-03	6.62E-06	9.08E-05	4.14E-04	9.86E-07	5.57E-05	1.90E-04	2.29E-07
4225	420764.3	3734355	5.52E-04	2.53E-03	5.52E-06	7.57E-05	3.45E-04	8.22E-07	4.65E-05	1.59E-04	1.91E-07
4226	420764.3	3734345	4.66E-04	2.13E-03	4.66E-06	6.39E-05	2.91E-04	6.94E-07	3.92E-05	1.34E-04	1.61E-07
4227	420764.2	3734335	3.97E-04	1.82E-03	3.97E-06	5.44E-05	2.48E-04	5.91E-07	3.34E-05	1.14E-04	1.37E-07
4228	420764.2	3734326	3.42E-04	1.56E-03	3.42E-06	4.69E-05	2.14E-04	5.09E-07	2.88E-05	9.83E-05	1.18E-07
4229	420774.4	3734384	9.08E-04	4.15E-03	9.08E-06	1.25E-04	5.68E-04	1.35E-06	7.64E-05	2.61E-04	3.14E-07
4230	420774.4	3734374	7.48E-04	3.42E-03	7.47E-06	1.03E-04	4.67E-04	1.11E-06	6.29E-05	2.15E-04	2.58E-07
4231	420774.3	3734364	6.24E-04	2.85E-03	6.24E-06	8.55E-05	3.90E-04	9.29E-07	5.25E-05	1.79E-04	2.16E-07
4232	420774.3	3734355	5.26E-04	2.41E-03	5.26E-06	7.21E-05	3.29E-04	7.83E-07	4.43E-05	1.51E-04	1.82E-07
4233	420774.3	3734345	4.48E-04	2.05E-03	4.48E-06	6.14E-05	2.80E-04	6.67E-07	3.77E-05	1.29E-04	1.55E-07
4234	420774.2	3734335	3.85E-04	1.76E-03	3.85E-06	5.28E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
4235	420774.2	3734326	3.34E-04	1.53E-03	3.33E-06	4.57E-05	2.09E-04	4.97E-07	2.81E-05	9.59E-05	1.15E-07
4236	420834.4	3734374	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
4237	420834.3	3734364	4.02E-04	1.84E-03	4.02E-06	5.51E-05	2.51E-04	5.99E-07	3.38E-05	1.16E-04	1.39E-07
4238	420834.3	3734355	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4239	420834.3	3734345	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
4240	420834.2	3734335	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4241	420834.2	3734325	2.59E-04	1.18E-03	2.59E-06	3.55E-05	1.62E-04	3.85E-07	2.18E-05	7.43E-05	8.94E-08
4242	420834.2	3734316	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.48E-07	1.96E-05	6.71E-05	8.07E-08
4243	420834.1	3734306	2.11E-04	9.66E-04	2.11E-06	2.89E-05	1.32E-04	3.14E-07	1.78E-05	6.07E-05	7.30E-08
4244	420844.4	3734384	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	3.99E-05	1.36E-04	1.64E-07

4245	420844.4	3734374	4.19E-04	1.92E-03	4.19E-06	5.74E-05	2.62E-04	6.24E-07	3.53E-05	1.20E-04	1.45E-07
4246	420844.3	3734364	3.73E-04	1.70E-03	3.73E-06	5.11E-05	2.33E-04	5.55E-07	3.14E-05	1.07E-04	1.29E-07
4247	420844.3	3734355	3.34E-04	1.53E-03	3.34E-06	4.58E-05	2.09E-04	4.97E-07	2.81E-05	9.59E-05	1.15E-07
4248	420844.3	3734345	3.00E-04	1.37E-03	3.00E-06	4.12E-05	1.88E-04	4.47E-07	2.53E-05	8.63E-05	1.04E-07
4249	420844.2	3734335	2.71E-04	1.24E-03	2.71E-06	3.71E-05	1.69E-04	4.03E-07	2.28E-05	7.79E-05	9.36E-08
4250	420844.2	3734325	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.65E-07	2.06E-05	7.04E-05	8.47E-08
4251	420844.2	3734316	2.22E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
4252	420844.1	3734306	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
4253	420843.5	3734444	1.28E-03	5.87E-03	1.28E-05	1.76E-04	8.03E-04	1.91E-06	1.08E-04	3.69E-04	4.44E-07
4254	420864.4	3734384	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.38E-05	1.15E-04	1.39E-07
4255	420864.4	3734374	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4256	420864.3	3734364	3.22E-04	1.47E-03	3.21E-06	4.41E-05	2.01E-04	4.79E-07	2.71E-05	9.24E-05	1.11E-07
4257	420864.3	3734354	2.91E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4258	420864.3	3734345	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.93E-07	2.22E-05	7.58E-05	9.11E-08
4259	420864.2	3734335	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.58E-07	2.02E-05	6.90E-05	8.30E-08
4260	420864.2	3734325	2.19E-04	1.00E-03	2.19E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.30E-05	7.58E-08
4261	420864.2	3734316	2.01E-04	9.18E-04	2.01E-06	2.75E-05	1.26E-04	2.99E-07	1.69E-05	5.77E-05	6.94E-08
4262	420864.1	3734306	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
4263	420884.3	3734345	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.02E-08
4264	420884.2	3734335	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
4265	420884.2	3734325	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
4266	420884.2	3734316	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4267	420884.1	3734306	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
4268	420884.1	3734296	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.65E-05	2.30E-07	1.30E-05	4.44E-05	5.33E-08
4269	420882.9	3734445	7.95E-04	3.64E-03	7.95E-06	1.09E-04	4.97E-04	1.18E-06	6.69E-05	2.29E-04	2.75E-07
4270	420904.4	3734383	2.95E-04	1.35E-03	2.95E-06	4.04E-05	1.84E-04	4.39E-07	2.48E-05	8.47E-05	1.02E-07
4271	420904.4	3734374	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.25E-05	7.67E-05	9.23E-08
4272	420904.3	3734345	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
4273	420904.2	3734335	1.89E-04	8.65E-04	1.89E-06	2.59E-05	1.18E-04	2.82E-07	1.59E-05	5.44E-05	6.54E-08
4274	420904.2	3734325	1.75E-04	8.01E-04	1.75E-06	2.40E-05	1.09E-04	2.61E-07	1.47E-05	5.03E-05	6.05E-08
4275	420904.2	3734315	1.62E-04	7.43E-04	1.62E-06	2.23E-05	1.02E-04	2.42E-07	1.37E-05	4.67E-05	5.61E-08
4276	420904.1	3734306	1.51E-04	6.90E-04	1.51E-06	2.07E-05	9.44E-05	2.25E-07	1.27E-05	4.34E-05	5.22E-08
4277	420904.1	3734296	1.40E-04	6.42E-04	1.40E-06	1.93E-05	8.78E-05	2.09E-07	1.18E-05	4.04E-05	4.85E-08
4278	420903.5	3734444	6.26E-04	2.86E-03	6.26E-06	8.58E-05	3.91E-04	9.32E-07	5.27E-05	1.80E-04	2.16E-07
4279	420924.4	3734383	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.34E-05	8.82E-08
4280	420924.4	3734374	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
4281	420924.3	3734345	1.81E-04	8.29E-04	1.81E-06	2.49E-05	1.13E-04	2.70E-07	1.53E-05	5.21E-05	6.27E-08
4282	420924.2	3734335	1.68E-04	7.69E-04	1.68E-06	2.31E-05	1.05E-04	2.50E-07	1.42E-05	4.84E-05	5.82E-08
4283	420924.2	3734325	1.57E-04	7.16E-04	1.57E-06	2.15E-05	9.79E-05	2.33E-07	1.32E-05	4.50E-05	5.41E-08
4284	420924.2	3734315	1.46E-04	6.68E-04	1.46E-06	2.00E-05	9.13E-05	2.17E-07	1.23E-05	4.20E-05	5.05E-08
4285	420924.1	3734306	1.36E-04	6.24E-04	1.36E-06	1.87E-05	8.53E-05	2.03E-07	1.15E-05	3.92E-05	4.71E-08
4286	420924.1	3734296	1.28E-04	5.83E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
4287	420922.6	3734446	5.32E-04	2.43E-03	5.31E-06	7.29E-05	3.32E-04	7.91E-07	4.47E-05	1.53E-04	1.84E-07
4288	420904.4	3734491	1.10E-03	5.01E-03	1.09E-05	1.50E-04	6.85E-04	1.63E-06	9.21E-05	3.15E-04	3.78E-07
4289	420944.4	3734383	2.23E-04	1.02E-03	2.23E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.40E-05	7.69E-08
4290	420944.4	3734374	2.04E-04	9.33E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.86E-05	7.05E-08
4291	420944.3	3734344	1.61E-04	7.37E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.63E-05	5.57E-08
4292	420944.2	3734335	1.50E-04	6.87E-04	1.50E-06	2.06E-05	9.39E-05	2.24E-07	1.26E-05	4.32E-05	5.19E-08
4293	420944.2	3734325	1.40E-04	6.41E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
4294	420944.2	3734315	1.31E-04	6.01E-04	1.31E-06	1.80E-05	8.21E-05	1.96E-07	1.11E-05	3.77E-05	4.54E-08
4295	420944.1	3734306	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.70E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
4296	420944.1	3734296	1.16E-04	5.29E-04	1.16E-06	1.59E-05	7.24E-05	1.72E-07	9.74E-06	3.33E-05	4.00E-08
4297	420943.1	3734445	4.34E-04	1.99E-03	4.34E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
4298	420964.4	3734383	1.96E-04	8.94E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.65E-05	5.62E-05	6.76E-08
4299	420964.4	3734373	1.80E-04	8.23E-04	1.80E-06	2.47E-05	1.13E-04	2.68E-07	1.51E-05	5.17E-05	6.22E-08
4300	420964.3	3734344	1.44E-04	6.58E-04	1.44E-06	1.97E-05	9.00E-05	2.14E-07	1.21E-05	4.14E-05	4.98E-08
4301	420964.2	3734335	1.35E-04	6.15E-04	1.34E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
4302	420964.2	3734325	1.26E-04	5.76E-04	1.26E-06	1.73E-05	7.88E-05	1.88E-07	1.06E-05	3.62E-05	4.36E-08
4303	420964.2	3734315	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08

4304	420964.1	3734306	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.97E-05	1.66E-07	9.37E-06	3.20E-05	3.85E-08
4305	420964.1	3734296	1.05E-04	4.81E-04	1.05E-06	1.44E-05	6.57E-05	1.56E-07	8.84E-06	3.02E-05	3.63E-08
4306	420943.9	3734491	7.11E-04	3.25E-03	7.10E-06	9.74E-05	4.44E-04	1.06E-06	5.98E-05	2.04E-04	2.46E-07
4307	420940.3	3734500	8.03E-04	3.67E-03	8.03E-06	1.10E-04	5.02E-04	1.20E-06	6.76E-05	2.31E-04	2.78E-07
4308	420887.6	3734574	2.27E-03	1.04E-02	2.27E-05	3.12E-04	1.42E-03	3.38E-06	1.91E-04	6.53E-04	7.85E-07
4309	420807.1	3734608	5.19E-03	2.37E-02	5.19E-05	7.12E-04	3.25E-03	7.73E-06	4.37E-04	1.49E-03	1.79E-06
4310	420964.7	3734489	5.69E-04	2.60E-03	5.69E-06	7.80E-05	3.56E-04	8.47E-07	4.79E-05	1.63E-04	1.97E-07
4311	420902.3	3734588	1.94E-03	8.89E-03	1.94E-05	2.67E-04	1.22E-03	2.90E-06	1.64E-04	5.59E-04	6.72E-07
4312	420823.4	3734621	4.02E-03	1.84E-02	4.02E-05	5.52E-04	2.52E-03	5.99E-06	3.39E-04	1.16E-03	1.39E-06
4313	421004.4	3734383	1.54E-04	7.04E-04	1.54E-06	2.11E-05	9.62E-05	2.29E-07	1.29E-05	4.42E-05	5.32E-08
4314	421004.4	3734373	1.43E-04	6.53E-04	1.43E-06	1.96E-05	8.92E-05	2.12E-07	1.20E-05	4.10E-05	4.93E-08
4315	421004.3	3734344	1.16E-04	5.31E-04	1.16E-06	1.59E-05	7.26E-05	1.73E-07	9.77E-06	3.34E-05	4.01E-08
4316	421004.2	3734335	1.09E-04	4.99E-04	1.09E-06	1.49E-05	6.82E-05	1.62E-07	9.17E-06	3.13E-05	3.77E-08
4317	421004.2	3734325	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
4318	421004.2	3734315	9.69E-05	4.43E-04	9.69E-07	1.33E-05	6.06E-05	1.44E-07	8.15E-06	2.79E-05	3.35E-08
4319	421004.1	3734305	9.18E-05	4.20E-04	9.17E-07	1.26E-05	5.74E-05	1.37E-07	7.72E-06	2.64E-05	3.17E-08
4320	421004.1	3734296	8.71E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.33E-06	2.50E-05	3.01E-08
4321	421003.2	3734444	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.01E-07	2.27E-05	7.74E-05	9.31E-08
4322	420891.1	3734613	2.18E-03	9.98E-03	2.18E-05	2.99E-04	1.36E-03	3.25E-06	1.84E-04	6.27E-04	7.54E-07
4323	420839.3	3734634	3.21E-03	1.47E-02	3.21E-05	4.40E-04	2.01E-03	4.78E-06	2.70E-04	9.22E-04	1.11E-06
4324	421024.4	3734383	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.59E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
4325	421024.4	3734373	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.99E-05	1.90E-07	1.08E-05	3.67E-05	4.42E-08
4326	421024.3	3734344	1.05E-04	4.80E-04	1.05E-06	1.44E-05	6.56E-05	1.56E-07	8.83E-06	3.01E-05	3.63E-08
4327	421024.2	3734334	9.88E-05	4.52E-04	9.87E-07	1.35E-05	6.18E-05	1.47E-07	8.31E-06	2.84E-05	3.41E-08
4328	421024.2	3734325	9.32E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.84E-06	2.68E-05	3.22E-08
4329	421024.2	3734315	8.82E-05	4.03E-04	8.81E-07	1.21E-05	5.51E-05	1.31E-07	7.42E-06	2.53E-05	3.05E-08
4330	421024.1	3734305	8.37E-05	3.82E-04	8.36E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.40E-05	2.89E-08
4331	421024.1	3734296	7.96E-05	3.64E-04	7.95E-07	1.09E-05	4.97E-05	1.18E-07	6.69E-06	2.29E-05	2.75E-08
4332	421022.6	3734446	2.38E-04	1.09E-03	2.38E-06	3.26E-05	1.49E-04	3.54E-07	2.00E-05	6.84E-05	8.23E-08
4333	421004.4	3734490	4.05E-04	1.85E-03	4.05E-06	5.55E-05	2.53E-04	6.03E-07	3.41E-05	1.16E-04	1.40E-07
4334	420975.2	3734561	8.25E-04	3.77E-03	8.25E-06	1.13E-04	5.16E-04	1.23E-06	6.94E-05	2.37E-04	2.85E-07
4335	420971.6	3734570	8.83E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.31E-06	7.43E-05	2.54E-04	3.05E-07
4336	420967.9	3734579	9.41E-04	4.30E-03	9.41E-06	1.29E-04	5.89E-04	1.40E-06	7.92E-05	2.71E-04	3.25E-07
4337	420964.3	3734588	1.00E-03	4.59E-03	1.00E-05	1.38E-04	6.28E-04	1.49E-06	8.44E-05	2.88E-04	3.47E-07
4338	420930.4	3734616	1.46E-03	6.70E-03	1.46E-05	2.01E-04	9.16E-04	2.18E-06	1.23E-04	4.21E-04	5.06E-07
4339	420850.7	3734650	2.66E-03	1.22E-02	2.66E-05	3.65E-04	1.66E-03	3.96E-06	2.24E-04	7.65E-04	9.20E-07
4340	421044.5	3734393	1.31E-04	5.99E-04	1.31E-06	1.79E-05	8.19E-05	1.95E-07	1.10E-05	3.76E-05	4.52E-08
4341	421044.4	3734383	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.70E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
4342	421044.4	3734373	1.15E-04	5.26E-04	1.15E-06	1.58E-05	7.19E-05	1.71E-07	9.68E-06	3.31E-05	3.98E-08
4343	421044.3	3734344	9.50E-05	4.35E-04	9.50E-07	1.30E-05	5.94E-05	1.41E-07	8.00E-06	2.73E-05	3.28E-08
4344	421044.2	3734334	8.97E-05	4.10E-04	8.96E-07	1.23E-05	5.61E-05	1.33E-07	7.54E-06	2.58E-05	3.10E-08
4345	421044.2	3734325	8.48E-05	3.88E-04	8.47E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
4346	421044.2	3734315	8.04E-05	3.68E-04	8.03E-07	1.10E-05	5.03E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
4347	421044.1	3734305	7.64E-05	3.49E-04	7.64E-07	1.05E-05	4.78E-05	1.14E-07	6.43E-06	2.20E-05	2.64E-08
4348	421062.4	3734446	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4349	421055.1	3734464	2.21E-04	1.01E-03	2.21E-06	3.03E-05	1.38E-04	3.29E-07	1.86E-05	6.36E-05	7.64E-08
4350	421051.4	3734473	2.44E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.02E-05	8.45E-08
4351	421047.7	3734482	2.70E-04	1.23E-03	2.70E-06	3.70E-05	1.69E-04	4.01E-07	2.27E-05	7.75E-05	9.32E-08
4352	421044.1	3734491	2.97E-04	1.36E-03	2.97E-06	4.07E-05	1.86E-04	4.42E-07	2.50E-05	8.53E-05	1.03E-07
4353	421014.7	3734562	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.75E-07	4.95E-05	1.69E-04	2.03E-07
4354	420992.7	3734616	8.40E-04	3.84E-03	8.40E-06	1.15E-04	5.25E-04	1.25E-06	7.07E-05	2.41E-04	2.90E-07
4355	420989	3734625	8.79E-04	4.02E-03	8.79E-06	1.21E-04	5.50E-04	1.31E-06	7.40E-05	2.53E-04	3.04E-07
4356	420958.6	3734645	1.15E-03	5.25E-03	1.15E-05	1.57E-04	7.18E-04	1.71E-06	9.66E-05	3.30E-04	3.97E-07
4357	420878.3	3734678	1.88E-03	8.58E-03	1.88E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
4358	421053	3734566	4.45E-04	2.03E-03	4.45E-06	6.10E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
4359	421049.4	3734575	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	4.00E-05	1.36E-04	1.64E-07
4360	421045.8	3734584	5.05E-04	2.31E-03	5.05E-06	6.93E-05	3.16E-04	7.52E-07	4.25E-05	1.45E-04	1.75E-07
4361	421042.2	3734592	5.36E-04	2.45E-03	5.35E-06	7.34E-05	3.35E-04	7.97E-07	4.51E-05	1.54E-04	1.85E-07
4362	420987.6	3734673	9.07E-04	4.15E-03	9.07E-06	1.24E-04	5.67E-04	1.35E-06	7.63E-05	2.61E-04	3.14E-07

4363	420961.6	3734684	1.07E-03	4.89E-03	1.07E-05	1.47E-04	6.68E-04	1.59E-06	8.99E-05	3.07E-04	3.69E-07
4364	420909.4	3734705	1.37E-03	6.27E-03	1.37E-05	1.88E-04	8.57E-04	2.04E-06	1.15E-04	3.94E-04	4.74E-07
4365	421124.5	3734392	8.98E-05	4.11E-04	8.98E-07	1.23E-05	5.62E-05	1.34E-07	7.56E-06	2.58E-05	3.10E-08
4366	421124.4	3734383	8.44E-05	3.86E-04	8.43E-07	1.16E-05	5.27E-05	1.26E-07	7.10E-06	2.42E-05	2.91E-08
4367	421124.4	3734373	7.94E-05	3.63E-04	7.94E-07	1.09E-05	4.96E-05	1.18E-07	6.68E-06	2.28E-05	2.74E-08
4368	421124.3	3734353	7.08E-05	3.24E-04	7.08E-07	9.71E-06	4.43E-05	1.05E-07	5.96E-06	2.03E-05	2.45E-08
4369	421124.3	3734344	6.71E-05	3.07E-04	6.71E-07	9.20E-06	4.19E-05	9.99E-08	5.64E-06	1.93E-05	2.32E-08
4370	421124.2	3734334	6.37E-05	2.91E-04	6.37E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
4371	421124.2	3734324	6.06E-05	2.77E-04	6.06E-07	8.31E-06	3.79E-05	9.02E-08	5.10E-06	1.74E-05	2.09E-08
4372	421124.2	3734315	5.78E-05	2.64E-04	5.78E-07	7.92E-06	3.61E-05	8.60E-08	4.86E-06	1.66E-05	2.00E-08
4373	421124.1	3734305	5.52E-05	2.52E-04	5.52E-07	7.57E-06	3.45E-05	8.22E-08	4.64E-06	1.59E-05	1.91E-08
4374	421124.1	3734295	5.28E-05	2.42E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.83E-08
4375	421142.8	3734445	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.15E-05	1.70E-07	9.62E-06	3.28E-05	3.95E-08
4376	421135.6	3734462	1.33E-04	6.08E-04	1.33E-06	1.82E-05	8.31E-05	1.98E-07	1.12E-05	3.82E-05	4.60E-08
4377	421132	3734471	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.07E-05	2.16E-07	1.22E-05	4.17E-05	5.01E-08
4378	421128.4	3734480	1.58E-04	7.22E-04	1.58E-06	2.17E-05	9.88E-05	2.35E-07	1.33E-05	4.54E-05	5.46E-08
4379	421124.8	3734489	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.95E-08
4380	421088.8	3734576	3.63E-04	1.66E-03	3.63E-06	4.97E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
4381	421085.2	3734585	3.86E-04	1.77E-03	3.86E-06	5.29E-05	2.41E-04	5.75E-07	3.25E-05	1.11E-04	1.33E-07
4382	421081.6	3734594	4.09E-04	1.87E-03	4.09E-06	5.61E-05	2.56E-04	6.09E-07	3.44E-05	1.18E-04	1.41E-07
4383	421078	3734602	4.32E-04	1.98E-03	4.32E-06	5.93E-05	2.70E-04	6.43E-07	3.64E-05	1.24E-04	1.49E-07
4384	421074.4	3734611	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
4385	421033.2	3734694	6.56E-04	3.00E-03	6.55E-06	8.99E-05	4.10E-04	9.76E-07	5.52E-05	1.88E-04	2.27E-07
4386	421024.5	3734697	6.93E-04	3.17E-03	6.92E-06	9.49E-05	4.33E-04	1.03E-06	5.83E-05	1.99E-04	2.39E-07
4387	421015.7	3734701	7.31E-04	3.34E-03	7.30E-06	1.00E-04	4.57E-04	1.09E-06	6.15E-05	2.10E-04	2.52E-07
4388	420989.5	3734712	8.44E-04	3.86E-03	8.43E-06	1.16E-04	5.27E-04	1.26E-06	7.10E-05	2.42E-04	2.91E-07
4389	420980.7	3734716	8.80E-04	4.02E-03	8.79E-06	1.21E-04	5.50E-04	1.31E-06	7.40E-05	2.53E-04	3.04E-07
4390	420972	3734719	9.15E-04	4.18E-03	9.15E-06	1.25E-04	5.72E-04	1.36E-06	7.70E-05	2.63E-04	3.16E-07
4391	421164.3	3734353	6.06E-05	2.77E-04	6.06E-07	8.31E-06	3.79E-05	9.02E-08	5.10E-06	1.74E-05	2.09E-08
4392	421164.3	3734344	5.76E-05	2.63E-04	5.75E-07	7.89E-06	3.60E-05	8.57E-08	4.84E-06	1.65E-05	1.99E-08
4393	421164.2	3734334	5.48E-05	2.50E-04	5.47E-07	7.51E-06	3.42E-05	8.15E-08	4.61E-06	1.57E-05	1.89E-08
4394	421164.2	3734324	5.22E-05	2.39E-04	5.22E-07	7.15E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4395	421164.2	3734315	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
4396	421164.1	3734305	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
4397	421164.1	3734295	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
4398	421182.7	3734445	9.73E-05	4.45E-04	9.73E-07	1.33E-05	6.08E-05	1.45E-07	8.19E-06	2.80E-05	3.36E-08
4399	421175.5	3734463	1.12E-04	5.13E-04	1.12E-06	1.54E-05	7.01E-05	1.67E-07	9.44E-06	3.22E-05	3.88E-08
4400	421171.8	3734471	1.21E-04	5.54E-04	1.21E-06	1.66E-05	7.58E-05	1.80E-07	1.02E-05	3.48E-05	4.19E-08
4401	421168.2	3734480	1.31E-04	5.98E-04	1.31E-06	1.79E-05	8.17E-05	1.95E-07	1.10E-05	3.76E-05	4.52E-08
4402	421164.6	3734489	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.80E-05	2.10E-07	1.18E-05	4.05E-05	4.87E-08
4403	421132	3734568	2.63E-04	1.20E-03	2.63E-06	3.60E-05	1.64E-04	3.91E-07	2.21E-05	7.55E-05	9.08E-08
4404	421128.3	3734577	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.69E-08
4405	421124.7	3734586	2.99E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4406	421121.1	3734595	3.17E-04	1.45E-03	3.17E-06	4.34E-05	1.98E-04	4.72E-07	2.67E-05	9.11E-05	1.10E-07
4407	421117.5	3734604	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.64E-05	1.16E-07
4408	421061.5	3734722	5.48E-04	2.51E-03	5.48E-06	7.52E-05	3.43E-04	8.16E-07	4.61E-05	1.58E-04	1.89E-07
4409	421052.7	3734726	5.76E-04	2.63E-03	5.75E-06	7.89E-05	3.60E-04	8.57E-07	4.84E-05	1.65E-04	1.99E-07
4410	421043.9	3734729	6.02E-04	2.75E-03	6.02E-06	8.25E-05	3.76E-04	8.96E-07	5.06E-05	1.73E-04	2.08E-07
4411	420964.6	3734762	8.12E-04	3.71E-03	8.12E-06	1.11E-04	5.08E-04	1.21E-06	6.84E-05	2.33E-04	2.81E-07
4412	420955.8	3734766	8.34E-04	3.81E-03	8.33E-06	1.14E-04	5.21E-04	1.24E-06	7.01E-05	2.40E-04	2.88E-07
4413	420947	3734770	8.54E-04	3.91E-03	8.54E-06	1.17E-04	5.34E-04	1.27E-06	7.19E-05	2.45E-04	2.95E-07
4414	420938.2	3734773	8.71E-04	3.98E-03	8.71E-06	1.19E-04	5.45E-04	1.30E-06	7.33E-05	2.50E-04	3.01E-07
4415	420929.4	3734777	8.85E-04	4.05E-03	8.84E-06	1.21E-04	5.53E-04	1.32E-06	7.44E-05	2.54E-04	3.06E-07
4416	420920.6	3734781	8.92E-04	4.08E-03	8.92E-06	1.22E-04	5.58E-04	1.33E-06	7.51E-05	2.56E-04	3.08E-07
4417	420911.8	3734784	8.95E-04	4.09E-03	8.94E-06	1.23E-04	5.59E-04	1.33E-06	7.53E-05	2.57E-04	3.09E-07
4418	420903	3734788	8.92E-04	4.08E-03	8.91E-06	1.22E-04	5.58E-04	1.33E-06	7.50E-05	2.56E-04	3.08E-07
4419	420894.2	3734792	8.84E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.32E-06	7.43E-05	2.54E-04	3.05E-07
4420	420885.4	3734795	8.70E-04	3.98E-03	8.69E-06	1.19E-04	5.44E-04	1.29E-06	7.32E-05	2.50E-04	3.00E-07
4421	420876.6	3734799	8.49E-04	3.88E-03	8.49E-06	1.16E-04	5.31E-04	1.26E-06	7.15E-05	2.44E-04	2.94E-07

4422	420867.8	3734802	8.24E-04	3.77E-03	8.23E-06	1.13E-04	5.15E-04	1.23E-06	6.93E-05	2.37E-04	2.85E-07
4423	420859	3734806	7.92E-04	3.62E-03	7.92E-06	1.09E-04	4.95E-04	1.18E-06	6.67E-05	2.28E-04	2.74E-07
4424	420850.1	3734810	7.56E-04	3.46E-03	7.56E-06	1.04E-04	4.73E-04	1.13E-06	6.36E-05	2.17E-04	2.61E-07
4425	420841.3	3734813	7.17E-04	3.28E-03	7.17E-06	9.83E-05	4.48E-04	1.07E-06	6.03E-05	2.06E-04	2.48E-07
4426	420832.5	3734817	6.75E-04	3.09E-03	6.75E-06	9.25E-05	4.22E-04	1.00E-06	5.68E-05	1.94E-04	2.33E-07
4427	420823.7	3734821	6.31E-04	2.88E-03	6.30E-06	8.64E-05	3.94E-04	9.39E-07	5.31E-05	1.81E-04	2.18E-07
4428	420814.9	3734824	5.85E-04	2.67E-03	5.85E-06	8.02E-05	3.66E-04	8.71E-07	4.92E-05	1.68E-04	2.02E-07
4429	420806.1	3734828	5.39E-04	2.46E-03	5.38E-06	7.39E-05	3.37E-04	8.02E-07	4.53E-05	1.55E-04	1.86E-07
4430	420797.3	3734832	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4431	420788.5	3734835	4.48E-04	2.05E-03	4.48E-06	6.14E-05	2.80E-04	6.67E-07	3.77E-05	1.29E-04	1.55E-07
4432	420779.7	3734839	4.05E-04	1.85E-03	4.05E-06	5.55E-05	2.53E-04	6.03E-07	3.41E-05	1.16E-04	1.40E-07
4433	420770.9	3734843	3.64E-04	1.67E-03	3.64E-06	5.00E-05	2.28E-04	5.43E-07	3.07E-05	1.05E-04	1.26E-07
4434	420762.1	3734846	3.26E-04	1.49E-03	3.26E-06	4.47E-05	2.04E-04	4.86E-07	2.74E-05	9.37E-05	1.13E-07
4435	420753.3	3734850	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4436	421204.5	3734392	6.45E-05	2.95E-04	6.45E-07	8.85E-06	4.04E-05	9.61E-08	5.43E-06	1.85E-05	2.23E-08
4437	421204.4	3734382	6.11E-05	2.79E-04	6.11E-07	8.38E-06	3.82E-05	9.10E-08	5.14E-06	1.76E-05	2.11E-08
4438	421204.4	3734373	5.79E-05	2.65E-04	5.79E-07	7.94E-06	3.62E-05	8.62E-08	4.87E-06	1.66E-05	2.00E-08
4439	421204.3	3734353	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4440	421204.3	3734343	4.97E-05	2.27E-04	4.97E-07	6.82E-06	3.11E-05	7.40E-08	4.18E-06	1.43E-05	1.72E-08
4441	421204.2	3734334	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.97E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
4442	421204.2	3734324	4.53E-05	2.07E-04	4.53E-07	6.22E-06	2.83E-05	6.75E-08	3.81E-06	1.30E-05	1.57E-08
4443	421204.2	3734314	4.34E-05	1.98E-04	4.34E-07	5.95E-06	2.71E-05	6.46E-08	3.65E-06	1.25E-05	1.50E-08
4444	421204.1	3734305	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
4445	421204.1	3734295	4.00E-05	1.83E-04	4.00E-07	5.48E-06	2.50E-05	5.95E-08	3.36E-06	1.15E-05	1.38E-08
4446	421222.6	3734445	8.18E-05	3.74E-04	8.17E-07	1.12E-05	5.11E-05	1.22E-07	6.88E-06	2.35E-05	2.83E-08
4447	421215.3	3734463	9.37E-05	4.28E-04	9.36E-07	1.28E-05	5.86E-05	1.39E-07	7.88E-06	2.69E-05	3.24E-08
4448	421211.6	3734472	1.00E-04	4.59E-04	1.00E-06	1.38E-05	6.27E-05	1.49E-07	8.44E-06	2.88E-05	3.47E-08
4449	421208	3734481	1.08E-04	4.92E-04	1.08E-06	1.47E-05	6.73E-05	1.60E-07	9.05E-06	3.09E-05	3.72E-08
4450	421204.4	3734489	1.15E-04	5.27E-04	1.15E-06	1.58E-05	7.21E-05	1.72E-07	9.70E-06	3.31E-05	3.99E-08
4451	421171.6	3734569	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.09E-08
4452	421167.9	3734578	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
4453	421164.3	3734587	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
4454	421160.6	3734596	2.46E-04	1.13E-03	2.46E-06	3.38E-05	1.54E-04	3.67E-07	2.07E-05	7.08E-05	8.51E-08
4455	421157	3734605	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.88E-07	2.19E-05	7.49E-05	9.01E-08
4456	421153.3	3734614	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.10E-07	2.32E-05	7.91E-05	9.51E-08
4457	421149.7	3734622	2.90E-04	1.32E-03	2.89E-06	3.97E-05	1.81E-04	4.31E-07	2.44E-05	8.32E-05	1.00E-07
4458	421146	3734631	3.04E-04	1.39E-03	3.04E-06	4.16E-05	1.90E-04	4.52E-07	2.56E-05	8.73E-05	1.05E-07
4459	421142.4	3734640	3.18E-04	1.45E-03	3.18E-06	4.36E-05	1.99E-04	4.73E-07	2.67E-05	9.13E-05	1.10E-07
4460	421138.8	3734649	3.31E-04	1.51E-03	3.31E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
4461	421135.1	3734658	3.43E-04	1.57E-03	3.43E-06	4.70E-05	2.14E-04	5.11E-07	2.89E-05	9.86E-05	1.19E-07
4462	421131.5	3734667	3.55E-04	1.62E-03	3.55E-06	4.87E-05	2.22E-04	5.28E-07	2.99E-05	1.02E-04	1.23E-07
4463	421127.8	3734676	3.67E-04	1.68E-03	3.67E-06	5.03E-05	2.30E-04	5.47E-07	3.09E-05	1.05E-04	1.27E-07
4464	421124.2	3734685	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
4465	421120.5	3734693	3.90E-04	1.78E-03	3.90E-06	5.35E-05	2.44E-04	5.81E-07	3.28E-05	1.12E-04	1.35E-07
4466	421089.8	3734750	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
4467	421081	3734754	4.82E-04	2.20E-03	4.82E-06	6.60E-05	3.01E-04	7.17E-07	4.05E-05	1.38E-04	1.66E-07
4468	421072.1	3734758	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.14E-04	7.47E-07	4.22E-05	1.44E-04	1.73E-07
4469	421045.5	3734769	5.54E-04	2.53E-03	5.53E-06	7.59E-05	3.46E-04	8.24E-07	4.66E-05	1.59E-04	1.91E-07
4470	421036.7	3734772	5.71E-04	2.61E-03	5.70E-06	7.82E-05	3.57E-04	8.49E-07	4.80E-05	1.64E-04	1.97E-07
4471	421027.8	3734776	5.87E-04	2.69E-03	5.87E-06	8.05E-05	3.67E-04	8.74E-07	4.94E-05	1.69E-04	2.03E-07
4472	420992.4	3734791	6.52E-04	2.98E-03	6.51E-06	8.93E-05	4.07E-04	9.70E-07	5.48E-05	1.87E-04	2.25E-07
4473	420983.5	3734794	6.67E-04	3.05E-03	6.67E-06	9.14E-05	4.17E-04	9.93E-07	5.61E-05	1.92E-04	2.31E-07
4474	420974.7	3734798	6.82E-04	3.12E-03	6.81E-06	9.34E-05	4.26E-04	1.01E-06	5.73E-05	1.96E-04	2.36E-07
4475	420965.8	3734802	6.94E-04	3.17E-03	6.94E-06	9.51E-05	4.34E-04	1.03E-06	5.84E-05	1.99E-04	2.40E-07
4476	420957	3734805	7.04E-04	3.22E-03	7.04E-06	9.66E-05	4.40E-04	1.05E-06	5.93E-05	2.02E-04	2.43E-07
4477	420948.1	3734809	7.13E-04	3.26E-03	7.13E-06	9.78E-05	4.46E-04	1.06E-06	6.00E-05	2.05E-04	2.46E-07
4478	420939.3	3734813	7.19E-04	3.29E-03	7.18E-06	9.85E-05	4.49E-04	1.07E-06	6.05E-05	2.07E-04	2.48E-07
4479	420930.4	3734816	7.21E-04	3.30E-03	7.20E-06	9.88E-05	4.51E-04	1.07E-06	6.06E-05	2.07E-04	2.49E-07
4480	420921.6	3734820	7.18E-04	3.28E-03	7.18E-06	9.84E-05	4.49E-04	1.07E-06	6.04E-05	2.06E-04	2.48E-07

4481	420912.7	3734824	7.11E-04	3.25E-03	7.11E-06	9.75E-05	4.45E-04	1.06E-06	5.98E-05	2.04E-04	2.46E-07
4482	420903.8	3734827	7.01E-04	3.20E-03	7.00E-06	9.60E-05	4.38E-04	1.04E-06	5.89E-05	2.01E-04	2.42E-07
4483	420895	3734831	6.86E-04	3.13E-03	6.85E-06	9.40E-05	4.29E-04	1.02E-06	5.77E-05	1.97E-04	2.37E-07
4484	420886.1	3734835	6.66E-04	3.05E-03	6.66E-06	9.14E-05	4.17E-04	9.92E-07	5.61E-05	1.91E-04	2.30E-07
4485	420877.3	3734839	6.44E-04	2.94E-03	6.43E-06	8.83E-05	4.03E-04	9.58E-07	5.42E-05	1.85E-04	2.22E-07
4486	420868.4	3734842	6.18E-04	2.83E-03	6.18E-06	8.47E-05	3.86E-04	9.20E-07	5.20E-05	1.78E-04	2.14E-07
4487	420859.6	3734846	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
4488	420850.7	3734850	5.59E-04	2.55E-03	5.58E-06	7.66E-05	3.49E-04	8.32E-07	4.70E-05	1.61E-04	1.93E-07
4489	420841.9	3734853	5.26E-04	2.41E-03	5.26E-06	7.21E-05	3.29E-04	7.83E-07	4.43E-05	1.51E-04	1.82E-07
4490	420833	3734857	4.92E-04	2.25E-03	4.92E-06	6.75E-05	3.08E-04	7.33E-07	4.14E-05	1.42E-04	1.70E-07
4491	420824.2	3734861	4.58E-04	2.09E-03	4.58E-06	6.28E-05	2.86E-04	6.82E-07	3.85E-05	1.32E-04	1.58E-07
4492	420815.3	3734864	4.23E-04	1.94E-03	4.23E-06	5.80E-05	2.65E-04	6.30E-07	3.56E-05	1.22E-04	1.46E-07
4493	420806.4	3734868	3.89E-04	1.78E-03	3.89E-06	5.34E-05	2.43E-04	5.79E-07	3.27E-05	1.12E-04	1.35E-07
4494	420797.6	3734872	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	2.99E-05	1.02E-04	1.23E-07
4495	420788.7	3734875	3.24E-04	1.48E-03	3.24E-06	4.44E-05	2.03E-04	4.82E-07	2.73E-05	9.31E-05	1.12E-07
4496	420779.9	3734879	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
4497	420771	3734883	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.58E-05	9.11E-08
4498	420762.2	3734886	2.36E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.79E-05	8.17E-08
4499	420753.3	3734890	2.11E-04	9.67E-04	2.11E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.08E-05	7.31E-08
4500	421262.5	3734445	6.96E-05	3.18E-04	6.95E-07	9.53E-06	4.35E-05	1.04E-07	5.85E-06	2.00E-05	2.40E-08
4501	421258.8	3734454	7.42E-05	3.39E-04	7.41E-07	1.02E-05	4.64E-05	1.10E-07	6.24E-06	2.13E-05	2.56E-08
4502	421255.2	3734463	7.91E-05	3.62E-04	7.90E-07	1.08E-05	4.94E-05	1.18E-07	6.65E-06	2.27E-05	2.73E-08
4503	421251.5	3734472	8.43E-05	3.86E-04	8.43E-07	1.16E-05	5.27E-05	1.26E-07	7.10E-06	2.42E-05	2.91E-08
4504	421207.6	3734579	1.74E-04	7.97E-04	1.74E-06	2.39E-05	1.09E-04	2.59E-07	1.47E-05	5.01E-05	6.02E-08
4505	421203.9	3734588	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.75E-07	1.55E-05	5.30E-05	6.37E-08
4506	421200.2	3734597	1.95E-04	8.92E-04	1.95E-06	2.67E-05	1.22E-04	2.90E-07	1.64E-05	5.60E-05	6.74E-08
4507	421196.6	3734606	2.06E-04	9.44E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.74E-05	5.93E-05	7.13E-08
4508	421192.9	3734614	2.18E-04	9.95E-04	2.18E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.52E-08
4509	421189.2	3734623	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.58E-05	7.91E-08
4510	421185.6	3734632	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.58E-07	2.02E-05	6.90E-05	8.30E-08
4511	421181.9	3734641	2.51E-04	1.15E-03	2.51E-06	3.45E-05	1.57E-04	3.74E-07	2.12E-05	7.23E-05	8.69E-08
4512	421178.3	3734650	2.63E-04	1.20E-03	2.63E-06	3.60E-05	1.64E-04	3.91E-07	2.21E-05	7.55E-05	9.08E-08
4513	421174.6	3734659	2.74E-04	1.25E-03	2.74E-06	3.75E-05	1.71E-04	4.08E-07	2.30E-05	7.87E-05	9.46E-08
4514	421170.9	3734668	2.85E-04	1.30E-03	2.84E-06	3.90E-05	1.78E-04	4.24E-07	2.39E-05	8.18E-05	9.83E-08
4515	421167.3	3734677	2.95E-04	1.35E-03	2.95E-06	4.05E-05	1.85E-04	4.40E-07	2.49E-05	8.49E-05	1.02E-07
4516	421163.6	3734686	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.91E-04	4.56E-07	2.57E-05	8.79E-05	1.06E-07
4517	421160	3734695	3.16E-04	1.45E-03	3.16E-06	4.34E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
4518	421156.3	3734704	3.26E-04	1.49E-03	3.26E-06	4.47E-05	2.04E-04	4.85E-07	2.74E-05	9.37E-05	1.13E-07
4519	421152.6	3734712	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.09E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
4520	421149	3734721	3.44E-04	1.57E-03	3.44E-06	4.71E-05	2.15E-04	5.12E-07	2.89E-05	9.88E-05	1.19E-07
4521	421073.6	3734797	4.65E-04	2.13E-03	4.65E-06	6.38E-05	2.91E-04	6.93E-07	3.91E-05	1.34E-04	1.61E-07
4522	421064.7	3734801	4.79E-04	2.19E-03	4.79E-06	6.57E-05	3.00E-04	7.13E-07	4.03E-05	1.38E-04	1.66E-07
4523	421055.8	3734804	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4524	421020.2	3734819	5.39E-04	2.47E-03	5.39E-06	7.39E-05	3.37E-04	8.03E-07	4.54E-05	1.55E-04	1.86E-07
4525	420993.6	3734830	5.68E-04	2.60E-03	5.68E-06	7.78E-05	3.55E-04	8.45E-07	4.78E-05	1.63E-04	1.96E-07
4526	420984.7	3734834	5.76E-04	2.63E-03	5.76E-06	7.90E-05	3.60E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
4527	420975.8	3734838	5.83E-04	2.67E-03	5.83E-06	7.99E-05	3.65E-04	8.68E-07	4.91E-05	1.68E-04	2.02E-07
4528	420966.9	3734841	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.76E-07	4.95E-05	1.69E-04	2.03E-07
4529	420958	3734845	5.91E-04	2.70E-03	5.91E-06	8.10E-05	3.70E-04	8.80E-07	4.97E-05	1.70E-04	2.04E-07
4530	420949.1	3734849	5.91E-04	2.70E-03	5.91E-06	8.11E-05	3.70E-04	8.80E-07	4.98E-05	1.70E-04	2.04E-07
4531	420940.2	3734852	5.89E-04	2.69E-03	5.89E-06	8.07E-05	3.68E-04	8.77E-07	4.96E-05	1.69E-04	2.04E-07
4532	420931.3	3734856	5.84E-04	2.67E-03	5.84E-06	8.00E-05	3.65E-04	8.69E-07	4.91E-05	1.68E-04	2.02E-07
4533	420922.4	3734860	5.76E-04	2.63E-03	5.75E-06	7.89E-05	3.60E-04	8.57E-07	4.84E-05	1.65E-04	1.99E-07
4534	420913.5	3734863	5.65E-04	2.58E-03	5.64E-06	7.74E-05	3.53E-04	8.40E-07	4.75E-05	1.62E-04	1.95E-07
4535	420904.6	3734867	5.50E-04	2.52E-03	5.50E-06	7.55E-05	3.44E-04	8.19E-07	4.63E-05	1.58E-04	1.90E-07
4536	420895.7	3734871	5.34E-04	2.44E-03	5.33E-06	7.32E-05	3.34E-04	7.94E-07	4.49E-05	1.53E-04	1.84E-07
4537	420886.8	3734875	5.14E-04	2.35E-03	5.14E-06	7.05E-05	3.22E-04	7.66E-07	4.33E-05	1.48E-04	1.78E-07
4538	420877.9	3734878	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4539	420869	3734882	4.70E-04	2.15E-03	4.69E-06	6.44E-05	2.94E-04	6.99E-07	3.95E-05	1.35E-04	1.62E-07

4540	420860.1	3734886	4.45E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
4541	420851.2	3734889	4.19E-04	1.91E-03	4.18E-06	5.74E-05	2.62E-04	6.23E-07	3.52E-05	1.20E-04	1.45E-07
4542	420842.3	3734893	3.92E-04	1.79E-03	3.92E-06	5.37E-05	2.45E-04	5.83E-07	3.30E-05	1.13E-04	1.35E-07
4543	420833.4	3734897	3.65E-04	1.67E-03	3.65E-06	5.00E-05	2.28E-04	5.43E-07	3.07E-05	1.05E-04	1.26E-07
4544	420824.5	3734900	3.38E-04	1.54E-03	3.38E-06	4.63E-05	2.11E-04	5.03E-07	2.84E-05	9.71E-05	1.17E-07
4545	420815.6	3734904	3.11E-04	1.42E-03	3.11E-06	4.27E-05	1.95E-04	4.64E-07	2.62E-05	8.95E-05	1.08E-07
4546	420806.7	3734908	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.21E-05	9.88E-08
4547	420797.8	3734912	2.62E-04	1.20E-03	2.62E-06	3.60E-05	1.64E-04	3.90E-07	2.21E-05	7.54E-05	9.06E-08
4548	420788.9	3734915	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.29E-08
4549	420780	3734919	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.29E-05	7.57E-08
4550	420771.1	3734923	1.99E-04	9.08E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
4551	420762.2	3734926	1.79E-04	8.21E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.16E-05	6.20E-08
4552	420753.4	3734930	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
4553	421284.5	3734392	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.66E-08
4554	421284.4	3734382	4.58E-05	2.09E-04	4.58E-07	6.28E-06	2.86E-05	6.82E-08	3.85E-06	1.32E-05	1.58E-08
4555	421284.4	3734372	4.36E-05	2.00E-04	4.36E-07	5.98E-06	2.73E-05	6.50E-08	3.67E-06	1.25E-05	1.51E-08
4556	421284.3	3734363	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
4557	421284.3	3734353	4.01E-05	1.84E-04	4.01E-07	5.50E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
4558	421284.3	3734343	3.85E-05	1.76E-04	3.85E-07	5.27E-06	2.41E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
4559	421284.2	3734333	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.49E-08	3.10E-06	1.06E-05	1.27E-08
4560	421284.2	3734324	3.54E-05	1.62E-04	3.54E-07	4.85E-06	2.21E-05	5.27E-08	2.98E-06	1.02E-05	1.22E-08
4561	421284.2	3734314	3.40E-05	1.55E-04	3.40E-07	4.66E-06	2.13E-05	5.06E-08	2.86E-06	9.77E-06	1.18E-08
4562	421284.1	3734304	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.40E-06	1.13E-08
4563	421284.1	3734295	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.06E-06	1.09E-08
4564	421302.4	3734445	5.98E-05	2.73E-04	5.98E-07	8.20E-06	3.74E-05	8.90E-08	5.03E-06	1.72E-05	2.07E-08
4565	421298.7	3734454	6.35E-05	2.90E-04	6.35E-07	8.71E-06	3.97E-05	9.46E-08	5.34E-06	1.83E-05	2.20E-08
4566	421295	3734463	6.75E-05	3.09E-04	6.75E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
4567	421291.4	3734472	7.17E-05	3.28E-04	7.17E-07	9.83E-06	4.48E-05	1.07E-07	6.03E-06	2.06E-05	2.48E-08
4568	421287.7	3734481	7.62E-05	3.49E-04	7.62E-07	1.04E-05	4.77E-05	1.13E-07	6.41E-06	2.19E-05	2.63E-08
4569	421284	3734490	8.10E-05	3.71E-04	8.10E-07	1.11E-05	5.07E-05	1.21E-07	6.82E-06	2.33E-05	2.80E-08
4570	421239.9	3734597	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
4571	421236.2	3734606	1.71E-04	7.82E-04	1.71E-06	2.34E-05	1.07E-04	2.55E-07	1.44E-05	4.91E-05	5.91E-08
4572	421232.5	3734615	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.17E-05	6.21E-08
4573	421228.9	3734624	1.88E-04	8.61E-04	1.88E-06	2.58E-05	1.18E-04	2.80E-07	1.58E-05	5.41E-05	6.51E-08
4574	421225.2	3734633	1.97E-04	9.00E-04	1.97E-06	2.70E-05	1.23E-04	2.93E-07	1.66E-05	5.66E-05	6.81E-08
4575	421221.5	3734642	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
4576	421217.8	3734651	2.14E-04	9.78E-04	2.14E-06	2.93E-05	1.34E-04	3.18E-07	1.80E-05	6.15E-05	7.39E-08
4577	421214.2	3734660	2.23E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
4578	421210.5	3734669	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
4579	421206.8	3734678	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.88E-05	8.27E-08
4580	421203.1	3734687	2.47E-04	1.13E-03	2.47E-06	3.39E-05	1.55E-04	3.68E-07	2.08E-05	7.11E-05	8.55E-08
4581	421199.5	3734696	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.33E-05	8.81E-08
4582	421195.8	3734705	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.21E-05	7.56E-05	9.10E-08
4583	421192.1	3734714	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.29E-05	7.81E-05	9.39E-08
4584	421188.4	3734723	2.80E-04	1.28E-03	2.79E-06	3.83E-05	1.75E-04	4.16E-07	2.35E-05	8.03E-05	9.66E-08
4585	421184.7	3734731	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.25E-05	9.92E-08
4586	421181.1	3734740	2.94E-04	1.34E-03	2.94E-06	4.03E-05	1.84E-04	4.38E-07	2.47E-05	8.45E-05	1.02E-07
4587	421177.4	3734749	3.01E-04	1.38E-03	3.01E-06	4.12E-05	1.88E-04	4.48E-07	2.53E-05	8.64E-05	1.04E-07
4588	421173.7	3734758	3.07E-04	1.40E-03	3.07E-06	4.21E-05	1.92E-04	4.57E-07	2.58E-05	8.82E-05	1.06E-07
4589	421092.8	3734829	4.02E-04	1.84E-03	4.02E-06	5.51E-05	2.51E-04	5.98E-07	3.38E-05	1.15E-04	1.39E-07
4590	421083.9	3734833	4.12E-04	1.88E-03	4.12E-06	5.65E-05	2.58E-04	6.13E-07	3.47E-05	1.18E-04	1.42E-07
4591	421048.2	3734848	4.53E-04	2.07E-03	4.53E-06	6.21E-05	2.83E-04	6.75E-07	3.81E-05	1.30E-04	1.57E-07
4592	421039.2	3734851	4.61E-04	2.11E-03	4.61E-06	6.32E-05	2.88E-04	6.87E-07	3.88E-05	1.33E-04	1.59E-07
4593	421030.3	3734855	4.69E-04	2.14E-03	4.69E-06	6.43E-05	2.93E-04	6.98E-07	3.95E-05	1.35E-04	1.62E-07
4594	421021.4	3734859	4.76E-04	2.18E-03	4.76E-06	6.52E-05	2.98E-04	7.08E-07	4.00E-05	1.37E-04	1.64E-07
4595	420994.6	3734870	4.92E-04	2.25E-03	4.92E-06	6.74E-05	3.07E-04	7.32E-07	4.14E-05	1.41E-04	1.70E-07
4596	420985.6	3734874	4.95E-04	2.26E-03	4.94E-06	6.78E-05	3.09E-04	7.36E-07	4.16E-05	1.42E-04	1.71E-07
4597	420976.7	3734877	4.96E-04	2.27E-03	4.96E-06	6.80E-05	3.10E-04	7.39E-07	4.17E-05	1.43E-04	1.71E-07
4598	420967.8	3734881	4.96E-04	2.27E-03	4.96E-06	6.80E-05	3.10E-04	7.38E-07	4.17E-05	1.43E-04	1.71E-07

4599	420958.8	3734885	4.94E-04	2.26E-03	4.93E-06	6.77E-05	3.09E-04	7.35E-07	4.15E-05	1.42E-04	1.71E-07
4600	420949.9	3734888	4.89E-04	2.24E-03	4.89E-06	6.71E-05	3.06E-04	7.28E-07	4.12E-05	1.41E-04	1.69E-07
4601	420941	3734892	4.82E-04	2.21E-03	4.82E-06	6.61E-05	3.02E-04	7.18E-07	4.06E-05	1.39E-04	1.67E-07
4602	420932	3734896	4.73E-04	2.16E-03	4.73E-06	6.49E-05	2.96E-04	7.05E-07	3.98E-05	1.36E-04	1.64E-07
4603	420923.1	3734900	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
4604	420914.2	3734903	4.49E-04	2.05E-03	4.49E-06	6.16E-05	2.81E-04	6.68E-07	3.78E-05	1.29E-04	1.55E-07
4605	420905.2	3734907	4.34E-04	1.99E-03	4.34E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
4606	420896.3	3734911	4.17E-04	1.91E-03	4.17E-06	5.72E-05	2.61E-04	6.21E-07	3.51E-05	1.20E-04	1.44E-07
4607	420887.4	3734914	3.99E-04	1.82E-03	3.98E-06	5.47E-05	2.49E-04	5.93E-07	3.35E-05	1.15E-04	1.38E-07
4608	420878.4	3734918	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
4609	420869.5	3734922	3.59E-04	1.64E-03	3.58E-06	4.92E-05	2.24E-04	5.34E-07	3.02E-05	1.03E-04	1.24E-07
4610	420860.6	3734925	3.38E-04	1.55E-03	3.38E-06	4.64E-05	2.11E-04	5.03E-07	2.85E-05	9.72E-05	1.17E-07
4611	420851.6	3734929	3.17E-04	1.45E-03	3.17E-06	4.35E-05	1.98E-04	4.72E-07	2.67E-05	9.12E-05	1.10E-07
4612	420842.7	3734933	2.97E-04	1.36E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.52E-05	1.02E-07
4613	420833.8	3734937	2.76E-04	1.26E-03	2.76E-06	3.78E-05	1.72E-04	4.11E-07	2.32E-05	7.92E-05	9.53E-08
4614	420824.8	3734940	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.34E-05	8.83E-08
4615	420815.9	3734944	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.48E-04	3.51E-07	1.99E-05	6.78E-05	8.15E-08
4616	420807	3734948	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
4617	420798	3734951	2.00E-04	9.15E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
4618	420789.1	3734955	1.83E-04	8.39E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.34E-08
4619	420780.2	3734959	1.68E-04	7.67E-04	1.68E-06	2.30E-05	1.05E-04	2.50E-07	1.41E-05	4.82E-05	5.80E-08
4620	420771.3	3734963	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.54E-05	2.27E-07	1.28E-05	4.39E-05	5.28E-08
4621	420762.3	3734966	1.39E-04	6.34E-04	1.39E-06	1.90E-05	8.67E-05	2.07E-07	1.17E-05	3.99E-05	4.79E-08
4622	420753.4	3734970	1.26E-04	5.76E-04	1.26E-06	1.73E-05	7.88E-05	1.88E-07	1.06E-05	3.62E-05	4.35E-08
4623	421324.5	3734392	4.24E-05	1.94E-04	4.24E-07	5.81E-06	2.65E-05	6.31E-08	3.57E-06	1.22E-05	1.46E-08
4624	421324.4	3734382	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
4625	421324.4	3734372	3.88E-05	1.77E-04	3.87E-07	5.31E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
4626	421324.3	3734362	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
4627	421324.3	3734353	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.01E-06	1.03E-05	1.23E-08
4628	421324.3	3734343	3.43E-05	1.57E-04	3.43E-07	4.70E-06	2.14E-05	5.10E-08	2.88E-06	9.85E-06	1.18E-08
4629	421324.2	3734333	3.29E-05	1.51E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.46E-06	1.14E-08
4630	421324.2	3734324	3.16E-05	1.45E-04	3.16E-07	4.34E-06	1.98E-05	4.71E-08	2.66E-06	9.09E-06	1.09E-08
4631	421324.2	3734314	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
4632	421324.1	3734304	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.82E-05	4.34E-08	2.45E-06	8.38E-06	1.01E-08
4633	421324.1	3734295	2.82E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
4634	421342.8	3734444	5.16E-05	2.36E-04	5.16E-07	7.08E-06	3.23E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
4635	421339.1	3734453	5.45E-05	2.49E-04	5.45E-07	7.48E-06	3.41E-05	8.12E-08	4.59E-06	1.57E-05	1.88E-08
4636	421335.5	3734462	5.77E-05	2.64E-04	5.76E-07	7.90E-06	3.61E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
4637	421331.9	3734471	6.10E-05	2.79E-04	6.10E-07	8.36E-06	3.81E-05	9.08E-08	5.13E-06	1.75E-05	2.11E-08
4638	421328.3	3734479	6.45E-05	2.95E-04	6.45E-07	8.85E-06	4.03E-05	9.61E-08	5.43E-06	1.85E-05	2.23E-08
4639	421324.7	3734488	6.83E-05	3.12E-04	6.83E-07	9.36E-06	4.27E-05	1.02E-07	5.75E-06	1.96E-05	2.36E-08
4640	421321.1	3734497	7.23E-05	3.30E-04	7.22E-07	9.91E-06	4.52E-05	1.08E-07	6.08E-06	2.08E-05	2.50E-08
4641	421277.7	3734603	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.58E-05	2.04E-07	1.15E-05	3.94E-05	4.74E-08
4642	421274.1	3734611	1.45E-04	6.61E-04	1.44E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.15E-05	4.99E-08
4643	421270.4	3734620	1.52E-04	6.95E-04	1.52E-06	2.08E-05	9.50E-05	2.26E-07	1.28E-05	4.37E-05	5.25E-08
4644	421266.8	3734629	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
4645	421263.2	3734638	1.66E-04	7.61E-04	1.66E-06	2.28E-05	1.04E-04	2.48E-07	1.40E-05	4.78E-05	5.75E-08
4646	421259.6	3734647	1.74E-04	7.94E-04	1.74E-06	2.38E-05	1.09E-04	2.58E-07	1.46E-05	4.99E-05	6.00E-08
4647	421256	3734655	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4648	421252.4	3734664	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.57E-05	5.38E-05	6.47E-08
4649	421248.8	3734673	1.94E-04	8.85E-04	1.94E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.57E-05	6.69E-08
4650	421245.1	3734682	2.00E-04	9.15E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
4651	421241.5	3734691	2.06E-04	9.44E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.74E-05	5.93E-05	7.13E-08
4652	421237.9	3734699	2.13E-04	9.72E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.79E-05	6.11E-05	7.34E-08
4653	421234.3	3734708	2.18E-04	9.99E-04	2.18E-06	2.99E-05	1.37E-04	3.25E-07	1.84E-05	6.28E-05	7.55E-08
4654	421230.7	3734717	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.34E-07	1.89E-05	6.44E-05	7.75E-08
4655	421174.9	3734835	2.84E-04	1.30E-03	2.83E-06	3.89E-05	1.77E-04	4.22E-07	2.39E-05	8.15E-05	9.80E-08
4656	421166.1	3734839	2.91E-04	1.33E-03	2.91E-06	3.99E-05	1.82E-04	4.33E-07	2.45E-05	8.37E-05	1.01E-07
4657	421157.3	3734842	2.99E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07

4658	421131	3734853	3.22E-04	1.47E-03	3.22E-06	4.42E-05	2.01E-04	4.80E-07	2.71E-05	9.26E-05	1.11E-07
4659	421078.3	3734875	3.77E-04	1.73E-03	3.77E-06	5.17E-05	2.36E-04	5.62E-07	3.18E-05	1.08E-04	1.30E-07
4660	421069.5	3734879	3.86E-04	1.76E-03	3.86E-06	5.29E-05	2.41E-04	5.74E-07	3.25E-05	1.11E-04	1.33E-07
4661	421060.7	3734882	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.86E-07	3.31E-05	1.13E-04	1.36E-07
4662	421051.9	3734886	4.02E-04	1.84E-03	4.01E-06	5.50E-05	2.51E-04	5.98E-07	3.38E-05	1.15E-04	1.39E-07
4663	421043.1	3734890	4.07E-04	1.86E-03	4.07E-06	5.59E-05	2.55E-04	6.07E-07	3.43E-05	1.17E-04	1.41E-07
4664	421034.3	3734893	4.12E-04	1.89E-03	4.12E-06	5.65E-05	2.58E-04	6.14E-07	3.47E-05	1.19E-04	1.43E-07
4665	421025.6	3734897	4.17E-04	1.91E-03	4.17E-06	5.71E-05	2.61E-04	6.20E-07	3.51E-05	1.20E-04	1.44E-07
4666	421016.8	3734901	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.25E-07	3.53E-05	1.21E-04	1.45E-07
4667	420990.4	3734912	4.22E-04	1.93E-03	4.22E-06	5.78E-05	2.64E-04	6.28E-07	3.55E-05	1.21E-04	1.46E-07
4668	420981.6	3734915	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.25E-07	3.53E-05	1.21E-04	1.45E-07
4669	420972.8	3734919	4.17E-04	1.91E-03	4.17E-06	5.72E-05	2.61E-04	6.21E-07	3.51E-05	1.20E-04	1.44E-07
4670	420964.1	3734922	4.12E-04	1.89E-03	4.12E-06	5.65E-05	2.58E-04	6.14E-07	3.47E-05	1.19E-04	1.43E-07
4671	420955.3	3734926	4.06E-04	1.86E-03	4.06E-06	5.57E-05	2.54E-04	6.05E-07	3.42E-05	1.17E-04	1.40E-07
4672	420946.5	3734930	3.98E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.14E-04	1.38E-07
4673	420937.7	3734933	3.89E-04	1.78E-03	3.89E-06	5.33E-05	2.43E-04	5.79E-07	3.27E-05	1.12E-04	1.34E-07
4674	420928.9	3734937	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.63E-07	3.18E-05	1.09E-04	1.31E-07
4675	420920.1	3734941	3.65E-04	1.67E-03	3.65E-06	5.01E-05	2.28E-04	5.44E-07	3.07E-05	1.05E-04	1.26E-07
4676	420911.4	3734944	3.52E-04	1.61E-03	3.51E-06	4.82E-05	2.20E-04	5.23E-07	2.96E-05	1.01E-04	1.21E-07
4677	420902.6	3734948	3.37E-04	1.54E-03	3.36E-06	4.62E-05	2.10E-04	5.01E-07	2.83E-05	9.67E-05	1.16E-07
4678	420893.8	3734952	3.22E-04	1.47E-03	3.21E-06	4.41E-05	2.01E-04	4.79E-07	2.71E-05	9.24E-05	1.11E-07
4679	420885	3734955	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.91E-04	4.56E-07	2.58E-05	8.80E-05	1.06E-07
4680	420876.2	3734959	2.91E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4681	420867.4	3734963	2.75E-04	1.26E-03	2.74E-06	3.76E-05	1.72E-04	4.09E-07	2.31E-05	7.89E-05	9.49E-08
4682	420858.7	3734966	2.58E-04	1.18E-03	2.58E-06	3.54E-05	1.61E-04	3.84E-07	2.17E-05	7.42E-05	8.92E-08
4683	420849.9	3734970	2.42E-04	1.11E-03	2.42E-06	3.32E-05	1.51E-04	3.60E-07	2.03E-05	6.95E-05	8.36E-08
4684	420841.1	3734974	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.36E-07	1.90E-05	6.49E-05	7.80E-08
4685	420832.3	3734977	2.10E-04	9.62E-04	2.10E-06	2.88E-05	1.32E-04	3.13E-07	1.77E-05	6.05E-05	7.27E-08
4686	420823.5	3734981	1.95E-04	8.94E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.64E-05	5.62E-05	6.75E-08
4687	420814.7	3734985	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.20E-05	6.25E-08
4688	420805.9	3734988	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.49E-07	1.40E-05	4.80E-05	5.77E-08
4689	420797.2	3734992	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.62E-05	2.29E-07	1.29E-05	4.42E-05	5.32E-08
4690	420788.4	3734995	1.42E-04	6.47E-04	1.42E-06	1.94E-05	8.85E-05	2.11E-07	1.19E-05	4.07E-05	4.89E-08
4691	420779.6	3734999	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.74E-05	4.50E-08
4692	420770.8	3735003	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.46E-05	1.78E-07	1.00E-05	3.43E-05	4.12E-08
4693	420762	3735006	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.83E-05	1.63E-07	9.19E-06	3.14E-05	3.77E-08
4694	420753.2	3735010	9.99E-05	4.57E-04	9.98E-07	1.37E-05	6.25E-05	1.49E-07	8.40E-06	2.87E-05	3.45E-08
4695	421364.5	3734391	3.78E-05	1.73E-04	3.77E-07	5.18E-06	2.36E-05	5.62E-08	3.18E-06	1.08E-05	1.30E-08
4696	421364.4	3734382	3.62E-05	1.65E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.04E-06	1.04E-05	1.25E-08
4697	421364.4	3734372	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.97E-06	1.20E-08
4698	421364.3	3734362	3.33E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.56E-06	1.15E-08
4699	421364.3	3734353	3.19E-05	1.46E-04	3.19E-07	4.37E-06	1.99E-05	4.75E-08	2.68E-06	9.16E-06	1.10E-08
4700	421364.3	3734343	3.06E-05	1.40E-04	3.06E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.79E-06	1.06E-08
4701	421364.2	3734333	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.38E-08	2.47E-06	8.45E-06	1.02E-08
4702	421364.2	3734323	2.83E-05	1.29E-04	2.83E-07	3.87E-06	1.77E-05	4.21E-08	2.38E-06	8.12E-06	9.77E-09
4703	421364.2	3734314	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
4704	421364.1	3734304	2.62E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.54E-06	9.07E-09
4705	421364.1	3734294	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.78E-08	2.13E-06	7.29E-06	8.76E-09
4706	421382.7	3734444	4.53E-05	2.07E-04	4.53E-07	6.21E-06	2.83E-05	6.74E-08	3.81E-06	1.30E-05	1.57E-08
4707	421379	3734453	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
4708	421375.4	3734462	5.03E-05	2.30E-04	5.02E-07	6.89E-06	3.14E-05	7.48E-08	4.23E-06	1.44E-05	1.74E-08
4709	421371.8	3734471	5.30E-05	2.42E-04	5.30E-07	7.26E-06	3.31E-05	7.89E-08	4.46E-06	1.52E-05	1.83E-08
4710	421331.8	3734568	9.32E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.84E-06	2.68E-05	3.22E-08
4711	421328.2	3734577	9.76E-05	4.46E-04	9.76E-07	1.34E-05	6.10E-05	1.45E-07	8.21E-06	2.81E-05	3.37E-08
4712	421324.6	3734586	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.40E-05	1.52E-07	8.62E-06	2.94E-05	3.54E-08
4713	421320.9	3734594	1.07E-04	4.91E-04	1.07E-06	1.47E-05	6.72E-05	1.60E-07	9.04E-06	3.09E-05	3.71E-08
4714	421317.3	3734603	1.13E-04	5.15E-04	1.13E-06	1.54E-05	7.05E-05	1.68E-07	9.48E-06	3.24E-05	3.89E-08
4715	421313.7	3734612	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.39E-05	1.76E-07	9.95E-06	3.40E-05	4.09E-08
4716	421310	3734621	1.24E-04	5.69E-04	1.24E-06	1.70E-05	7.78E-05	1.85E-07	1.05E-05	3.57E-05	4.30E-08

4717	421306.4	3734630	1.31E-04	5.97E-04	1.31E-06	1.79E-05	8.17E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
4718	421302.8	3734639	1.37E-04	6.26E-04	1.37E-06	1.88E-05	8.57E-05	2.04E-07	1.15E-05	3.94E-05	4.73E-08
4719	421281	3734692	1.73E-04	7.90E-04	1.73E-06	2.37E-05	1.08E-04	2.57E-07	1.45E-05	4.97E-05	5.97E-08
4720	421277.4	3734700	1.78E-04	8.15E-04	1.78E-06	2.44E-05	1.11E-04	2.65E-07	1.50E-05	5.12E-05	6.16E-08
4721	421273.7	3734709	1.83E-04	8.39E-04	1.83E-06	2.52E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.34E-08
4722	421270.1	3734718	1.89E-04	8.63E-04	1.89E-06	2.59E-05	1.18E-04	2.81E-07	1.59E-05	5.42E-05	6.52E-08
4723	421266.5	3734727	1.94E-04	8.85E-04	1.94E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.56E-05	6.69E-08
4724	421262.8	3734736	1.98E-04	9.07E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
4725	421259.2	3734745	2.03E-04	9.28E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
4726	421255.6	3734753	2.07E-04	9.48E-04	2.07E-06	2.84E-05	1.30E-04	3.09E-07	1.74E-05	5.96E-05	7.16E-08
4727	421203.2	3734863	2.45E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.03E-05	8.45E-08
4728	421194.4	3734867	2.51E-04	1.15E-03	2.51E-06	3.44E-05	1.57E-04	3.73E-07	2.11E-05	7.20E-05	8.66E-08
4729	421185.5	3734871	2.57E-04	1.17E-03	2.56E-06	3.52E-05	1.60E-04	3.82E-07	2.16E-05	7.37E-05	8.86E-08
4730	421159.1	3734882	2.74E-04	1.25E-03	2.74E-06	3.76E-05	1.71E-04	4.08E-07	2.31E-05	7.88E-05	9.47E-08
4731	421150.3	3734885	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.68E-08
4732	421141.4	3734889	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.22E-05	9.89E-08
4733	421088.5	3734911	3.31E-04	1.51E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.14E-07
4734	421079.7	3734914	3.39E-04	1.55E-03	3.39E-06	4.65E-05	2.12E-04	5.05E-07	2.85E-05	9.75E-05	1.17E-07
4735	421070.9	3734918	3.45E-04	1.58E-03	3.45E-06	4.73E-05	2.16E-04	5.14E-07	2.90E-05	9.91E-05	1.19E-07
4736	421062	3734922	3.50E-04	1.60E-03	3.50E-06	4.80E-05	2.19E-04	5.21E-07	2.95E-05	1.01E-04	1.21E-07
4737	421053.2	3734925	3.55E-04	1.62E-03	3.55E-06	4.86E-05	2.22E-04	5.28E-07	2.99E-05	1.02E-04	1.23E-07
4738	421044.4	3734929	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4739	421035.6	3734933	3.61E-04	1.65E-03	3.61E-06	4.94E-05	2.26E-04	5.37E-07	3.03E-05	1.04E-04	1.25E-07
4740	421026.8	3734936	3.62E-04	1.66E-03	3.62E-06	4.97E-05	2.27E-04	5.39E-07	3.05E-05	1.04E-04	1.25E-07
4741	421017.9	3734940	3.63E-04	1.66E-03	3.63E-06	4.97E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
4742	420991.5	3734951	3.56E-04	1.63E-03	3.56E-06	4.89E-05	2.23E-04	5.31E-07	3.00E-05	1.02E-04	1.23E-07
4743	420982.6	3734955	3.52E-04	1.61E-03	3.52E-06	4.83E-05	2.20E-04	5.25E-07	2.97E-05	1.01E-04	1.22E-07
4744	420973.8	3734958	3.47E-04	1.59E-03	3.47E-06	4.76E-05	2.17E-04	5.17E-07	2.92E-05	9.98E-05	1.20E-07
4745	420965	3734962	3.41E-04	1.56E-03	3.41E-06	4.67E-05	2.13E-04	5.07E-07	2.87E-05	9.79E-05	1.18E-07
4746	420956.2	3734966	3.33E-04	1.52E-03	3.33E-06	4.57E-05	2.08E-04	4.96E-07	2.80E-05	9.57E-05	1.15E-07
4747	420947.4	3734969	3.24E-04	1.48E-03	3.24E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.32E-05	1.12E-07
4748	420938.5	3734973	3.15E-04	1.44E-03	3.14E-06	4.31E-05	1.97E-04	4.68E-07	2.65E-05	9.04E-05	1.09E-07
4749	420929.7	3734977	3.04E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.74E-05	1.05E-07
4750	420920.9	3734980	2.92E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.35E-07	2.46E-05	8.40E-05	1.01E-07
4751	420912.1	3734984	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.68E-08
4752	420903.2	3734988	2.67E-04	1.22E-03	2.67E-06	3.67E-05	1.67E-04	3.98E-07	2.25E-05	7.68E-05	9.24E-08
4753	420894.4	3734991	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
4754	420885.6	3734995	2.42E-04	1.11E-03	2.42E-06	3.32E-05	1.51E-04	3.61E-07	2.04E-05	6.96E-05	8.37E-08
4755	420876.8	3734999	2.30E-04	1.05E-03	2.29E-06	3.15E-05	1.43E-04	3.42E-07	1.93E-05	6.59E-05	7.93E-08
4756	420868	3735002	2.17E-04	9.90E-04	2.16E-06	2.97E-05	1.35E-04	3.22E-07	1.82E-05	6.22E-05	7.48E-08
4757	420859.1	3735006	2.03E-04	9.30E-04	2.03E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.84E-05	7.03E-08
4758	420850.3	3735010	1.90E-04	8.70E-04	1.90E-06	2.61E-05	1.19E-04	2.83E-07	1.60E-05	5.47E-05	6.58E-08
4759	420841.5	3735013	1.78E-04	8.12E-04	1.78E-06	2.43E-05	1.11E-04	2.64E-07	1.49E-05	5.10E-05	6.14E-08
4760	420832.7	3735017	1.65E-04	7.56E-04	1.65E-06	2.27E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.71E-08
4761	420823.9	3735021	1.53E-04	7.01E-04	1.53E-06	2.10E-05	9.59E-05	2.28E-07	1.29E-05	4.41E-05	5.30E-08
4762	420815	3735024	1.42E-04	6.50E-04	1.42E-06	1.95E-05	8.88E-05	2.11E-07	1.20E-05	4.08E-05	4.91E-08
4763	420770.9	3735043	9.57E-05	4.38E-04	9.57E-07	1.31E-05	5.98E-05	1.42E-07	8.05E-06	2.75E-05	3.31E-08
4764	420762.1	3735046	8.80E-05	4.02E-04	8.79E-07	1.21E-05	5.50E-05	1.31E-07	7.40E-06	2.53E-05	3.04E-08
4765	420753.3	3735050	8.09E-05	3.70E-04	8.08E-07	1.11E-05	5.06E-05	1.20E-07	6.80E-06	2.32E-05	2.79E-08
4766	421404.5	3734391	3.36E-05	1.54E-04	3.36E-07	4.61E-06	2.10E-05	5.00E-08	2.83E-06	9.66E-06	1.16E-08
4767	421404.4	3734382	3.20E-05	1.46E-04	3.20E-07	4.39E-06	2.00E-05	4.77E-08	2.69E-06	9.20E-06	1.11E-08
4768	421404.4	3734372	3.05E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
4769	421404.3	3734362	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
4770	421404.3	3734352	2.83E-05	1.30E-04	2.83E-07	3.88E-06	1.77E-05	4.22E-08	2.38E-06	8.14E-06	9.79E-09
4771	421404.3	3734343	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
4772	421404.2	3734333	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.22E-06	7.57E-06	9.10E-09
4773	421404.2	3734323	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.77E-08	2.13E-06	7.29E-06	8.76E-09
4774	421404.2	3734314	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.64E-08	2.06E-06	7.02E-06	8.44E-09
4775	421404.1	3734304	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09

4776	421404.1	3734294	2.28E-05	1.04E-04	2.28E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.56E-06	7.89E-09
4777	421422.6	3734444	4.01E-05	1.83E-04	4.01E-07	5.50E-06	2.51E-05	5.97E-08	3.37E-06	1.15E-05	1.39E-08
4778	421418.9	3734453	4.21E-05	1.92E-04	4.21E-07	5.77E-06	2.63E-05	6.27E-08	3.54E-06	1.21E-05	1.45E-08
4779	421415.3	3734462	4.42E-05	2.02E-04	4.42E-07	6.06E-06	2.76E-05	6.58E-08	3.72E-06	1.27E-05	1.53E-08
4780	421411.6	3734471	4.65E-05	2.13E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
4781	421408	3734480	4.88E-05	2.23E-04	4.88E-07	6.69E-06	3.05E-05	7.27E-08	4.11E-06	1.40E-05	1.69E-08
4782	421404.4	3734489	5.12E-05	2.34E-04	5.12E-07	7.02E-06	3.20E-05	7.63E-08	4.31E-06	1.47E-05	1.77E-08
4783	421400.7	3734498	5.39E-05	2.46E-04	5.38E-07	7.38E-06	3.37E-05	8.02E-08	4.53E-06	1.55E-05	1.86E-08
4784	421367.9	3734577	8.26E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.95E-06	2.37E-05	2.86E-08
4785	421364.3	3734586	8.66E-05	3.96E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
4786	421360.6	3734595	9.08E-05	4.15E-04	9.08E-07	1.24E-05	5.68E-05	1.35E-07	7.64E-06	2.61E-05	3.14E-08
4787	421357	3734604	9.52E-05	4.35E-04	9.51E-07	1.30E-05	5.95E-05	1.42E-07	8.01E-06	2.73E-05	3.29E-08
4788	421353.3	3734613	9.97E-05	4.56E-04	9.97E-07	1.37E-05	6.23E-05	1.48E-07	8.39E-06	2.86E-05	3.45E-08
4789	421349.7	3734622	1.05E-04	4.78E-04	1.04E-06	1.43E-05	6.53E-05	1.56E-07	8.79E-06	3.00E-05	3.61E-08
4790	421346	3734631	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.14E-05	3.78E-08
4791	421342.4	3734639	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.16E-05	1.70E-07	9.63E-06	3.29E-05	3.96E-08
4792	421338.8	3734648	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.47E-05	1.78E-07	1.00E-05	3.43E-05	4.13E-08
4793	421335.1	3734657	1.25E-04	5.69E-04	1.24E-06	1.71E-05	7.78E-05	1.85E-07	1.05E-05	3.58E-05	4.30E-08
4794	421331.5	3734666	1.30E-04	5.93E-04	1.30E-06	1.78E-05	8.11E-05	1.93E-07	1.09E-05	3.73E-05	4.48E-08
4795	421327.8	3734675	1.35E-04	6.17E-04	1.35E-06	1.85E-05	8.44E-05	2.01E-07	1.14E-05	3.88E-05	4.66E-08
4796	421324.2	3734684	1.40E-04	6.40E-04	1.40E-06	1.92E-05	8.76E-05	2.08E-07	1.18E-05	4.02E-05	4.84E-08
4797	421320.5	3734693	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.07E-05	2.16E-07	1.22E-05	4.17E-05	5.01E-08
4798	421316.9	3734702	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
4799	421313.2	3734710	1.55E-04	7.07E-04	1.54E-06	2.12E-05	9.66E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
4800	421309.6	3734719	1.59E-04	7.27E-04	1.59E-06	2.18E-05	9.94E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
4801	421306	3734728	1.63E-04	7.47E-04	1.63E-06	2.24E-05	1.02E-04	2.43E-07	1.37E-05	4.70E-05	5.65E-08
4802	421302.3	3734737	1.68E-04	7.66E-04	1.67E-06	2.30E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.79E-08
4803	421231.5	3734891	2.13E-04	9.75E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.13E-05	7.37E-08
4804	421222.6	3734895	2.19E-04	9.99E-04	2.18E-06	3.00E-05	1.37E-04	3.25E-07	1.84E-05	6.28E-05	7.55E-08
4805	421213.8	3734899	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.74E-08
4806	421187.2	3734910	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.88E-05	8.27E-08
4807	421178.4	3734913	2.44E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.02E-05	8.45E-08
4808	421169.5	3734917	2.49E-04	1.14E-03	2.49E-06	3.42E-05	1.56E-04	3.71E-07	2.10E-05	7.17E-05	8.62E-08
4809	421134.1	3734932	2.71E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.79E-05	9.37E-08
4810	421125.2	3734936	2.77E-04	1.27E-03	2.77E-06	3.80E-05	1.73E-04	4.13E-07	2.33E-05	7.97E-05	9.58E-08
4811	421089.8	3734950	2.98E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.57E-05	1.03E-07
4812	421081	3734954	3.02E-04	1.38E-03	3.02E-06	4.14E-05	1.89E-04	4.50E-07	2.54E-05	8.69E-05	1.04E-07
4813	421072.1	3734958	3.05E-04	1.40E-03	3.05E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.77E-05	1.06E-07
4814	421063.2	3734961	3.08E-04	1.41E-03	3.07E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
4815	421054.4	3734965	3.09E-04	1.41E-03	3.09E-06	4.24E-05	1.93E-04	4.60E-07	2.60E-05	8.88E-05	1.07E-07
4816	421045.5	3734969	3.10E-04	1.42E-03	3.10E-06	4.25E-05	1.94E-04	4.62E-07	2.61E-05	8.91E-05	1.07E-07
4817	421036.7	3734972	3.11E-04	1.42E-03	3.11E-06	4.26E-05	1.94E-04	4.62E-07	2.61E-05	8.93E-05	1.07E-07
4818	421027.8	3734976	3.10E-04	1.42E-03	3.10E-06	4.25E-05	1.94E-04	4.62E-07	2.61E-05	8.92E-05	1.07E-07
4819	421019	3734980	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
4820	420992.4	3734991	2.99E-04	1.37E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4821	420983.5	3734994	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
4822	420974.7	3734998	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4823	420965.8	3735002	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.69E-08
4824	420957	3735005	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.06E-07	2.30E-05	7.84E-05	9.43E-08
4825	420948.1	3735009	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
4826	420939.3	3735013	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.33E-05	8.82E-08
4827	420930.4	3735016	2.46E-04	1.12E-03	2.45E-06	3.37E-05	1.54E-04	3.66E-07	2.07E-05	7.06E-05	8.49E-08
4828	420921.6	3735020	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.47E-04	3.51E-07	1.98E-05	6.77E-05	8.14E-08
4829	420868.4	3735042	1.72E-04	7.88E-04	1.72E-06	2.36E-05	1.08E-04	2.57E-07	1.45E-05	4.96E-05	5.96E-08
4830	420859.6	3735046	1.62E-04	7.39E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.64E-05	5.59E-08
4831	420850.7	3735050	1.51E-04	6.91E-04	1.51E-06	2.07E-05	9.44E-05	2.25E-07	1.27E-05	4.34E-05	5.22E-08
4832	420841.9	3735053	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.81E-05	2.10E-07	1.18E-05	4.05E-05	4.87E-08
4833	420833	3735057	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.21E-05	1.95E-07	1.10E-05	3.77E-05	4.54E-08
4834	420779.9	3735079	8.38E-05	3.83E-04	8.37E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.89E-08

4835	420771	3735083	7.72E-05	3.53E-04	7.72E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4836	420762.2	3735086	7.12E-05	3.25E-04	7.11E-07	9.76E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
4837	421444.5	3734391	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
4838	421444.4	3734381	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.82E-05	4.34E-08	2.45E-06	8.38E-06	1.01E-08
4839	421444.4	3734372	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.05E-06	9.68E-09
4840	421444.3	3734362	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
4841	421444.3	3734352	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.86E-08	2.18E-06	7.45E-06	8.95E-09
4842	421444.3	3734343	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
4843	421444.2	3734333	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.58E-08	2.02E-06	6.90E-06	8.30E-09
4844	421444.2	3734323	2.32E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.45E-08	1.95E-06	6.65E-06	8.00E-09
4845	421444.2	3734313	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.40E-05	3.32E-08	1.88E-06	6.42E-06	7.72E-09
4846	421444.1	3734304	2.16E-05	9.89E-05	2.16E-07	2.97E-06	1.35E-05	3.22E-08	1.82E-06	6.22E-06	7.48E-09
4847	421444.1	3734294	2.10E-05	9.61E-05	2.10E-07	2.88E-06	1.31E-05	3.13E-08	1.77E-06	6.04E-06	7.26E-09
4848	420761.4	3734252	1.36E-04	6.23E-04	1.36E-06	1.87E-05	8.52E-05	2.03E-07	1.15E-05	3.91E-05	4.71E-08
4849	420763.1	3734242	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.04E-05	3.54E-05	4.25E-08
4850	420776.8	3734250	1.34E-04	6.11E-04	1.34E-06	1.83E-05	8.35E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
4851	420764.9	3734232	1.12E-04	5.11E-04	1.12E-06	1.53E-05	6.99E-05	1.66E-07	9.40E-06	3.21E-05	3.86E-08
4852	420778.3	3734240	1.21E-04	5.52E-04	1.21E-06	1.65E-05	7.55E-05	1.80E-07	1.02E-05	3.47E-05	4.17E-08
4853	420791.6	3734248	1.30E-04	5.92E-04	1.30E-06	1.78E-05	8.10E-05	1.93E-07	1.09E-05	3.72E-05	4.48E-08
4854	420800.9	3734260	1.44E-04	6.57E-04	1.44E-06	1.97E-05	8.98E-05	2.14E-07	1.21E-05	4.13E-05	4.96E-08
4855	420767.9	3734223	1.03E-04	4.69E-04	1.02E-06	1.41E-05	6.41E-05	1.53E-07	8.63E-06	2.95E-05	3.54E-08
4856	420783.2	3734232	1.12E-04	5.10E-04	1.12E-06	1.53E-05	6.97E-05	1.66E-07	9.39E-06	3.21E-05	3.86E-08
4857	420798.4	3734241	1.20E-04	5.51E-04	1.20E-06	1.65E-05	7.53E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
4858	420809	3734254	1.35E-04	6.15E-04	1.35E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
4859	420769.7	3734213	9.37E-05	4.29E-04	9.37E-07	1.29E-05	5.86E-05	1.40E-07	7.89E-06	2.69E-05	3.24E-08
4860	420784.4	3734222	1.01E-04	4.64E-04	1.01E-06	1.39E-05	6.34E-05	1.51E-07	8.54E-06	2.92E-05	3.51E-08
4861	420799.1	3734231	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.82E-05	1.62E-07	9.18E-06	3.13E-05	3.77E-08
4862	420771.5	3734203	8.60E-05	3.93E-04	8.60E-07	1.18E-05	5.38E-05	1.28E-07	7.24E-06	2.47E-05	2.97E-08
4863	420785.8	3734212	9.27E-05	4.24E-04	9.26E-07	1.27E-05	5.80E-05	1.38E-07	7.80E-06	2.66E-05	3.20E-08
4864	420800.1	3734220	9.93E-05	4.54E-04	9.93E-07	1.36E-05	6.21E-05	1.48E-07	8.36E-06	2.85E-05	3.43E-08
4865	420814.4	3734229	1.06E-04	4.83E-04	1.06E-06	1.45E-05	6.61E-05	1.57E-07	8.89E-06	3.04E-05	3.65E-08
4866	420776	3734184	7.35E-05	3.36E-04	7.34E-07	1.01E-05	4.59E-05	1.09E-07	6.18E-06	2.11E-05	2.54E-08
4867	420791.3	3734193	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.73E-08
4868	420806.5	3734202	8.48E-05	3.88E-04	8.47E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
4869	420821.8	3734211	9.03E-05	4.13E-04	9.03E-07	1.24E-05	5.65E-05	1.34E-07	7.60E-06	2.60E-05	3.12E-08
4870	420846	3734246	1.16E-04	5.30E-04	1.16E-06	1.59E-05	7.25E-05	1.73E-07	9.75E-06	3.33E-05	4.01E-08
4871	420794.3	3734173	6.75E-05	3.09E-04	6.74E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
4872	420808.8	3734182	7.19E-05	3.29E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.05E-06	2.07E-05	2.48E-08
4873	420823.4	3734190	7.62E-05	3.49E-04	7.62E-07	1.04E-05	4.77E-05	1.13E-07	6.41E-06	2.19E-05	2.63E-08
4874	420855.4	3734216	8.93E-05	4.08E-04	8.92E-07	1.22E-05	5.58E-05	1.33E-07	7.51E-06	2.56E-05	3.08E-08
4875	420861.1	3734232	1.00E-04	4.57E-04	9.99E-07	1.37E-05	6.25E-05	1.49E-07	8.41E-06	2.87E-05	3.46E-08
4876	420866.9	3734248	1.12E-04	5.12E-04	1.12E-06	1.53E-05	7.00E-05	1.67E-07	9.42E-06	3.22E-05	3.87E-08
4877	420784.1	3734145	5.49E-05	2.51E-04	5.49E-07	7.53E-06	3.43E-05	8.18E-08	4.62E-06	1.58E-05	1.90E-08
4878	420829.9	3734172	6.63E-05	3.03E-04	6.62E-07	9.08E-06	4.14E-05	9.86E-08	5.57E-06	1.90E-05	2.29E-08
4879	420860.4	3734191	7.33E-05	3.35E-04	7.32E-07	1.00E-05	4.58E-05	1.09E-07	6.17E-06	2.11E-05	2.53E-08
4880	420871	3734204	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.73E-08
4881	420874	3734212	8.36E-05	3.82E-04	8.36E-07	1.15E-05	5.23E-05	1.24E-07	7.03E-06	2.40E-05	2.89E-08
4882	420880	3734229	9.33E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.85E-06	2.68E-05	3.22E-08
4883	420886	3734246	1.04E-04	4.75E-04	1.04E-06	1.42E-05	6.49E-05	1.55E-07	8.74E-06	2.98E-05	3.59E-08
4884	420889	3734254	1.09E-04	5.01E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.15E-05	3.78E-08
4885	420787.9	3734125	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.16E-08	4.05E-06	1.38E-05	1.66E-08
4886	420802.6	3734134	5.11E-05	2.34E-04	5.11E-07	7.01E-06	3.20E-05	7.61E-08	4.30E-06	1.47E-05	1.77E-08
4887	420817.3	3734143	5.42E-05	2.48E-04	5.41E-07	7.42E-06	3.39E-05	8.06E-08	4.56E-06	1.56E-05	1.87E-08
4888	420876.1	3734178	6.56E-05	3.00E-04	6.56E-07	9.00E-06	4.10E-05	9.77E-08	5.52E-06	1.89E-05	2.27E-08
4889	420886.4	3734191	7.02E-05	3.21E-04	7.02E-07	9.63E-06	4.39E-05	1.05E-07	5.91E-06	2.02E-05	2.43E-08
4890	420892.2	3734207	7.75E-05	3.54E-04	7.74E-07	1.06E-05	4.84E-05	1.15E-07	6.52E-06	2.23E-05	2.68E-08
4891	420898	3734223	8.53E-05	3.90E-04	8.53E-07	1.17E-05	5.33E-05	1.27E-07	7.18E-06	2.45E-05	2.95E-08
4892	420903.8	3734239	9.39E-05	4.29E-04	9.38E-07	1.29E-05	5.87E-05	1.40E-07	7.90E-06	2.70E-05	3.24E-08
4893	420909.6	3734256	1.03E-04	4.71E-04	1.03E-06	1.41E-05	6.43E-05	1.53E-07	8.66E-06	2.96E-05	3.56E-08

4894	420792.2	3734105	4.26E-05	1.95E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
4895	420807.5	3734115	4.52E-05	2.07E-04	4.52E-07	6.19E-06	2.82E-05	6.72E-08	3.80E-06	1.30E-05	1.56E-08
4896	420822.7	3734124	4.78E-05	2.19E-04	4.78E-07	6.55E-06	2.99E-05	7.12E-08	4.02E-06	1.37E-05	1.65E-08
4897	420838	3734133	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.51E-08	4.24E-06	1.45E-05	1.74E-08
4898	420883.7	3734161	5.79E-05	2.65E-04	5.78E-07	7.93E-06	3.62E-05	8.61E-08	4.87E-06	1.66E-05	2.00E-08
4899	420902	3734178	6.29E-05	2.88E-04	6.29E-07	8.62E-06	3.93E-05	9.36E-08	5.29E-06	1.81E-05	2.17E-08
4900	420908	3734195	6.92E-05	3.16E-04	6.91E-07	9.48E-06	4.32E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
4901	420911	3734204	7.25E-05	3.31E-04	7.24E-07	9.94E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.50E-08
4902	420917	3734220	7.95E-05	3.63E-04	7.94E-07	1.09E-05	4.97E-05	1.18E-07	6.69E-06	2.28E-05	2.75E-08
4903	420923	3734237	8.69E-05	3.97E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.31E-06	2.50E-05	3.00E-08
4904	420929	3734254	9.47E-05	4.33E-04	9.47E-07	1.30E-05	5.92E-05	1.41E-07	7.97E-06	2.72E-05	3.27E-08
4905	420796.5	3734086	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
4906	420804.4	3734091	3.90E-05	1.78E-04	3.90E-07	5.35E-06	2.44E-05	5.81E-08	3.28E-06	1.12E-05	1.35E-08
4907	420812.2	3734096	4.02E-05	1.84E-04	4.01E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
4908	420820.1	3734100	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
4909	420828	3734105	4.24E-05	1.94E-04	4.24E-07	5.82E-06	2.65E-05	6.32E-08	3.57E-06	1.22E-05	1.47E-08
4910	420835.8	3734110	4.36E-05	1.99E-04	4.36E-07	5.98E-06	2.73E-05	6.49E-08	3.67E-06	1.25E-05	1.51E-08
4911	420843.7	3734115	4.47E-05	2.05E-04	4.47E-07	6.13E-06	2.80E-05	6.66E-08	3.76E-06	1.29E-05	1.55E-08
4912	420906.6	3734153	5.31E-05	2.43E-04	5.31E-07	7.28E-06	3.32E-05	7.91E-08	4.47E-06	1.53E-05	1.84E-08
4913	420917.5	3734166	5.66E-05	2.59E-04	5.65E-07	7.76E-06	3.54E-05	8.42E-08	4.76E-06	1.63E-05	1.96E-08
4914	420920.6	3734175	5.93E-05	2.71E-04	5.92E-07	8.12E-06	3.70E-05	8.82E-08	4.98E-06	1.70E-05	2.05E-08
4915	420923.7	3734183	6.20E-05	2.84E-04	6.20E-07	8.50E-06	3.88E-05	9.23E-08	5.22E-06	1.78E-05	2.14E-08
4916	420926.8	3734192	6.49E-05	2.97E-04	6.49E-07	8.90E-06	4.06E-05	9.66E-08	5.46E-06	1.86E-05	2.24E-08
4917	420930	3734201	6.79E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.34E-08
4918	420933.1	3734209	7.09E-05	3.24E-04	7.09E-07	9.72E-06	4.43E-05	1.06E-07	5.97E-06	2.04E-05	2.45E-08
4919	420936.2	3734218	7.40E-05	3.39E-04	7.40E-07	1.01E-05	4.63E-05	1.10E-07	6.23E-06	2.13E-05	2.56E-08
4920	420939.3	3734227	7.72E-05	3.53E-04	7.72E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4921	420942.4	3734235	8.05E-05	3.68E-04	8.05E-07	1.10E-05	5.03E-05	1.20E-07	6.77E-06	2.31E-05	2.78E-08
4922	420945.5	3734244	8.38E-05	3.83E-04	8.38E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.90E-08
4923	420948.6	3734253	8.72E-05	3.99E-04	8.72E-07	1.20E-05	5.45E-05	1.30E-07	7.34E-06	2.51E-05	3.01E-08
4924	420961	3734287	1.01E-04	4.63E-04	1.01E-06	1.39E-05	6.33E-05	1.51E-07	8.52E-06	2.91E-05	3.50E-08
4925	420808	3734071	3.48E-05	1.59E-04	3.48E-07	4.78E-06	2.18E-05	5.19E-08	2.93E-06	1.00E-05	1.20E-08
4926	420823.2	3734080	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
4927	420838.4	3734089	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
4928	420853.7	3734099	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
4929	420914.7	3734136	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.97E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
4930	420932.9	3734153	5.10E-05	2.33E-04	5.10E-07	6.99E-06	3.19E-05	7.59E-08	4.29E-06	1.47E-05	1.76E-08
4931	420938.9	3734170	5.55E-05	2.54E-04	5.54E-07	7.60E-06	3.47E-05	8.26E-08	4.67E-06	1.59E-05	1.92E-08
4932	420945	3734187	6.02E-05	2.75E-04	6.02E-07	8.25E-06	3.76E-05	8.96E-08	5.06E-06	1.73E-05	2.08E-08
4933	420951	3734204	6.52E-05	2.98E-04	6.51E-07	8.93E-06	4.07E-05	9.70E-08	5.48E-06	1.87E-05	2.25E-08
4934	420954	3734212	6.77E-05	3.10E-04	6.77E-07	9.29E-06	4.23E-05	1.01E-07	5.70E-06	1.95E-05	2.34E-08
4935	420960	3734229	7.30E-05	3.34E-04	7.29E-07	1.00E-05	4.56E-05	1.09E-07	6.14E-06	2.10E-05	2.52E-08
4936	420966	3734245	7.84E-05	3.58E-04	7.83E-07	1.07E-05	4.90E-05	1.17E-07	6.59E-06	2.25E-05	2.71E-08
4937	420812.4	3734052	3.14E-05	1.43E-04	3.13E-07	4.30E-06	1.96E-05	4.67E-08	2.64E-06	9.01E-06	1.08E-08
4938	420820.2	3734056	3.22E-05	1.47E-04	3.22E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.25E-06	1.11E-08
4939	420828.1	3734061	3.30E-05	1.51E-04	3.30E-07	4.52E-06	2.06E-05	4.91E-08	2.78E-06	9.48E-06	1.14E-08
4940	420835.9	3734066	3.38E-05	1.55E-04	3.38E-07	4.64E-06	2.12E-05	5.04E-08	2.85E-06	9.72E-06	1.17E-08
4941	420843.7	3734071	3.47E-05	1.59E-04	3.46E-07	4.75E-06	2.17E-05	5.16E-08	2.92E-06	9.96E-06	1.20E-08
4942	420851.5	3734075	3.55E-05	1.62E-04	3.55E-07	4.87E-06	2.22E-05	5.28E-08	2.99E-06	1.02E-05	1.23E-08
4943	420906.3	3734108	4.11E-05	1.88E-04	4.11E-07	5.63E-06	2.57E-05	6.12E-08	3.46E-06	1.18E-05	1.42E-08
4944	420914.1	3734113	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.62E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
4945	420921.9	3734118	4.25E-05	1.94E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
4946	420929.8	3734123	4.32E-05	1.97E-04	4.32E-07	5.92E-06	2.70E-05	6.43E-08	3.63E-06	1.24E-05	1.49E-08
4947	420937.6	3734127	4.38E-05	2.00E-04	4.38E-07	6.00E-06	2.74E-05	6.52E-08	3.69E-06	1.26E-05	1.51E-08
4948	420948.5	3734141	4.63E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.89E-08	3.89E-06	1.33E-05	1.60E-08
4949	420951.6	3734149	4.82E-05	2.20E-04	4.82E-07	6.61E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.67E-08
4950	420954.7	3734158	5.02E-05	2.29E-04	5.01E-07	6.88E-06	3.14E-05	7.47E-08	4.22E-06	1.44E-05	1.73E-08
4951	420957.8	3734167	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4952	420960.8	3734175	5.43E-05	2.48E-04	5.43E-07	7.44E-06	3.40E-05	8.08E-08	4.57E-06	1.56E-05	1.88E-08

4953	420963.9	3734184	5.64E-05	2.58E-04	5.64E-07	7.74E-06	3.53E-05	8.40E-08	4.75E-06	1.62E-05	1.95E-08
4954	420967	3734192	5.86E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.93E-06	1.68E-05	2.03E-08
4955	420970.1	3734201	6.08E-05	2.78E-04	6.08E-07	8.34E-06	3.80E-05	9.05E-08	5.12E-06	1.75E-05	2.10E-08
4956	420973.2	3734210	6.31E-05	2.88E-04	6.30E-07	8.64E-06	3.94E-05	9.39E-08	5.30E-06	1.81E-05	2.18E-08
4957	420976.3	3734218	6.53E-05	2.99E-04	6.53E-07	8.95E-06	4.08E-05	9.72E-08	5.50E-06	1.88E-05	2.26E-08
4958	420979.4	3734227	6.76E-05	3.09E-04	6.76E-07	9.27E-06	4.23E-05	1.01E-07	5.69E-06	1.94E-05	2.34E-08
4959	420982.5	3734235	6.99E-05	3.20E-04	6.99E-07	9.58E-06	4.37E-05	1.04E-07	5.88E-06	2.01E-05	2.42E-08
4960	420985.6	3734244	7.22E-05	3.30E-04	7.22E-07	9.90E-06	4.51E-05	1.07E-07	6.07E-06	2.07E-05	2.49E-08
4961	420988.6	3734253	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.58E-08
4962	421001	3734287	8.44E-05	3.86E-04	8.43E-07	1.16E-05	5.28E-05	1.26E-07	7.10E-06	2.42E-05	2.92E-08
4963	420816.1	3734032	2.83E-05	1.29E-04	2.83E-07	3.88E-06	1.77E-05	4.21E-08	2.38E-06	8.13E-06	9.78E-09
4964	420831.3	3734041	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.53E-06	1.03E-08
4965	420846.5	3734050	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.61E-06	8.93E-06	1.07E-08
4966	420907.5	3734087	3.66E-05	1.67E-04	3.65E-07	5.01E-06	2.29E-05	5.44E-08	3.08E-06	1.05E-05	1.26E-08
4967	420922.8	3734096	3.78E-05	1.73E-04	3.78E-07	5.19E-06	2.37E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
4968	420938	3734106	3.90E-05	1.78E-04	3.90E-07	5.35E-06	2.44E-05	5.81E-08	3.28E-06	1.12E-05	1.35E-08
4969	420953.3	3734115	4.00E-05	1.83E-04	4.00E-07	5.49E-06	2.50E-05	5.96E-08	3.37E-06	1.15E-05	1.38E-08
4970	420963.9	3734128	4.20E-05	1.92E-04	4.20E-07	5.76E-06	2.63E-05	6.26E-08	3.54E-06	1.21E-05	1.45E-08
4971	420966.9	3734136	4.37E-05	2.00E-04	4.36E-07	5.98E-06	2.73E-05	6.50E-08	3.67E-06	1.25E-05	1.51E-08
4972	420969.9	3734145	4.53E-05	2.07E-04	4.53E-07	6.21E-06	2.83E-05	6.74E-08	3.81E-06	1.30E-05	1.57E-08
4973	420975.9	3734161	4.87E-05	2.23E-04	4.87E-07	6.68E-06	3.05E-05	7.25E-08	4.10E-06	1.40E-05	1.68E-08
4974	420982	3734178	5.23E-05	2.39E-04	5.22E-07	7.17E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4975	420988	3734195	5.59E-05	2.56E-04	5.59E-07	7.67E-06	3.50E-05	8.32E-08	4.70E-06	1.61E-05	1.93E-08
4976	420994	3734212	5.96E-05	2.73E-04	5.96E-07	8.17E-06	3.73E-05	8.88E-08	5.02E-06	1.71E-05	2.06E-08
4977	420997	3734220	6.15E-05	2.81E-04	6.15E-07	8.43E-06	3.85E-05	9.16E-08	5.17E-06	1.77E-05	2.13E-08
4978	421003	3734237	6.52E-05	2.98E-04	6.52E-07	8.94E-06	4.08E-05	9.71E-08	5.49E-06	1.87E-05	2.25E-08
4979	421021.1	3734287	7.73E-05	3.53E-04	7.73E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4980	420820.5	3734012	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
4981	420828.3	3734017	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.21E-06	7.56E-06	9.10E-09
4982	420836	3734022	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
4983	420843.8	3734027	2.76E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.92E-06	9.52E-09
4984	420851.6	3734031	2.82E-05	1.29E-04	2.82E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.10E-06	9.74E-09
4985	420859.4	3734036	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.42E-06	8.28E-06	9.95E-09
4986	420898.4	3734060	3.19E-05	1.46E-04	3.19E-07	4.37E-06	1.99E-05	4.75E-08	2.68E-06	9.16E-06	1.10E-08
4987	420906.2	3734064	3.25E-05	1.49E-04	3.25E-07	4.45E-06	2.03E-05	4.84E-08	2.73E-06	9.34E-06	1.12E-08
4988	420914	3734069	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.78E-06	9.51E-06	1.14E-08
4989	420921.8	3734074	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.01E-08	2.83E-06	9.68E-06	1.16E-08
4990	420929.6	3734078	3.43E-05	1.57E-04	3.42E-07	4.70E-06	2.14E-05	5.10E-08	2.88E-06	9.84E-06	1.18E-08
4991	420937.4	3734083	3.48E-05	1.59E-04	3.48E-07	4.77E-06	2.18E-05	5.18E-08	2.93E-06	1.00E-05	1.20E-08
4992	420945.2	3734088	3.53E-05	1.61E-04	3.53E-07	4.84E-06	2.21E-05	5.26E-08	2.97E-06	1.01E-05	1.22E-08
4993	420953	3734093	3.58E-05	1.64E-04	3.58E-07	4.91E-06	2.24E-05	5.33E-08	3.01E-06	1.03E-05	1.24E-08
4994	420960.8	3734097	3.63E-05	1.66E-04	3.62E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
4995	420968.6	3734102	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
4996	420979.4	3734115	3.85E-05	1.76E-04	3.84E-07	5.27E-06	2.40E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
4997	420982.5	3734124	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.49E-05	5.94E-08	3.35E-06	1.15E-05	1.38E-08
4998	420985.6	3734133	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.48E-06	1.19E-05	1.43E-08
4999	420988.7	3734141	4.28E-05	1.96E-04	4.28E-07	5.87E-06	2.68E-05	6.37E-08	3.60E-06	1.23E-05	1.48E-08
5000	420991.8	3734150	4.43E-05	2.03E-04	4.43E-07	6.07E-06	2.77E-05	6.60E-08	3.73E-06	1.27E-05	1.53E-08
5001	420994.8	3734158	4.59E-05	2.10E-04	4.58E-07	6.29E-06	2.87E-05	6.83E-08	3.86E-06	1.32E-05	1.58E-08
5002	420997.9	3734167	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.96E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
5003	421001	3734175	4.90E-05	2.24E-04	4.90E-07	6.71E-06	3.06E-05	7.29E-08	4.12E-06	1.41E-05	1.69E-08
5004	421004.1	3734184	5.06E-05	2.31E-04	5.05E-07	6.93E-06	3.16E-05	7.53E-08	4.25E-06	1.45E-05	1.75E-08
5005	421007.2	3734193	5.22E-05	2.39E-04	5.21E-07	7.15E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
5006	421010.2	3734201	5.38E-05	2.46E-04	5.38E-07	7.37E-06	3.36E-05	8.01E-08	4.52E-06	1.55E-05	1.86E-08
5007	421013.3	3734210	5.54E-05	2.53E-04	5.54E-07	7.59E-06	3.46E-05	8.25E-08	4.66E-06	1.59E-05	1.91E-08
5008	421016.4	3734218	5.70E-05	2.61E-04	5.70E-07	7.82E-06	3.57E-05	8.49E-08	4.80E-06	1.64E-05	1.97E-08
5009	421019.5	3734227	5.87E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.93E-06	1.69E-05	2.03E-08
5010	421022.5	3734236	6.03E-05	2.76E-04	6.02E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
5011	421025.6	3734244	6.19E-05	2.83E-04	6.19E-07	8.48E-06	3.87E-05	9.21E-08	5.21E-06	1.78E-05	2.14E-08

5012	420828.5	3733973	2.15E-05	9.82E-05	2.15E-07	2.94E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
5013	420844.1	3733983	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.44E-06	7.74E-09
5014	420851.8	3733987	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
5015	420859.6	3733992	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.48E-08	1.96E-06	6.71E-06	8.07E-09
5016	420906.3	3734020	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.20E-06	7.53E-06	9.05E-09
5017	420914	3734025	2.67E-05	1.22E-04	2.67E-07	3.66E-06	1.67E-05	3.97E-08	2.24E-06	7.67E-06	9.22E-09
5018	420921.8	3734030	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.80E-06	9.38E-09
5019	420929.6	3734034	2.76E-05	1.26E-04	2.76E-07	3.79E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
5020	420945.1	3734044	2.85E-05	1.30E-04	2.85E-07	3.91E-06	1.78E-05	4.25E-08	2.40E-06	8.20E-06	9.86E-09
5021	420952.9	3734049	2.90E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
5022	420960.7	3734053	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
5023	420968.5	3734058	2.98E-05	1.36E-04	2.98E-07	4.08E-06	1.86E-05	4.44E-08	2.51E-06	8.56E-06	1.03E-08
5024	420976.2	3734063	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.49E-08	2.54E-06	8.67E-06	1.04E-08
5025	420991.8	3734072	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
5026	420999.6	3734077	3.12E-05	1.43E-04	3.12E-07	4.28E-06	1.95E-05	4.65E-08	2.63E-06	8.97E-06	1.08E-08
5027	421010.4	3734090	3.25E-05	1.49E-04	3.25E-07	4.46E-06	2.03E-05	4.84E-08	2.73E-06	9.34E-06	1.12E-08
5028	421013.5	3734099	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.64E-06	1.16E-08
5029	421016.6	3734107	3.46E-05	1.58E-04	3.46E-07	4.75E-06	2.16E-05	5.15E-08	2.91E-06	9.95E-06	1.20E-08
5030	421019.6	3734116	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.00E-06	1.03E-05	1.23E-08
5031	421022.7	3734124	3.68E-05	1.68E-04	3.68E-07	5.05E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
5032	421025.8	3734133	3.79E-05	1.74E-04	3.79E-07	5.20E-06	2.37E-05	5.65E-08	3.19E-06	1.09E-05	1.31E-08
5033	421028.8	3734141	3.91E-05	1.79E-04	3.91E-07	5.36E-06	2.44E-05	5.82E-08	3.29E-06	1.12E-05	1.35E-08
5034	421031.9	3734150	4.02E-05	1.84E-04	4.02E-07	5.52E-06	2.52E-05	5.99E-08	3.38E-06	1.16E-05	1.39E-08
5035	421035	3734159	4.14E-05	1.89E-04	4.14E-07	5.67E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
5036	421038	3734167	4.25E-05	1.94E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
5037	421041.1	3734176	4.37E-05	2.00E-04	4.37E-07	5.99E-06	2.73E-05	6.51E-08	3.68E-06	1.26E-05	1.51E-08
5038	421044.2	3734184	4.49E-05	2.05E-04	4.48E-07	6.15E-06	2.80E-05	6.68E-08	3.77E-06	1.29E-05	1.55E-08
5039	421047.3	3734193	4.60E-05	2.10E-04	4.60E-07	6.31E-06	2.88E-05	6.85E-08	3.87E-06	1.32E-05	1.59E-08
5040	421050.3	3734201	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.02E-08	3.97E-06	1.36E-05	1.63E-08
5041	421053.4	3734210	4.83E-05	2.21E-04	4.83E-07	6.63E-06	3.02E-05	7.19E-08	4.07E-06	1.39E-05	1.67E-08
5042	421056.5	3734218	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.09E-05	7.37E-08	4.16E-06	1.42E-05	1.71E-08
5043	421059.5	3734227	5.07E-05	2.32E-04	5.06E-07	6.95E-06	3.17E-05	7.54E-08	4.26E-06	1.46E-05	1.75E-08
5044	421062.6	3734236	5.18E-05	2.37E-04	5.18E-07	7.11E-06	3.24E-05	7.72E-08	4.36E-06	1.49E-05	1.79E-08
5045	421065.7	3734244	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
5046	420794.9	3733960	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
5047	420921.9	3733986	2.23E-05	1.02E-04	2.23E-07	3.05E-06	1.39E-05	3.31E-08	1.87E-06	6.40E-06	7.69E-09
5048	420937.4	3733995	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.61E-06	7.95E-09
5049	420945.2	3734000	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.72E-06	8.08E-09
5050	420953	3734004	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
5051	420960.7	3734009	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
5052	420976.2	3734019	2.48E-05	1.14E-04	2.48E-07	3.40E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.58E-09
5053	420984	3734023	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.57E-05	3.75E-08	2.12E-06	7.23E-06	8.70E-09
5054	420991.8	3734028	2.55E-05	1.17E-04	2.55E-07	3.50E-06	1.59E-05	3.80E-08	2.15E-06	7.33E-06	8.81E-09
5055	420999.5	3734033	2.58E-05	1.18E-04	2.58E-07	3.54E-06	1.61E-05	3.84E-08	2.17E-06	7.42E-06	8.92E-09
5056	421015	3734042	2.64E-05	1.21E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.22E-06	7.57E-06	9.11E-09
5057	421022.8	3734047	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.19E-09
5058	421030.6	3734051	2.68E-05	1.23E-04	2.68E-07	3.68E-06	1.68E-05	3.99E-08	2.26E-06	7.71E-06	9.27E-09
5059	421041.4	3734065	2.78E-05	1.27E-04	2.78E-07	3.81E-06	1.74E-05	4.14E-08	2.34E-06	8.00E-06	9.62E-09
5060	421044.4	3734073	2.86E-05	1.31E-04	2.86E-07	3.93E-06	1.79E-05	4.26E-08	2.41E-06	8.23E-06	9.90E-09
5061	421047.5	3734082	2.95E-05	1.35E-04	2.94E-07	4.04E-06	1.84E-05	4.38E-08	2.48E-06	8.46E-06	1.02E-08
5062	421050.6	3734090	3.03E-05	1.38E-04	3.03E-07	4.15E-06	1.89E-05	4.51E-08	2.55E-06	8.70E-06	1.05E-08
5063	421053.6	3734099	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.62E-06	8.94E-06	1.07E-08
5064	421056.7	3734107	3.20E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.18E-06	1.10E-08
5065	421059.8	3734116	3.28E-05	1.50E-04	3.28E-07	4.50E-06	2.05E-05	4.88E-08	2.76E-06	9.42E-06	1.13E-08
5066	421062.8	3734124	3.36E-05	1.54E-04	3.36E-07	4.61E-06	2.10E-05	5.01E-08	2.83E-06	9.67E-06	1.16E-08
5067	421065.9	3734133	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.13E-08	2.90E-06	9.91E-06	1.19E-08
5068	421068.9	3734142	3.53E-05	1.62E-04	3.53E-07	4.84E-06	2.21E-05	5.26E-08	2.97E-06	1.02E-05	1.22E-08
5069	421072	3734150	3.62E-05	1.65E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.04E-06	1.04E-05	1.25E-08
5070	421075.1	3734159	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08

5071	421078.1	3734167	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
5072	421081.2	3734176	3.88E-05	1.77E-04	3.87E-07	5.31E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
5073	421084.3	3734184	3.96E-05	1.81E-04	3.96E-07	5.43E-06	2.48E-05	5.90E-08	3.33E-06	1.14E-05	1.37E-08
5074	421087.3	3734193	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
5075	420803	3733921	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.44E-06	4.93E-06	5.93E-09
5076	420852.4	3733899	1.60E-05	7.31E-05	1.60E-07	2.19E-06	1.00E-05	2.38E-08	1.35E-06	4.60E-06	5.53E-09
5077	420860.2	3733904	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.63E-09
5078	420891.1	3733923	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.47E-06	5.01E-06	6.02E-09
5079	420945.4	3733956	1.95E-05	8.91E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.60E-06	6.74E-09
5080	420953.1	3733960	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
5081	420960.8	3733965	2.01E-05	9.19E-05	2.01E-07	2.75E-06	1.26E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
5082	420976.3	3733975	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.95E-06	7.15E-09
5083	420984.1	3733979	2.10E-05	9.60E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
5084	420991.8	3733984	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.11E-06	7.35E-09
5085	421007.3	3733993	2.18E-05	9.98E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.84E-06	6.27E-06	7.54E-09
5086	421015.1	3733998	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
5087	421022.8	3734003	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.40E-05	3.32E-08	1.88E-06	6.42E-06	7.72E-09
5088	421030.6	3734007	2.26E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.80E-09
5089	421046	3734017	2.30E-05	1.05E-04	2.30E-07	3.15E-06	1.44E-05	3.42E-08	1.93E-06	6.60E-06	7.94E-09
5090	421053.8	3734021	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.45E-08	1.95E-06	6.65E-06	8.00E-09
5091	421061.5	3734026	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.47E-08	1.96E-06	6.70E-06	8.06E-09
5092	421072.3	3734039	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.59E-08	2.03E-06	6.92E-06	8.32E-09
5093	421075.4	3734048	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
5094	421078.5	3734056	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.77E-08	2.13E-06	7.29E-06	8.76E-09
5095	421081.5	3734065	2.60E-05	1.19E-04	2.60E-07	3.56E-06	1.63E-05	3.87E-08	2.19E-06	7.47E-06	8.98E-09
5096	421084.6	3734073	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.67E-05	3.97E-08	2.24E-06	7.66E-06	9.21E-09
5097	421087.6	3734082	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.84E-06	9.43E-09
5098	421090.7	3734091	2.79E-05	1.28E-04	2.79E-07	3.83E-06	1.75E-05	4.16E-08	2.35E-06	8.03E-06	9.66E-09
5099	421093.7	3734099	2.86E-05	1.31E-04	2.86E-07	3.92E-06	1.79E-05	4.26E-08	2.41E-06	8.21E-06	9.88E-09
5100	421096.8	3734108	2.92E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.35E-08	2.46E-06	8.40E-06	1.01E-08
5101	421099.9	3734116	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
5102	421102.9	3734125	3.05E-05	1.39E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.76E-06	1.05E-08
5103	421106	3734133	3.11E-05	1.42E-04	3.11E-07	4.27E-06	1.95E-05	4.64E-08	2.62E-06	8.95E-06	1.08E-08
5104	421109	3734142	3.18E-05	1.45E-04	3.18E-07	4.36E-06	1.99E-05	4.73E-08	2.67E-06	9.13E-06	1.10E-08
5105	421112.1	3734150	3.24E-05	1.48E-04	3.24E-07	4.44E-06	2.03E-05	4.83E-08	2.73E-06	9.31E-06	1.12E-08
5106	421161	3734287	4.46E-05	2.04E-04	4.46E-07	6.11E-06	2.79E-05	6.64E-08	3.75E-06	1.28E-05	1.54E-08
5107	420811.1	3733882	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.21E-08	1.25E-06	4.27E-06	5.14E-09
5108	420860.5	3733860	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.71E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
5109	420868.2	3733865	1.42E-05	6.47E-05	1.42E-07	1.94E-06	8.85E-06	2.11E-08	1.19E-06	4.07E-06	4.89E-09
5110	420875.9	3733870	1.44E-05	6.58E-05	1.44E-07	1.97E-06	9.00E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
5111	420899.2	3733884	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.43E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
5112	420906.9	3733888	1.53E-05	7.00E-05	1.53E-07	2.10E-06	9.57E-06	2.28E-08	1.29E-06	4.40E-06	5.29E-09
5113	420937.8	3733907	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.62E-09
5114	420953.3	3733917	1.68E-05	7.66E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.79E-09
5115	420961	3733921	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
5116	421015.2	3733954	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
5117	421022.9	3733959	1.89E-05	8.64E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.43E-06	6.53E-09
5118	421038.4	3733968	1.93E-05	8.84E-05	1.93E-07	2.65E-06	1.21E-05	2.88E-08	1.63E-06	5.55E-06	6.68E-09
5119	421046.1	3733973	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
5120	421053.8	3733977	1.97E-05	9.01E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.81E-09
5121	421069.3	3733987	2.01E-05	9.17E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.77E-06	6.93E-09
5122	421077	3733991	2.02E-05	9.25E-05	2.02E-07	2.77E-06	1.26E-05	3.01E-08	1.70E-06	5.81E-06	6.99E-09
5123	421084.8	3733996	2.04E-05	9.31E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.04E-09
5124	421103.3	3734014	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.06E-06	7.29E-09
5125	421106.4	3734023	2.16E-05	9.88E-05	2.16E-07	2.96E-06	1.35E-05	3.22E-08	1.82E-06	6.21E-06	7.46E-09
5126	421109.4	3734031	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.64E-09
5127	421112.5	3734040	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.36E-08	1.90E-06	6.49E-06	7.81E-09
5128	421115.5	3734048	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.99E-09
5129	421118.6	3734057	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.79E-06	8.16E-09

5130	421121.6	3734065	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
5131	421124.7	3734074	2.46E-05	1.13E-04	2.46E-07	3.38E-06	1.54E-05	3.67E-08	2.07E-06	7.08E-06	8.51E-09
5132	421127.7	3734082	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.69E-09
5133	421130.8	3734091	2.56E-05	1.17E-04	2.56E-07	3.51E-06	1.60E-05	3.82E-08	2.16E-06	7.37E-06	8.86E-09
5134	421133.8	3734099	2.61E-05	1.19E-04	2.61E-07	3.58E-06	1.63E-05	3.89E-08	2.20E-06	7.51E-06	9.03E-09
5135	421136.9	3734108	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.20E-09
5136	421198	3734278	3.79E-05	1.74E-04	3.79E-07	5.20E-06	2.37E-05	5.65E-08	3.19E-06	1.09E-05	1.31E-08
5137	421201	3734286	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
5138	420828.2	3733844	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.21E-06	1.96E-08	1.11E-06	3.77E-06	4.54E-09
5139	420819.2	3733842	1.30E-05	5.95E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
5140	420876.3	3733826	1.25E-05	5.69E-05	1.24E-07	1.71E-06	7.79E-06	1.85E-08	1.05E-06	3.58E-06	4.30E-09
5141	420907.2	3733844	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5142	420914.9	3733849	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.38E-06	2.00E-08	1.13E-06	3.85E-06	4.63E-09
5143	420930.4	3733859	1.38E-05	6.31E-05	1.38E-07	1.89E-06	8.63E-06	2.05E-08	1.16E-06	3.97E-06	4.77E-09
5144	420961.3	3733877	1.46E-05	6.67E-05	1.46E-07	2.00E-06	9.12E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
5145	420969	3733882	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.25E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
5146	420984.4	3733891	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.50E-06	2.26E-08	1.28E-06	4.37E-06	5.25E-09
5147	420992.2	3733896	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.42E-06	5.32E-09
5148	420999.9	3733901	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5149	421015.3	3733910	1.60E-05	7.31E-05	1.60E-07	2.19E-06	1.00E-05	2.38E-08	1.35E-06	4.60E-06	5.53E-09
5150	421023.1	3733915	1.62E-05	7.40E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.65E-06	5.60E-09
5151	421030.8	3733919	1.64E-05	7.49E-05	1.64E-07	2.25E-06	1.02E-05	2.44E-08	1.38E-06	4.71E-06	5.66E-09
5152	421084.9	3733952	1.76E-05	8.04E-05	1.76E-07	2.41E-06	1.10E-05	2.62E-08	1.48E-06	5.05E-06	6.08E-09
5153	421100.3	3733962	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
5154	421108	3733966	1.80E-05	8.22E-05	1.80E-07	2.46E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.21E-09
5155	421123.5	3733976	1.82E-05	8.31E-05	1.82E-07	2.49E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.28E-09
5156	421134.3	3733989	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
5157	421137.3	3733997	1.91E-05	8.72E-05	1.91E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
5158	421140.4	3734006	1.95E-05	8.90E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.60E-06	6.73E-09
5159	421143.4	3734014	1.99E-05	9.09E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
5160	421146.5	3734023	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
5161	421149.5	3734031	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
5162	421152.6	3734040	2.11E-05	9.64E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.77E-06	6.06E-06	7.29E-09
5163	421155.6	3734048	2.15E-05	9.83E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
5164	421158.7	3734057	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.29E-06	7.56E-09
5165	421161.7	3734065	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.40E-06	7.70E-09
5166	421195.3	3734159	2.65E-05	1.21E-04	2.65E-07	3.63E-06	1.66E-05	3.95E-08	2.23E-06	7.62E-06	9.16E-09
5167	421198.3	3734167	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.30E-09
5168	421201.4	3734176	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.85E-06	9.44E-09
5169	421204.4	3734184	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.96E-06	9.58E-09
5170	421207.5	3734193	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
5171	421210.5	3734201	2.86E-05	1.31E-04	2.86E-07	3.92E-06	1.79E-05	4.26E-08	2.41E-06	8.22E-06	9.88E-09
5172	421213.6	3734210	2.91E-05	1.33E-04	2.90E-07	3.98E-06	1.82E-05	4.32E-08	2.44E-06	8.35E-06	1.00E-08
5173	420836.3	3733805	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.27E-06	1.73E-08	9.78E-07	3.34E-06	4.02E-09
5174	420827.3	3733803	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.70E-07	3.31E-06	3.98E-09
5175	420884.4	3733787	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.92E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
5176	420915.2	3733805	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
5177	420922.9	3733810	1.19E-05	5.42E-05	1.19E-07	1.63E-06	7.41E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
5178	420930.7	3733815	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5179	420946.1	3733824	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
5180	420969.2	3733838	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.03E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
5181	420977	3733843	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.13E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
5182	420992.4	3733852	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
5183	421000.1	3733857	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
5184	421007.8	3733861	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
5185	421023.3	3733871	1.40E-05	6.41E-05	1.40E-07	1.92E-06	8.77E-06	2.09E-08	1.18E-06	4.03E-06	4.85E-09
5186	421031	3733875	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
5187	421046.4	3733885	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.17E-06	5.02E-09
5188	421054.1	3733889	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.18E-06	2.19E-08	1.24E-06	4.22E-06	5.07E-09

5189	421061.9	3733894	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
5190	421077.3	3733903	1.51E-05	6.92E-05	1.51E-07	2.08E-06	9.47E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
5191	421085	3733908	1.53E-05	6.99E-05	1.53E-07	2.10E-06	9.56E-06	2.28E-08	1.29E-06	4.39E-06	5.28E-09
5192	421100.4	3733918	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.73E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
5193	421108.2	3733922	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
5194	421165.2	3733963	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5195	421168.3	3733972	1.70E-05	7.76E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.86E-09
5196	421171.3	3733980	1.73E-05	7.91E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.46E-06	4.97E-06	5.98E-09
5197	421174.4	3733989	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
5198	421177.4	3733997	1.80E-05	8.21E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
5199	421180.5	3734006	1.83E-05	8.36E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.32E-09
5200	421186.6	3734023	1.89E-05	8.66E-05	1.89E-07	2.60E-06	1.18E-05	2.82E-08	1.59E-06	5.44E-06	6.54E-09
5201	421204.9	3734074	2.08E-05	9.52E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
5202	421207.9	3734082	2.11E-05	9.66E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.07E-06	7.30E-09
5203	421211	3734091	2.14E-05	9.80E-05	2.14E-07	2.94E-06	1.34E-05	3.19E-08	1.80E-06	6.16E-06	7.41E-09
5204	421214	3734099	2.17E-05	9.94E-05	2.17E-07	2.98E-06	1.36E-05	3.24E-08	1.83E-06	6.25E-06	7.51E-09
5205	421235.3	3734159	2.39E-05	1.09E-04	2.39E-07	3.27E-06	1.49E-05	3.55E-08	2.01E-06	6.86E-06	8.25E-09
5206	421238.4	3734167	2.42E-05	1.11E-04	2.42E-07	3.32E-06	1.51E-05	3.60E-08	2.04E-06	6.95E-06	8.36E-09
5207	421241.4	3734176	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
5208	421244.5	3734184	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.70E-08	2.09E-06	7.15E-06	8.60E-09
5209	421247.5	3734193	2.53E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.76E-08	2.12E-06	7.26E-06	8.73E-09
5210	421250.6	3734201	2.56E-05	1.17E-04	2.56E-07	3.51E-06	1.60E-05	3.82E-08	2.16E-06	7.37E-06	8.86E-09
5211	421253.6	3734210	2.60E-05	1.19E-04	2.60E-07	3.57E-06	1.63E-05	3.87E-08	2.19E-06	7.48E-06	9.00E-09
5212	421256.7	3734218	2.64E-05	1.21E-04	2.64E-07	3.63E-06	1.65E-05	3.94E-08	2.23E-06	7.60E-06	9.14E-09
5213	421259.7	3734227	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.29E-09
5214	421262.8	3734235	2.74E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
5215	421265.8	3734244	2.78E-05	1.27E-04	2.78E-07	3.82E-06	1.74E-05	4.14E-08	2.34E-06	8.00E-06	9.62E-09
5216	421281	3734286	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
5217	420853.5	3733768	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.61E-09
5218	420844.4	3733766	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.74E-07	2.98E-06	3.59E-09
5219	420835.4	3733764	1.03E-05	4.71E-05	1.03E-07	1.41E-06	6.44E-06	1.53E-08	8.67E-07	2.96E-06	3.56E-09
5220	420893.2	3733748	9.95E-06	4.55E-05	9.94E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
5221	420901.1	3733753	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
5222	420932.6	3733772	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
5223	420940.5	3733777	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5224	420948.4	3733781	1.09E-05	4.99E-05	1.09E-07	1.49E-06	6.82E-06	1.62E-08	9.17E-07	3.13E-06	3.77E-09
5225	420956.3	3733786	1.10E-05	5.05E-05	1.10E-07	1.51E-06	6.90E-06	1.64E-08	9.29E-07	3.17E-06	3.81E-09
5226	420964.2	3733791	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.66E-08	9.41E-07	3.21E-06	3.86E-09
5227	420987.9	3733805	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
5228	420995.8	3733810	1.18E-05	5.37E-05	1.17E-07	1.61E-06	7.35E-06	1.75E-08	9.89E-07	3.38E-06	4.06E-09
5229	421003.7	3733815	1.19E-05	5.44E-05	1.19E-07	1.63E-06	7.44E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
5230	421011.6	3733820	1.20E-05	5.51E-05	1.20E-07	1.65E-06	7.53E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
5231	421019.5	3733824	1.22E-05	5.58E-05	1.22E-07	1.67E-06	7.62E-06	1.82E-08	1.03E-06	3.50E-06	4.21E-09
5232	421027.4	3733829	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.26E-09
5233	421035.3	3733834	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
5234	421043.2	3733839	1.26E-05	5.78E-05	1.26E-07	1.73E-06	7.90E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
5235	421051.1	3733844	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.42E-09
5236	421059	3733848	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.47E-09
5237	421066.8	3733853	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.75E-06	4.52E-09
5238	421074.7	3733858	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.56E-09
5239	421082.6	3733863	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
5240	421090.5	3733867	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.43E-06	2.01E-08	1.13E-06	3.88E-06	4.66E-09
5241	421098.4	3733872	1.36E-05	6.23E-05	1.36E-07	1.87E-06	8.51E-06	2.03E-08	1.15E-06	3.91E-06	4.71E-09
5242	421106.3	3733877	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
5243	421114.2	3733882	1.39E-05	6.34E-05	1.39E-07	1.90E-06	8.67E-06	2.06E-08	1.17E-06	3.98E-06	4.79E-09
5244	421122.1	3733887	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.02E-06	4.83E-09
5245	421130	3733891	1.41E-05	6.44E-05	1.41E-07	1.93E-06	8.81E-06	2.10E-08	1.19E-06	4.05E-06	4.87E-09
5246	421137.9	3733896	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.88E-06	2.11E-08	1.19E-06	4.08E-06	4.91E-09
5247	421145.8	3733901	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.94E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09

5248	421153.7	3733906	1.44E-05	6.58E-05	1.44E-07	1.97E-06	8.99E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
5249	421161.6	3733910	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.05E-06	2.15E-08	1.22E-06	4.16E-06	5.00E-09
5250	421169.5	3733915	1.45E-05	6.65E-05	1.45E-07	1.99E-06	9.09E-06	2.16E-08	1.22E-06	4.18E-06	5.02E-09
5251	421177.4	3733920	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
5252	421205.6	3733964	1.58E-05	7.22E-05	1.58E-07	2.17E-06	9.88E-06	2.35E-08	1.33E-06	4.54E-06	5.46E-09
5253	421208.7	3733973	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.62E-06	5.55E-09
5254	421211.9	3733982	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
5255	421230.6	3734034	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
5256	421233.7	3734043	1.82E-05	8.32E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
5257	421236.8	3734051	1.85E-05	8.44E-05	1.84E-07	2.53E-06	1.15E-05	2.75E-08	1.55E-06	5.30E-06	6.38E-09
5258	421239.9	3734060	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
5259	421243	3734069	1.90E-05	8.67E-05	1.89E-07	2.60E-06	1.18E-05	2.82E-08	1.59E-06	5.45E-06	6.55E-09
5260	421246.2	3734077	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
5261	421249.3	3734086	1.94E-05	8.89E-05	1.94E-07	2.67E-06	1.22E-05	2.89E-08	1.64E-06	5.59E-06	6.72E-09
5262	421252.4	3734095	1.97E-05	9.00E-05	1.97E-07	2.70E-06	1.23E-05	2.93E-08	1.66E-06	5.66E-06	6.80E-09
5263	421255.5	3734103	1.99E-05	9.11E-05	1.99E-07	2.73E-06	1.25E-05	2.97E-08	1.68E-06	5.73E-06	6.89E-09
5264	421258.6	3734112	2.02E-05	9.23E-05	2.02E-07	2.77E-06	1.26E-05	3.00E-08	1.70E-06	5.80E-06	6.97E-09
5265	421261.7	3734121	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
5266	421264.9	3734129	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
5267	421268	3734138	2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
5268	421271.1	3734147	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.78E-06	6.09E-06	7.33E-09
5269	421274.2	3734156	2.15E-05	9.82E-05	2.15E-07	2.94E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
5270	421277.3	3734164	2.18E-05	9.95E-05	2.18E-07	2.98E-06	1.36E-05	3.24E-08	1.83E-06	6.25E-06	7.52E-09
5271	421280.4	3734173	2.21E-05	1.01E-04	2.21E-07	3.02E-06	1.38E-05	3.28E-08	1.86E-06	6.34E-06	7.62E-09
5272	421283.6	3734182	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.43E-06	7.73E-09
5273	421286.7	3734190	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.38E-08	1.91E-06	6.52E-06	7.84E-09
5274	421289.8	3734199	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.62E-06	7.96E-09
5275	421292.9	3734208	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.72E-06	8.08E-09
5276	421296	3734216	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
5277	421299.2	3734225	2.42E-05	1.10E-04	2.42E-07	3.31E-06	1.51E-05	3.60E-08	2.03E-06	6.94E-06	8.35E-09
5278	421302.3	3734234	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.06E-06	8.49E-09
5279	421305.4	3734242	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.19E-06	8.64E-09
5280	421321	3734286	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.10E-08	2.31E-06	7.91E-06	9.51E-09
5281	420861.6	3733729	9.42E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
5282	420852.5	3733727	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
5283	420843.5	3733725	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
5284	420901.2	3733709	9.00E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
5285	420909.1	3733713	9.11E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
5286	420916.9	3733718	9.23E-06	4.22E-05	9.22E-08	1.26E-06	5.77E-06	1.37E-08	7.76E-07	2.65E-06	3.19E-09
5287	420924.8	3733723	9.34E-06	4.27E-05	9.34E-08	1.28E-06	5.84E-06	1.39E-08	7.86E-07	2.68E-06	3.23E-09
5288	420948.5	3733737	9.69E-06	4.43E-05	9.68E-08	1.33E-06	6.06E-06	1.44E-08	8.15E-07	2.78E-06	3.35E-09
5289	420956.3	3733742	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
5290	420964.2	3733747	9.92E-06	4.54E-05	9.92E-08	1.36E-06	6.20E-06	1.48E-08	8.35E-07	2.85E-06	3.43E-09
5291	420972.1	3733752	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.49E-08	8.45E-07	2.89E-06	3.47E-09
5292	420980	3733756	1.02E-05	4.64E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
5293	420987.8	3733761	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.95E-06	3.55E-09
5294	421003.6	3733771	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.64E-09
5295	421011.5	3733775	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.58E-08	8.96E-07	3.06E-06	3.68E-09
5296	421019.3	3733780	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5297	421027.2	3733785	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.76E-09
5298	421035.1	3733790	1.10E-05	5.04E-05	1.10E-07	1.51E-06	6.89E-06	1.64E-08	9.27E-07	3.17E-06	3.81E-09
5299	421043	3733795	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
5300	421050.8	3733799	1.13E-05	5.15E-05	1.13E-07	1.54E-06	7.04E-06	1.68E-08	9.48E-07	3.24E-06	3.89E-09
5301	421058.7	3733804	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.70E-08	9.59E-07	3.27E-06	3.94E-09
5302	421066.6	3733809	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.20E-06	1.72E-08	9.69E-07	3.31E-06	3.98E-09
5303	421074.5	3733814	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.80E-07	3.35E-06	4.02E-09
5304	421082.4	3733818	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
5305	421090.2	3733823	1.19E-05	5.44E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
5306	421098.1	3733828	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09

5307	421106	3733833	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.58E-06	1.81E-08	1.02E-06	3.49E-06	4.19E-09
5308	421113.9	3733837	1.22E-05	5.60E-05	1.22E-07	1.68E-06	7.66E-06	1.82E-08	1.03E-06	3.52E-06	4.23E-09
5309	421121.7	3733842	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
5310	421129.6	3733847	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.80E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
5311	421137.5	3733852	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
5312	421145.4	3733857	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
5313	421153.2	3733861	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.42E-09
5314	421161.1	3733866	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.70E-06	4.44E-09
5315	421169	3733871	1.29E-05	5.92E-05	1.29E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
5316	421176.9	3733876	1.30E-05	5.95E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
5317	421184.7	3733880	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
5318	421192.6	3733885	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
5319	421200.5	3733890	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5320	421208.4	3733895	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.30E-06	1.98E-08	1.12E-06	3.81E-06	4.59E-09
5321	421216.3	3733900	1.33E-05	6.09E-05	1.33E-07	1.83E-06	8.33E-06	1.98E-08	1.12E-06	3.83E-06	4.60E-09
5322	421255.2	3733991	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.76E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5323	421258.3	3734000	1.58E-05	7.23E-05	1.58E-07	2.17E-06	9.89E-06	2.35E-08	1.33E-06	4.55E-06	5.47E-09
5324	421261.5	3734008	1.60E-05	7.33E-05	1.60E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.54E-09
5325	421264.6	3734017	1.62E-05	7.42E-05	1.62E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.61E-09
5326	421267.7	3734026	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.72E-06	5.68E-09
5327	421270.8	3734034	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5328	421273.9	3734043	1.68E-05	7.70E-05	1.68E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.84E-06	5.82E-09
5329	421277	3734052	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
5330	421280.1	3734060	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.95E-06	5.96E-09
5331	421283.2	3734069	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.01E-06	6.02E-09
5332	421286.3	3734078	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.07E-06	6.09E-09
5333	421289.4	3734086	1.78E-05	8.15E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
5334	421292.6	3734095	1.80E-05	8.23E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
5335	421295.7	3734104	1.82E-05	8.32E-05	1.82E-07	2.49E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
5336	421298.8	3734112	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
5337	421301.9	3734121	1.86E-05	8.52E-05	1.86E-07	2.55E-06	1.17E-05	2.77E-08	1.57E-06	5.35E-06	6.44E-09
5338	421305	3734130	1.88E-05	8.62E-05	1.88E-07	2.58E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.51E-09
5339	421308.1	3734138	1.91E-05	8.72E-05	1.91E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
5340	421311.2	3734147	1.93E-05	8.82E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
5341	421314.3	3734156	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
5342	421317.4	3734164	1.98E-05	9.04E-05	1.98E-07	2.71E-06	1.24E-05	2.94E-08	1.66E-06	5.68E-06	6.84E-09
5343	421320.5	3734173	2.00E-05	9.16E-05	2.00E-07	2.75E-06	1.25E-05	2.98E-08	1.69E-06	5.76E-06	6.92E-09
5344	421323.7	3734182	2.03E-05	9.28E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.84E-06	7.02E-09
5345	421326.8	3734190	2.06E-05	9.42E-05	2.06E-07	2.82E-06	1.29E-05	3.07E-08	1.73E-06	5.92E-06	7.12E-09
5346	421329.9	3734199	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
5347	421333	3734208	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.78E-06	6.09E-06	7.33E-09
5348	421336.1	3734216	2.15E-05	9.85E-05	2.15E-07	2.95E-06	1.35E-05	3.21E-08	1.81E-06	6.19E-06	7.44E-09
5349	421339.2	3734225	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.29E-06	7.56E-09
5350	421342.3	3734234	2.23E-05	1.02E-04	2.22E-07	3.05E-06	1.39E-05	3.31E-08	1.87E-06	6.39E-06	7.69E-09
5351	421345.4	3734242	2.26E-05	1.04E-04	2.26E-07	3.10E-06	1.42E-05	3.37E-08	1.91E-06	6.51E-06	7.83E-09
5352	421361	3734286	2.48E-05	1.14E-04	2.48E-07	3.40E-06	1.55E-05	3.70E-08	2.09E-06	7.13E-06	8.58E-09
5353	420869.7	3733690	8.56E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
5354	420860.6	3733688	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.32E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
5355	420851.6	3733686	8.45E-06	3.86E-05	8.45E-08	1.16E-06	5.28E-06	1.26E-08	7.11E-07	2.43E-06	2.92E-09
5356	420909.2	3733669	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.84E-09
5357	420917.1	3733674	8.30E-06	3.79E-05	8.30E-08	1.14E-06	5.19E-06	1.24E-08	6.98E-07	2.38E-06	2.87E-09
5358	420925	3733679	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
5359	420932.8	3733684	8.49E-06	3.88E-05	8.49E-08	1.16E-06	5.31E-06	1.26E-08	7.14E-07	2.44E-06	2.93E-09
5360	420940.7	3733688	8.59E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
5361	420972.1	3733708	8.99E-06	4.11E-05	8.98E-08	1.23E-06	5.62E-06	1.34E-08	7.56E-07	2.58E-06	3.11E-09
5362	420980	3733712	9.09E-06	4.15E-05	9.08E-08	1.25E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
5363	420987.8	3733717	9.19E-06	4.20E-05	9.19E-08	1.26E-06	5.75E-06	1.37E-08	7.73E-07	2.64E-06	3.18E-09
5364	420995.7	3733722	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
5365	421003.6	3733727	9.39E-06	4.30E-05	9.39E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.25E-09

5366	421027.1	3733741	9.71E-06	4.44E-05	9.70E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.35E-09
5367	421035	3733746	9.81E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
5368	421042.9	3733750	9.92E-06	4.54E-05	9.92E-08	1.36E-06	6.20E-06	1.48E-08	8.35E-07	2.85E-06	3.43E-09
5369	421050.7	3733755	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
5370	421058.6	3733760	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
5371	421066.4	3733765	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.41E-06	1.52E-08	8.62E-07	2.94E-06	3.54E-09
5372	421074.3	3733769	1.04E-05	4.73E-05	1.03E-07	1.42E-06	6.47E-06	1.54E-08	8.71E-07	2.98E-06	3.58E-09
5373	421082.2	3733774	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.62E-09
5374	421090	3733779	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
5375	421097.9	3733784	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
5376	421105.7	3733788	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.74E-06	1.61E-08	9.07E-07	3.10E-06	3.73E-09
5377	421113.6	3733793	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
5378	421121.5	3733798	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.87E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
5379	421129.3	3733803	1.11E-05	5.07E-05	1.11E-07	1.52E-06	6.94E-06	1.65E-08	9.33E-07	3.19E-06	3.83E-09
5380	421137.2	3733808	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.42E-07	3.22E-06	3.87E-09
5381	421145.1	3733812	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.06E-06	1.68E-08	9.50E-07	3.24E-06	3.90E-09
5382	421152.9	3733817	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.69E-08	9.58E-07	3.27E-06	3.93E-09
5383	421160.8	3733822	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
5384	421168.6	3733827	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
5385	421176.5	3733831	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.80E-07	3.35E-06	4.02E-09
5386	421184.4	3733836	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
5387	421192.2	3733841	1.18E-05	5.39E-05	1.18E-07	1.62E-06	7.38E-06	1.76E-08	9.93E-07	3.39E-06	4.08E-09
5388	421200.1	3733846	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.42E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
5389	421207.9	3733850	1.19E-05	5.46E-05	1.19E-07	1.64E-06	7.46E-06	1.78E-08	1.00E-06	3.43E-06	4.12E-09
5390	421215.8	3733855	1.20E-05	5.48E-05	1.20E-07	1.64E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.14E-09
5391	421264.4	3733905	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.41E-09
5392	421267.5	3733914	1.30E-05	5.92E-05	1.30E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.48E-09
5393	421270.6	3733922	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
5394	421286.1	3733965	1.41E-05	6.44E-05	1.41E-07	1.93E-06	8.80E-06	2.10E-08	1.18E-06	4.04E-06	4.86E-09
5395	421289.2	3733974	1.43E-05	6.52E-05	1.42E-07	1.95E-06	8.91E-06	2.12E-08	1.20E-06	4.10E-06	4.93E-09
5396	421292.3	3733983	1.44E-05	6.60E-05	1.44E-07	1.98E-06	9.02E-06	2.15E-08	1.21E-06	4.15E-06	4.99E-09
5397	421295.5	3733991	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
5398	421298.6	3734000	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
5399	421301.7	3734009	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
5400	421304.8	3734017	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
5401	421307.9	3734026	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.28E-06	4.39E-06	5.28E-09
5402	421311	3734035	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.33E-09
5403	421314.1	3734043	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5404	421317.2	3734052	1.58E-05	7.20E-05	1.58E-07	2.16E-06	9.85E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
5405	421320.3	3734061	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.58E-06	5.50E-09
5406	421323.4	3734069	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.01E-05	2.39E-08	1.35E-06	4.62E-06	5.56E-09
5407	421326.5	3734078	1.62E-05	7.43E-05	1.62E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.61E-09
5408	421329.6	3734087	1.64E-05	7.50E-05	1.64E-07	2.25E-06	1.03E-05	2.44E-08	1.38E-06	4.71E-06	5.67E-09
5409	421332.7	3734095	1.66E-05	7.57E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.39E-06	4.76E-06	5.72E-09
5410	421335.8	3734104	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.81E-06	5.78E-09
5411	421338.9	3734113	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
5412	421342	3734121	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
5413	421345.1	3734130	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.97E-09
5414	421348.2	3734139	1.75E-05	7.98E-05	1.75E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.02E-06	6.03E-09
5415	421351.3	3734147	1.77E-05	8.07E-05	1.76E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.07E-06	6.10E-09
5416	421354.4	3734156	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
5417	421357.5	3734164	1.81E-05	8.26E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.25E-09
5418	421360.6	3734173	1.83E-05	8.37E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.26E-06	6.33E-09
5419	421363.7	3734182	1.85E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
5420	421366.8	3734190	1.88E-05	8.59E-05	1.88E-07	2.58E-06	1.17E-05	2.80E-08	1.58E-06	5.40E-06	6.49E-09
5421	421369.9	3734199	1.90E-05	8.71E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.58E-09
5422	421373.1	3734208	1.93E-05	8.83E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
5423	421376.2	3734216	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.92E-08	1.65E-06	5.63E-06	6.77E-09
5424	421379.3	3734225	1.99E-05	9.08E-05	1.98E-07	2.72E-06	1.24E-05	2.96E-08	1.67E-06	5.70E-06	6.86E-09

5425	421382.4	3734234	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
5426	421385.5	3734242	2.04E-05	9.33E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.05E-09
5427	421401	3734286	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.43E-06	7.73E-09
5428	420877.8	3733650	7.83E-06	3.58E-05	7.82E-08	1.07E-06	4.89E-06	1.17E-08	6.58E-07	2.25E-06	2.70E-09
5429	420868.8	3733648	7.78E-06	3.56E-05	7.78E-08	1.07E-06	4.86E-06	1.16E-08	6.55E-07	2.24E-06	2.69E-09
5430	420859.7	3733647	7.74E-06	3.54E-05	7.73E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
5431	420893.7	3733616	7.29E-06	3.33E-05	7.28E-08	9.99E-07	4.56E-06	1.08E-08	6.13E-07	2.09E-06	2.52E-09
5432	420917.3	3733630	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
5433	420925.1	3733635	7.61E-06	3.48E-05	7.61E-08	1.04E-06	4.76E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
5434	420933	3733640	7.70E-06	3.52E-05	7.69E-08	1.05E-06	4.81E-06	1.15E-08	6.47E-07	2.21E-06	2.66E-09
5435	420940.8	3733644	7.78E-06	3.56E-05	7.77E-08	1.07E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.69E-09
5436	420948.7	3733649	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
5437	420956.5	3733654	7.95E-06	3.63E-05	7.94E-08	1.09E-06	4.97E-06	1.18E-08	6.68E-07	2.28E-06	2.75E-09
5438	420964.4	3733659	8.03E-06	3.67E-05	8.02E-08	1.10E-06	5.02E-06	1.19E-08	6.75E-07	2.31E-06	2.77E-09
5439	420995.7	3733678	8.37E-06	3.83E-05	8.37E-08	1.15E-06	5.23E-06	1.25E-08	7.04E-07	2.41E-06	2.89E-09
5440	421003.6	3733683	8.46E-06	3.87E-05	8.45E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.92E-09
5441	421011.4	3733687	8.55E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.19E-07	2.46E-06	2.95E-09
5442	421019.3	3733692	8.64E-06	3.95E-05	8.63E-08	1.18E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.98E-09
5443	421027.1	3733697	8.73E-06	3.99E-05	8.72E-08	1.20E-06	5.46E-06	1.30E-08	7.34E-07	2.51E-06	3.02E-09
5444	421050.7	3733711	9.00E-06	4.11E-05	8.99E-08	1.23E-06	5.63E-06	1.34E-08	7.57E-07	2.59E-06	3.11E-09
5445	421058.5	3733716	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
5446	421066.4	3733721	9.19E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.73E-07	2.64E-06	3.17E-09
5447	421074.2	3733725	9.28E-06	4.24E-05	9.28E-08	1.27E-06	5.80E-06	1.38E-08	7.81E-07	2.67E-06	3.21E-09
5448	421082.1	3733730	9.38E-06	4.29E-05	9.37E-08	1.29E-06	5.86E-06	1.40E-08	7.89E-07	2.69E-06	3.24E-09
5449	421089.9	3733735	9.47E-06	4.33E-05	9.46E-08	1.30E-06	5.92E-06	1.41E-08	7.97E-07	2.72E-06	3.27E-09
5450	421097.8	3733740	9.56E-06	4.37E-05	9.56E-08	1.31E-06	5.98E-06	1.42E-08	8.05E-07	2.75E-06	3.30E-09
5451	421105.6	3733744	9.66E-06	4.42E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
5452	421113.4	3733749	9.75E-06	4.46E-05	9.74E-08	1.34E-06	6.10E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
5453	421121.3	3733754	9.84E-06	4.50E-05	9.84E-08	1.35E-06	6.15E-06	1.47E-08	8.28E-07	2.83E-06	3.40E-09
5454	421129.1	3733759	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
5455	421137	3733763	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
5456	421144.8	3733768	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
5457	421152.7	3733773	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.59E-07	2.93E-06	3.53E-09
5458	421160.5	3733778	1.03E-05	4.71E-05	1.03E-07	1.41E-06	6.44E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
5459	421168.4	3733782	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
5460	421176.2	3733787	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.62E-09
5461	421184.1	3733792	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
5462	421191.9	3733797	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
5463	421199.8	3733801	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
5464	421207.6	3733806	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5465	421215.5	3733811	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
5466	421270.4	3733844	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
5467	421278.2	3733849	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.41E-07	3.22E-06	3.87E-09
5468	421289.2	3733862	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
5469	421292.3	3733871	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
5470	421295.4	3733880	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
5471	421298.5	3733888	1.19E-05	5.42E-05	1.18E-07	1.62E-06	7.41E-06	1.76E-08	9.97E-07	3.41E-06	4.10E-09
5472	421301.6	3733897	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5473	421304.7	3733905	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
5474	421307.8	3733914	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.70E-06	1.83E-08	1.04E-06	3.54E-06	4.26E-09
5475	421310.9	3733923	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.80E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
5476	421326.4	3733966	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5477	421329.4	3733975	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
5478	421332.5	3733983	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
5479	421335.6	3733992	1.37E-05	6.24E-05	1.36E-07	1.87E-06	8.54E-06	2.03E-08	1.15E-06	3.92E-06	4.72E-09
5480	421338.7	3734000	1.38E-05	6.30E-05	1.38E-07	1.89E-06	8.62E-06	2.05E-08	1.16E-06	3.96E-06	4.77E-09
5481	421341.8	3734009	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.71E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
5482	421344.9	3734018	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
5483	421348	3734026	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.91E-09

5484	421351.1	3734035	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
5485	421354.2	3734044	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.04E-06	2.15E-08	1.22E-06	4.15E-06	5.00E-09
5486	421357.3	3734052	1.46E-05	6.67E-05	1.46E-07	2.00E-06	9.12E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
5487	421360.4	3734061	1.47E-05	6.73E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
5488	421363.5	3734070	1.49E-05	6.79E-05	1.48E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
5489	421366.6	3734078	1.50E-05	6.85E-05	1.50E-07	2.05E-06	9.37E-06	2.23E-08	1.26E-06	4.31E-06	5.18E-09
5490	421369.7	3734087	1.51E-05	6.92E-05	1.51E-07	2.07E-06	9.46E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
5491	421372.8	3734095	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.29E-06	4.39E-06	5.28E-09
5492	421375.9	3734104	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.30E-08	1.30E-06	4.43E-06	5.33E-09
5493	421379	3734113	1.56E-05	7.12E-05	1.56E-07	2.14E-06	9.74E-06	2.32E-08	1.31E-06	4.48E-06	5.38E-09
5494	421382.1	3734121	1.57E-05	7.20E-05	1.57E-07	2.16E-06	9.84E-06	2.34E-08	1.32E-06	4.52E-06	5.44E-09
5495	421385.2	3734130	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
5496	421388.3	3734139	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.01E-05	2.39E-08	1.35E-06	4.62E-06	5.56E-09
5497	421391.4	3734147	1.63E-05	7.43E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.62E-09
5498	421394.5	3734156	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.68E-09
5499	421397.6	3734165	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5500	421400.7	3734173	1.68E-05	7.70E-05	1.68E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.84E-06	5.82E-09
5501	421403.8	3734182	1.71E-05	7.80E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
5502	421406.9	3734190	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.97E-06	5.97E-09
5503	421410	3734199	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.61E-08	1.47E-06	5.03E-06	6.05E-09
5504	421413.1	3734208	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.08E-06	6.10E-09
5505	421416.2	3734216	1.78E-05	8.15E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
5506	421419.3	3734225	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.23E-09
5507	421422.4	3734234	1.83E-05	8.36E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.32E-09
5508	421425.5	3734242	1.86E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
5509	421441	3734285	2.06E-05	9.42E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.73E-06	5.92E-06	7.12E-09
5510	420885.9	3733611	7.20E-06	3.29E-05	7.20E-08	9.88E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
5511	420876.9	3733609	7.16E-06	3.28E-05	7.16E-08	9.82E-07	4.48E-06	1.07E-08	6.03E-07	2.06E-06	2.48E-09
5512	420867.8	3733607	7.12E-06	3.26E-05	7.12E-08	9.76E-07	4.45E-06	1.06E-08	5.99E-07	2.05E-06	2.46E-09

			T2Rev					T3L3					T4				
							2.08E-05					2.84E-06					1.39E-06
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 4	Total	Yr 1	Yr 2	Yr 3	Yr 4	Total	Yr 1	Yr 2	Yr 3	Yr 4	Total
1	420751.42	3734206.59	6.64E-08	2.80E-07	1.23E-10	0.00E+00	3.47E-07	9.10E-09	3.83E-08	1.83E-11	0.00E+00	4.75E-08	5.59E-09	1.76E-08	4.25E-12	0.00E+00	2.32E-08
2	420754.25	3734197	6.13E-08	2.59E-07	1.14E-10	0.00E+00	3.20E-07	8.40E-09	3.54E-08	1.69E-11	0.00E+00	4.38E-08	5.15E-09	1.63E-08	3.93E-12	0.00E+00	2.14E-08
3	420759.89	3734177.81	5.26E-08	2.22E-07	9.75E-11	0.00E+00	2.75E-07	7.21E-09	3.04E-08	1.45E-11	0.00E+00	3.76E-08	4.43E-09	1.40E-08	3.37E-12	0.00E+00	1.84E-08
4	420771.19	3734139.44	3.99E-08	1.68E-07	7.39E-11	0.00E+00	2.08E-07	5.47E-09	2.30E-08	1.10E-11	0.00E+00	2.85E-08	3.36E-09	1.06E-08	2.56E-12	0.00E+00	1.39E-08
5	420776.84	3734120.25	3.52E-08	1.48E-07	6.51E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.70E-12	0.00E+00	2.51E-08	2.96E-09	9.33E-09	2.25E-12	0.00E+00	1.23E-08
6	420782.48	3734101.07	3.12E-08	1.32E-07	5.78E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.61E-12	0.00E+00	2.23E-08	2.63E-09	8.28E-09	2.00E-12	0.00E+00	1.09E-08
7	420788.13	3734081.88	2.79E-08	1.18E-07	5.17E-11	0.00E+00	1.46E-07	3.83E-09	1.61E-08	7.71E-12	0.00E+00	2.00E-08	2.35E-09	7.41E-09	1.79E-12	0.00E+00	9.76E-09
8	420793.78	3734062.7	2.51E-08	1.06E-07	4.65E-11	0.00E+00	1.31E-07	3.44E-09	1.45E-08	6.93E-12	0.00E+00	1.79E-08	2.11E-09	6.66E-09	1.61E-12	0.00E+00	8.77E-09
9	420799.42	3734043.51	2.27E-08	9.57E-08	4.20E-11	0.00E+00	1.18E-07	3.11E-09	1.31E-08	6.26E-12	0.00E+00	1.62E-08	1.91E-09	6.02E-09	1.45E-12	0.00E+00	7.92E-09
10	420805.07	3734024.32	2.06E-08	8.68E-08	3.81E-11	0.00E+00	1.07E-07	2.82E-09	1.19E-08	5.68E-12	0.00E+00	1.47E-08	1.73E-09	5.46E-09	1.32E-12	0.00E+00	7.19E-09
11	420810.72	3734005.14	1.87E-08	7.92E-08	3.47E-11	0.00E+00	9.79E-08	2.57E-09	1.08E-08	5.17E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.55E-09
12	420822.01	3733966.77	1.58E-08	6.66E-08	2.92E-11	0.00E+00	8.24E-08	2.16E-09	9.10E-09	4.35E-12	0.00E+00	1.13E-08	1.33E-09	4.18E-09	1.01E-12	0.00E+00	5.51E-09
13	420844.6	3733890.02	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.74E-09	3.22E-12	0.00E+00	8.34E-09	9.82E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
14	420855.9	3733851.65	1.02E-08	4.32E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.31E-09	8.60E-10	2.71E-09	6.55E-13	0.00E+00	3.57E-09
15	420867.19	3733813.28	9.05E-09	3.82E-08	1.68E-11	0.00E+00	4.73E-08	1.24E-09	5.22E-09	2.50E-12	0.00E+00	6.47E-09	7.61E-10	2.40E-09	5.80E-13	0.00E+00	3.16E-09
16	420878.49	3733774.9	8.09E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.67E-09	2.23E-12	0.00E+00	5.78E-09	6.80E-10	2.15E-09	5.18E-13	0.00E+00	2.83E-09
17	420889.78	3733736.53	7.30E-09	3.08E-08	1.35E-11	0.00E+00	3.81E-08	1.00E-09	4.21E-09	2.01E-12	0.00E+00	5.22E-09	6.14E-10	1.94E-09	4.67E-13	0.00E+00	2.55E-09
18	420901.07	3733698.16	6.63E-09	2.80E-08	1.23E-11	0.00E+00	3.46E-08	9.09E-10	3.83E-09	1.83E-12	0.00E+00	4.74E-09	5.58E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
19	420912.37	3733659.79	6.07E-09	2.56E-08	1.12E-11	0.00E+00	3.17E-08	8.32E-10	3.51E-09	1.68E-12	0.00E+00	4.34E-09	5.11E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
20	420923.66	3733621.41	5.59E-09	2.36E-08	1.04E-11	0.00E+00	2.92E-08	7.66E-10	3.23E-09	1.54E-12	0.00E+00	4.00E-09	4.70E-10	1.48E-09	3.58E-13	0.00E+00	1.95E-09
21	420710.71	3734291.33	1.54E-07	6.49E-07	2.85E-10	0.00E+00	8.03E-07	2.11E-08	8.87E-08	4.24E-11	0.00E+00	1.10E-07	1.29E-08	4.08E-08	9.84E-12	0.00E+00	5.37E-08
22	420710.67	3734301.19	1.75E-07	7.41E-07	3.25E-10	0.00E+00	9.16E-07	2.40E-08	1.01E-07	4.84E-11	0.00E+00	1.25E-07	1.48E-08	4.65E-08	1.12E-11	0.00E+00	6.13E-08
23	420710.55	3734330.77	2.77E-07	1.17E-06	5.14E-10	0.00E+00	1.45E-06	3.80E-08	1.60E-07	7.65E-11	0.00E+00	1.98E-07	2.33E-08	7.36E-08	1.78E-11	0.00E+00	9.70E-08
24	420710.51	3734340.63	3.32E-07	1.40E-06	6.14E-10	0.00E+00	1.73E-06	4.55E-08	1.91E-07	9.15E-11	0.00E+00	2.37E-07	2.79E-08	8.80E-08	2.12E-11	0.00E+00	1.16E-07
25	420710.47	3734350.49	4.04E-07	1.71E-06	7.48E-10	0.00E+00	2.11E-06	5.54E-08	2.33E-07	1.11E-10	0.00E+00	2.89E-07	3.40E-08	1.07E-07	2.59E-11	0.00E+00	1.41E-07
26	420700.67	3734301.15	1.71E-07	7.22E-07	3.17E-10	0.00E+00	8.93E-07	2.34E-08	9.87E-08	4.72E-11	0.00E+00	1.22E-07	1.44E-08	4.54E-08	1.10E-11	0.00E+00	5.98E-08
27	420700.55	3734330.73	2.69E-07	1.14E-06	4.99E-10	0.00E+00	1.41E-06	3.69E-08	1.55E-07	7.43E-11	0.00E+00	1.92E-07	2.27E-08	7.15E-08	1.73E-11	0.00E+00	9.41E-08
28	420700.51	3734340.59	3.22E-07	1.36E-06	5.96E-10	0.00E+00	1.68E-06	4.41E-08	1.86E-07	8.87E-11	0.00E+00	2.30E-07	2.71E-08	8.53E-08	2.06E-11	0.00E+00	1.12E-07
29	420700.47	3734350.45	3.91E-07	1.65E-06	7.25E-10	0.00E+00	2.04E-06	5.36E-08	2.26E-07	1.08E-10	0.00E+00	2.80E-07	3.29E-08	1.04E-07	2.51E-11	0.00E+00	1.37E-07
30	420690.67	3734301.11	1.66E-07	7.02E-07	3.08E-10	0.00E+00	8.68E-07	2.28E-08	9.60E-08	4.59E-11	0.00E+00	1.19E-07	1.40E-08	4.41E-08	1.06E-11	0.00E+00	5.81E-08
31	420690.55	3734330.69	2.60E-07	1.10E-06	4.82E-10	0.00E+00	1.36E-06	3.57E-08	1.50E-07	7.18E-11	0.00E+00	1.86E-07	2.19E-08	6.91E-08	1.67E-11	0.00E+00	9.10E-08
32	420690.51	3734340.55	3.10E-07	1.31E-06	5.74E-10	0.00E+00	1.62E-06	4.25E-08	1.79E-07	8.56E-11	0.00E+00	2.22E-07	2.61E-08	8.23E-08	1.99E-11	0.00E+00	1.08E-07
33	420690.47	3734350.41	3.76E-07	1.59E-06	6.96E-10	0.00E+00	1.96E-06	5.15E-08	2.17E-07	1.04E-10	0.00E+00	2.69E-07	3.16E-08	9.97E-08	2.41E-11	0.00E+00	1.31E-07
34	420684.74	3734283.23	1.30E-07	5.49E-07	2.41E-10	0.00E+00	6.79E-07	1.78E-08	7.51E-08	3.59E-11	0.00E+00	9.29E-08	1.09E-08	3.45E-08	8.33E-12	0.00E+00	4.55E-08
35	420705.61	3734257.72	1.02E-07	4.31E-07	1.89E-10	0.00E+00	5.34E-07	1.40E-08	5.90E-08	2.82E-11	0.00E+00	7.30E-08	8.59E-09	2.71E-08	6.54E-12	0.00E+00	3.57E-08
36	420680.67	3734301.07	1.61E-07	6.81E-07	2.99E-10	0.00E+00	8.43E-07	2.21E-08	9.32E-08	4.45E-11	0.00E+00	1.15E-07	1.36E-08	4.28E-08	1.03E-11	0.00E+00	5.64E-08
37	420680.55	3734330.65	2.51E-07	1.06E-06	4.65E-10	0.00E+00	1.31E-06	3.44E-08	1.45E-07	6.92E-11	0.00E+00	1.79E-07	2.11E-08	6.66E-08	1.61E-11	0.00E+00	8.77E-08
38	420680.51	3734340.51	2.98E-07	1.26E-06	5.52E-10	0.00E+00	1.56E-06	4.08E-08	1.72E-07	8.22E-11	0.00E+00	2.13E-07	2.51E-08	7.90E-08	1.91E-11	0.00E+00	1.04E-07
39	420680.47	3734350.37	3.59E-07	1.52E-06	6.66E-10	0.00E+00	1.88E-06	4.93E-08	2.08E-07	9.92E-11	0.00E+00	2.57E-07	3.02E-08	9.54E-08	2.30E-11	0.00E+00	1.26E-07
40	420674.74	3734283.19	1.27E-07	5.34E-07	2.34E-10	0.00E+00	6.61E-07	1.73E-08	7.30E-08	3.49E-11	0.00E+00	9.04E-08	1.06E-08	3.36E-08	8.10E-12	0.00E+00	4.42E-08
41	420699.64	3734249.7	9.27E-08	3.91E-07	1.72E-10	0.00E+00	4.84E-07	1.27E-08	5.35E-08	2.56E-11	0.00E+00	6.62E-08	7.80E-09	2.46E-08	5.94E-12	0.00E+00	3.24E-08
42	420717.23	3734246.55	9.29E-08	3.92E-07	1.72E-10	0.00E+00	4.85E-07	1.27E-08	5.36E-08	2.56E-11	0.00E+00	6.64E-08	7.81E-09	2.46E-08	5.95E-12	0.00E+00	3.25E-08
43	420670.67	3734301.03	1.57E-07	6.61E-07	2.90E-10	0.00E+00	8.18E-07	2.15E-08	9.04E-08	4.32E-11	0.00E+00	1.12E-07	1.32E-08	4.15E-08	1.00E-11	0.00E+00	5.47E-08
44	420670.55	3734330.61	2.42E-07	1.02E-06	4.48E-10	0.00E+00	1.26E-06	3.31E-08	1.40E-07	6.67E-11	0.00E+00	1.73E-07	2.03E-08	6.41E-08	1.55E-11	0.00E+00	8.45E-08
45	420670.51	3734340.47	2.86E-07	1.21E-06	5.29E-10	0.00E+00	1.49E-06	3.92E-08	1.65E-07	7.88E-11	0.00E+00	2.04E-07	2.40E-08	7.58E-08	1.83E-11	0.00E+00	9.99E-08
46	420670.47	3734350.33	3.43E-07	1.45E-06	6.35E-10	0.00E+00	1.79E-06	4.70E-08	1.98E-07	9.46E-11	0.00E+00	2.45E-07	2.88E-08	9.10E-08	2.20E-11	0.00E+00	1.20E-07
47	420664.74	3734283.15	1.23E-07	5.20E-07	2.28E-10	0.00E+00	6.43E-07	1.69E-08	7.11E-08	3.40E-11	0.00E+00	8.80E-08	1.04E-08	3.27E-08	7.89E-12	0.00E+00	4.30E-08
48	420680.84	3734251.23	9.02E-08	3.81E-07	1.67E-10	0.00E+00	4.71E-07	1.24E-08	5.21E-08	2.49E-11	0.00E+00	6.45E-08	7.59E-09	2.39E-08	5.78E-12	0.00E+00	3.15E-08
49	420693.66	3734241.68	8.44E-08	3.56E-07	1.56E-10	0.00E+00	4.41E-07	1.16E-08	4.87E-08	2.33E-11	0.00E+00	6.03E-08	7.10E-09	2.24E-08	5.41E-12	0.00E+00	2.95E-08
50	420711.26	3734238.53	8.48E-08	3.58E-07	1.57E-10	0.00E+00	4.43E-07	1.16E-08	4.89E-08	2.34E-11	0.00E+00	6.06E-08	7.13E-09	2.25E-08	5.43E-12	0.00E+00	2.96E-08
51	420728.85	3734235.39	8.46E-08	3.57E-07	1.57E-10	0.00E+00	4.42E-07	1.16E-08	4.89E-08	2.33E-11	0.00E+00	6.05E-08	7.12E-09	2.25E-08	5.42E-12	0.00E+00	2.96E-08
52	420660.67	3734300.99	1.52E-07	6.42E-07	2.81E-10	0.00E+00	7.94E-07	2.08E-08	8.77E-08	4.19E-11	0.00E+00	1.09E-07	1.28E-08	4.03E-08	9.73E-12	0.00E+00	5.31E-08
53	420660.55	3734330.57	2.33E-07	9.82E-07	4.31E-10	0.00E+00	1.22E-06	3.19E-08	1.34E-07	6.42E-11	0.00E+00	1.66E-07	1.96E-08	6.17E-08	1.49E-11	0.00E+00	8.13E-08
54	420660.51	3734340.43	2.74E-07	1.16E-06	5.07E-10	0.00E+00	1.43E-06	3.75E-08	1.58E-07	7.56E-11	0.00E+00	1.96E-07	2.30E-08	7.27E-08	1.75E-11	0.00E+00	9.57E-08
55	420660.47	3734350.29	3.26E-07	1.38E-06	6.04E-10	0.00E+00	1.70E-06	4.47E-08	1.88E-07	9.00E-11	0.00E+00	2.33E-07	2.74E-08	8.66E-08	2.09E-11	0.00E+00	1.14E-07
56	420654.74	3734283.11	1.20E-07	5.06E-07	2.22E-10	0.00E+00	6.26E-07	1.64E-08	6.92E-08	3.31E-11	0.00E+00	8.57E-08	1.01E-08	3.18E-08	7.68E-12	0.00E+00	4.19E-08
57	420670.84	3734251.19	8.81E-08	3.72E-07	1.63E-10	0.00E+00	4.60E-07	1.21E-08	5.09E-08	2.43E-11	0.00E+00	6.30E-08	7.41E-09	2.34E-08	5.64E-12	0.00E+00	3.08E-08
58	420687.69	3734233.66	7.71E-08	3.25E-07	1.43E-10	0.00E+00	4.03E-07	1.06E-08	4.45E-08	2.13E-11	0.00E+00	5.51E-08	6.48E-09	2.04E-08	4.94E-12	0.00E+00	2.69E-08
59	420705.29	3734230.51	7.76E-08	3.27E-07	1.44E-10	0.00E+00	4.05E-07	1.06E-08	4.48E-08	2.14E-11	0.00E+00	5.54E-08	6.52E-09	2.06E-08	4.97E-12	0.00E+00	2.71E-08
60	420722.88	3734227.37	7.76E-08	3.28E-07	1.44E-10	0.00E+00	4.06E-07	1.06E-08	4.48E-08	2.14E-11	0.00E+00	5.55E-08	6.53E-09	2.06E-08	4.97E-12	0.00E+00	2.71E-08
61	420650.67	3734300.95	1.48E-07	6.23E-07	2.74E-10	0.00E+00	7.71E-07	2.02E-08	8.52E-08	4.07E-11	0.00E+00	1.06E-07	1.24E-08	3.92E-08	9.46E-12	0.00E+00	5.16E-08
62	420650.55	3734330.53	2.24E-07	9.45E-07	4.15E-10	0.00E+00	1.17E-06	3.07E-08	1.29E-07	6.18E-11	0.00E+00	1.60E-07	1.88E-08	5.94E-08	1.43E-11	0.00E+00	7.83E-08
63	420650.51	3734340.39	2.62E-07	1.11E-06	4.85E-10	0.00E+00	1.37E-06	3.59E-08	1.51E-07	7.23E-11	0.00E+00	1.87E-07	2.20E-08	6.95E-08	1.68E-11	0.00E+00	9.16E-08
64	420650.47	3734350.25	3.10E-07	1.31E-06	5.74E-10	0.00E+00	1.62E-06	4.24E-08	1.79E-07	8.54E-11	0.00E+00	2.21E-07	2.60E-08	8.22E-08	1.98E-11	0.00E+00	1.08E-07
65	420644.74	3734283.07	1.17E-07	4.94E-07	2.17E-10	0.00E+00	6.11E-07	1.60E-08	6.75E-08	3.23E-11	0.00E+00	8.35E-08	9.83E-09	3.10E-08	7.49E-12	0.00E+00	4.09E-08
66	420660.84	3734251.15	8.61E-08	3.63E-07	1.59E-10	0.00E+00	4.50E-07	1.18E-08	4.97E-08	2.37E-11	0.00E+00	6.15E-08	7.24E-09	2.28E-08	5.51E-12	0.00E+00	3.01E-08
67	420668.89	3734235.19	7.50E-08	3.17E-07	1.39E-10	0.00E+00	3.92E-07	1.03E-08	4.33E-08	2.07E-11	0.00E+00	5.36E-08	6.31E-09	1.99E-08	4.81E-12	0.00E+00	2.62E-08
68	420681.72	3734225.64	7.06E-08	2.98E-07	1.31E-10	0.00E+00	3.69E-07	9.68E-09	4.08E-08	1.95E-11	0.00E+00	5.05E-08	5.94E-09	1.87E-08	4.52E-12	0.00E+00	2.47E-08
69	420699.31	3734222.49	7.11E-08	3.00E-07	1.32E-10	0.00E+00	3.72E-07	9.75E-09	4.11E-08	1.96E-11	0.00E+00	5.08E-08	5.98E-09	1.89E-08	4.56E-12	0.00E+00	2.49E-08
70	420716.91	3734219.35	7.14E-08	3.01E-07	1.32E-10	0.00E+00	3.73E-07	9.79E-09	4.12E-08	1.97E-11	0.00E+00	5.10E-08	6.01E-09	1.89E-08	4.57E-12	0.00E+00	2.50E-08
71	420734.5	3734216.2	7.11E-08	3.00E-07	1.32E-10	0.00E+00	3.72E-07	9.75E-09	4.11E-08	1.96E-11	0.00E+00	5.08E-08	5.99E-09	1.89E-08	4.56E-12	0.00E+00	2.49E-08
72	420640.67	3734300.91	1.43E-07	6.06E-07	2.66E-10	0.00E+00	7.50E-07	1.97E-08	8.29E-08	3.96E-11	0.00E+00	1.03E-07	1.21E-08	3.81E-08	9.19E-12	0.00E+00	5.02E-08
73	420640.55	3734330.49	2.15E-07	9.09E-07	3.99E-10	0.00E+00	1.12E-06	2.95E-08	1.24E-07	5.94E-11	0.00E+00	1.54E-07	1.81E-08	5.71E-08	1.38E-11	0.00E+00	7.52E-08
74	420640.51	3734340.35	2.50E-07	1.06E-06	4.63E-10	0.00E+00	1.31E-06	3.43E-08	1.44E-07	6.90E-11	0.00E+00	1.79E-07	2.10E-08	6.63E-08	1.60E-11	0.00E+00	8.74E-08
75	420640.47	3734350.21	2.93E-07	1.24E-06	5.42E-10	0.00E+00	1.53E-06	4.01E-08	1.69E-07	8.08E-11	0.00E+00	2.09E-07	2.46E-08	7.77E-08	1.88E-11	0.00E+00	1.02E-07
76	420650.84	3734251.11	8.41E-08	3.55E-07	1.56E-10	0.00E+00	4.39E-07	1.15E-08	4.86E-08	2.32E-11	0.00E+00	6.01E-08	7.08E-09	2.23E-08	5.39E-12	0.00E+00	2.94E-08
77	420658.89	3734235.15	7.34E-08	3.10E-07	1.36E-10	0.00E+00	3.83E-07	1.01E-08	4.24E-08	2.03E-11	0.00E+00	5.25E-08	6.17E-09	1.95E-08	4.70E-12	0.00E+00	2.57E-08
78	420675.74	3734217.62	6.49E-08	2.74E-07	1.20E-10	0.00E+00	3.39E-07	8.90E-09	3.75E-08	1.79E-11	0.00E+00	4.64E-08	5.46E-09	1.72E-08	4.16E-12	0.00E+00	2.27E-08
79	420693.34	3734214.47	6.54E-08	2.76E-07	1.21E-10	0.00E+00	3.42E-07	8.97E-09	3.78E-08	1.81E-11	0.00E+00	4.68E-08	5.50E-09	1.74E-08	4.19E-12	0.00E+00	2.29E-08
80	420710.93	3734211.33	6.58E-08	2.78E-07	1.22E-10	0.00E+00	3.44E-07	9.02E-09	3.80E-08	1.81E-11	0.00E+00	4.70E-08	5.53E-09	1.75E-08	4.21E-12	0.00E+00	2.30E-08
81	420728.53	3734208.18	6.57E-08	2.78E-07	1.22E-10	0.00E+00	3.43E-07	9.01E-09	3.80E-08	1.81E-11	0.00E+00	4.70E-08	5.53E-09	1.74E-08	4.21E-12	0.00E+00	2.30E-08
82	420640.84	3734251.07	8.23E-08	3.48E-07	1.52E-10	0.00E+00	4.30E-07	1.13E-08	4.75E-08	2.27E-11	0.00E+00	5.88E-08	6.92E-09	2.18E-08	5.27E-12	0.00E+00	2.88E-08
83	420648.89	3734235.11	7.18E-08	3.03E-07	1.33E-10	0.00E+00	3.75E-07	9.85E-09	4.15E-08	1.98E-11	0.00E+00	5.13E-08	6.04E-09	1.91E-08	4.60E-12	0.00E+00	2.51E-08
84	420656.95	3734219.15	6.33E-08	2.67E-07	1.17E-10	0.00E+00	3.31E-07	8.67E-09	3.65E-08	1.75E-11	0.00E+00	4.52E-08	5.32E-09	1.68E-08	4.05E-12	0.00E+00	2.21E-08
85	420669.77	3734209.6	5.98E-08	2.53E-07	1.11E-10	0.00E+00	3.13E-07	8.20E-09	3.45E-08	1.65E-11	0.00E+00	4.28E-08	5.03E-09	1.59E-08	3.83E-12	0.00E+00	2.09E-08
86	420687.36	3734206.45	6.03E-08	2.55E-07	1.12E-10	0.00E+00	3.15E-07	8.27E-09	3.48E-08	1.66E-11	0.00E+00	4.31E-08	5.08E-09	1.60E-08	3.86E-12	0.00E+00	2.11E-08
87	420704.96	3734203.31	6.07E-08	2.56E-07	1.13E-10	0.00E+00	3.17E-07	8.33E-09	3.51E-08	1.68E-11	0.00E+00	4.34E-08	5.11E-09	1.61E-08	3.89E-12	0.00E+00	2.12E-08
88	420722.55	3734200.16	6.08E-08	2.57E-07	1.13E-10	0.00E+00	3.18E-07	8.34E-09	3.51E-08	1.68E-11	0.00E+00	4.35E-08	5.12E-09	1.61E-08	3.90E-12	0.00E+00	2.13E-08

89	420635.85	3734221.25	6.18E-08	2.61E-07	1.15E-10	0.00E+00	3.23E-07	8.48E-09	3.57E-08	1.71E-11	0.00E+00	4.42E-08	5.20E-09	1.64E-08	3.96E-12	0.00E+00	2.16E-08
90	420640.24	3734212.54	5.79E-08	2.44E-07	1.07E-10	0.00E+00	3.02E-07	7.93E-09	3.34E-08	1.60E-11	0.00E+00	4.14E-08	4.87E-09	1.54E-08	3.71E-12	0.00E+00	2.02E-08
91	420644.63	3734203.84	5.43E-08	2.29E-07	1.01E-10	0.00E+00	2.84E-07	7.44E-09	3.13E-08	1.50E-11	0.00E+00	3.88E-08	4.57E-09	1.44E-08	3.48E-12	0.00E+00	1.90E-08
92	420658.62	3734193.42	5.13E-08	2.16E-07	9.50E-11	0.00E+00	2.68E-07	7.03E-09	2.96E-08	1.41E-11	0.00E+00	3.66E-08	4.31E-09	1.36E-08	3.28E-12	0.00E+00	1.79E-08
93	420668.22	3734191.7	5.15E-08	2.18E-07	9.54E-11	0.00E+00	2.69E-07	7.06E-09	2.97E-08	1.42E-11	0.00E+00	3.68E-08	4.33E-09	1.37E-08	3.30E-12	0.00E+00	1.80E-08
94	420677.82	3734189.99	5.18E-08	2.19E-07	9.59E-11	0.00E+00	2.70E-07	7.10E-09	2.99E-08	1.43E-11	0.00E+00	3.70E-08	4.35E-09	1.37E-08	3.32E-12	0.00E+00	1.81E-08
95	420687.41	3734188.27	5.20E-08	2.20E-07	9.63E-11	0.00E+00	2.72E-07	7.13E-09	3.00E-08	1.43E-11	0.00E+00	3.72E-08	4.37E-09	1.38E-08	3.33E-12	0.00E+00	1.82E-08
96	420697.01	3734186.55	5.22E-08	2.20E-07	9.67E-11	0.00E+00	2.73E-07	7.15E-09	3.01E-08	1.44E-11	0.00E+00	3.73E-08	4.39E-09	1.39E-08	3.34E-12	0.00E+00	1.82E-08
97	420706.61	3734184.84	5.23E-08	2.21E-07	9.70E-11	0.00E+00	2.73E-07	7.17E-09	3.02E-08	1.44E-11	0.00E+00	3.74E-08	4.40E-09	1.39E-08	3.35E-12	0.00E+00	1.83E-08
98	420716.2	3734183.12	5.24E-08	2.21E-07	9.71E-11	0.00E+00	2.74E-07	7.18E-09	3.03E-08	1.45E-11	0.00E+00	3.75E-08	4.41E-09	1.39E-08	3.36E-12	0.00E+00	1.83E-08
99	420725.8	3734181.4	5.24E-08	2.21E-07	9.71E-11	0.00E+00	2.74E-07	7.18E-09	3.03E-08	1.45E-11	0.00E+00	3.74E-08	4.41E-09	1.39E-08	3.36E-12	0.00E+00	1.83E-08
100	420735.4	3734179.69	5.23E-08	2.21E-07	9.69E-11	0.00E+00	2.73E-07	7.17E-09	3.02E-08	1.44E-11	0.00E+00	3.74E-08	4.40E-09	1.39E-08	3.35E-12	0.00E+00	1.83E-08
101	420600.71	3734290.88	1.14E-07	4.80E-07	2.11E-10	0.00E+00	5.94E-07	1.56E-08	6.56E-08	3.14E-11	0.00E+00	8.12E-08	9.56E-09	3.02E-08	7.28E-12	0.00E+00	3.97E-08
102	420600.67	3734300.74	1.27E-07	5.35E-07	2.35E-10	0.00E+00	6.62E-07	1.74E-08	7.31E-08	3.50E-11	0.00E+00	9.05E-08	1.07E-08	3.36E-08	8.11E-12	0.00E+00	4.43E-08
103	420600.63	3734310.6	1.42E-07	5.98E-07	2.62E-10	0.00E+00	7.39E-07	1.94E-08	8.17E-08	3.91E-11	0.00E+00	1.01E-07	1.19E-08	3.76E-08	9.07E-12	0.00E+00	4.95E-08
104	420600.59	3734320.46	1.58E-07	6.69E-07	2.94E-10	0.00E+00	8.28E-07	2.17E-08	9.15E-08	4.37E-11	0.00E+00	1.13E-07	1.33E-08	4.20E-08	1.01E-11	0.00E+00	5.54E-08
105	420600.55	3734330.32	1.78E-07	7.50E-07	3.29E-10	0.00E+00	9.28E-07	2.43E-08	1.03E-07	4.90E-11	0.00E+00	1.27E-07	1.49E-08	4.71E-08	1.14E-11	0.00E+00	6.21E-08
106	420600.51	3734340.18	1.99E-07	8.41E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.49E-11	0.00E+00	1.42E-07	1.68E-08	5.28E-08	1.28E-11	0.00E+00	6.96E-08
107	420600.47	3734350.04	2.23E-07	9.42E-07	4.13E-10	0.00E+00	1.17E-06	3.06E-08	1.29E-07	6.16E-11	0.00E+00	1.59E-07	1.88E-08	5.92E-08	1.43E-11	0.00E+00	7.80E-08
108	420602.39	3734247.84	7.37E-08	3.11E-07	1.37E-10	0.00E+00	3.85E-07	1.01E-08	4.25E-08	2.03E-11	0.00E+00	5.27E-08	6.20E-09	1.96E-08	4.72E-12	0.00E+00	2.58E-08
109	420606.73	3734239.25	6.88E-08	2.90E-07	1.27E-10	0.00E+00	3.59E-07	9.43E-09	3.97E-08	1.90E-11	0.00E+00	4.91E-08	5.78E-09	1.82E-08	4.40E-12	0.00E+00	2.40E-08
110	420646.55	3734177.4	4.44E-08	1.87E-07	8.22E-11	0.00E+00	2.32E-07	6.08E-09	2.56E-08	1.22E-11	0.00E+00	3.17E-08	3.73E-09	1.18E-08	2.84E-12	0.00E+00	1.55E-08
111	420656.02	3734175.71	4.45E-08	1.88E-07	8.25E-11	0.00E+00	2.33E-07	6.11E-09	2.57E-08	1.23E-11	0.00E+00	3.18E-08	3.75E-09	1.18E-08	2.85E-12	0.00E+00	1.56E-08
112	420665.5	3734174.01	4.47E-08	1.89E-07	8.29E-11	0.00E+00	2.34E-07	6.13E-09	2.58E-08	1.23E-11	0.00E+00	3.20E-08	3.76E-09	1.19E-08	2.87E-12	0.00E+00	1.56E-08
113	420674.97	3734172.32	4.50E-08	1.90E-07	8.33E-11	0.00E+00	2.35E-07	6.16E-09	2.60E-08	1.24E-11	0.00E+00	3.21E-08	3.78E-09	1.19E-08	2.88E-12	0.00E+00	1.57E-08
114	420684.45	3734170.62	4.52E-08	1.91E-07	8.37E-11	0.00E+00	2.36E-07	6.19E-09	2.61E-08	1.25E-11	0.00E+00	3.23E-08	3.80E-09	1.20E-08	2.89E-12	0.00E+00	1.58E-08
115	420580.71	3734290.8	1.06E-07	4.48E-07	1.97E-10	0.00E+00	5.54E-07	1.45E-08	6.12E-08	2.93E-11	0.00E+00	7.58E-08	8.92E-09	2.81E-08	6.80E-12	0.00E+00	3.71E-08
116	420580.67	3734300.66	1.17E-07	4.95E-07	2.17E-10	0.00E+00	6.13E-07	1.61E-08	6.77E-08	3.24E-11	0.00E+00	8.38E-08	9.87E-09	3.11E-08	7.51E-12	0.00E+00	4.10E-08
117	420580.63	3734310.52	1.29E-07	5.47E-07	2.40E-10	0.00E+00	6.77E-07	1.78E-08	7.48E-08	3.57E-11	0.00E+00	9.26E-08	1.09E-08	3.44E-08	8.30E-12	0.00E+00	4.53E-08
118	420580.59	3734320.38	1.43E-07	6.04E-07	2.65E-10	0.00E+00	7.47E-07	1.96E-08	8.25E-08	3.94E-11	0.00E+00	1.02E-07	1.20E-08	3.79E-08	9.16E-12	0.00E+00	5.00E-08
119	420580.55	3734330.24	1.58E-07	6.66E-07	2.92E-10	0.00E+00	8.23E-07	2.16E-08	9.10E-08	4.35E-11	0.00E+00	1.13E-07	1.33E-08	4.18E-08	1.01E-11	0.00E+00	5.51E-08
120	420580.51	3734340.1	1.73E-07	7.33E-07	3.21E-10	0.00E+00	9.06E-07	2.38E-08	1.00E-07	4.79E-11	0.00E+00	1.24E-07	1.46E-08	4.60E-08	1.11E-11	0.00E+00	6.06E-08
121	420580.47	3734349.96	1.90E-07	8.04E-07	3.53E-10	0.00E+00	9.94E-07	2.61E-08	1.10E-07	5.25E-11	0.00E+00	1.36E-07	1.60E-08	5.05E-08	1.22E-11	0.00E+00	6.65E-08
122	420582.18	3734248.17	7.07E-08	2.99E-07	1.31E-10	0.00E+00	3.69E-07	9.69E-09	4.08E-08	1.95E-11	0.00E+00	5.05E-08	5.95E-09	1.88E-08	4.53E-12	0.00E+00	2.47E-08
123	420586.48	3734239.66	6.62E-08	2.80E-07	1.23E-10	0.00E+00	3.46E-07	9.08E-09	3.82E-08	1.83E-11	0.00E+00	4.73E-08	5.57E-09	1.76E-08	4.24E-12	0.00E+00	2.32E-08
124	420590.77	3734231.14	6.22E-08	2.63E-07	1.15E-10	0.00E+00	3.25E-07	8.53E-09	3.59E-08	1.72E-11	0.00E+00	4.45E-08	5.23E-09	1.65E-08	3.98E-12	0.00E+00	2.17E-08
125	420595.07	3734222.63	5.83E-08	2.46E-07	1.08E-10	0.00E+00	3.04E-07	7.99E-09	3.36E-08	1.61E-11	0.00E+00	4.17E-08	4.90E-09	1.55E-08	3.73E-12	0.00E+00	2.04E-08
126	420599.36	3734214.12	5.47E-08	2.31E-07	1.01E-10	0.00E+00	2.86E-07	7.49E-09	3.16E-08	1.51E-11	0.00E+00	3.91E-08	4.60E-09	1.45E-08	3.50E-12	0.00E+00	1.91E-08
127	420603.66	3734205.61	5.14E-08	2.17E-07	9.52E-11	0.00E+00	2.69E-07	7.05E-09	2.97E-08	1.42E-11	0.00E+00	3.67E-08	4.32E-09	1.36E-08	3.29E-12	0.00E+00	1.80E-08
128	420607.95	3734197.1	4.84E-08	2.04E-07	8.97E-11	0.00E+00	2.53E-07	6.63E-09	2.79E-08	1.34E-11	0.00E+00	3.46E-08	4.07E-09	1.28E-08	3.10E-12	0.00E+00	1.69E-08
129	420700.2	3734149.63	3.98E-08	1.68E-07	7.38E-11	0.00E+00	2.08E-07	5.46E-09	2.30E-08	1.10E-11	0.00E+00	2.85E-08	3.35E-09	1.06E-08	2.55E-12	0.00E+00	1.39E-08
130	420709.58	3734147.95	3.99E-08	1.69E-07	7.40E-11	0.00E+00	2.09E-07	5.47E-09	2.30E-08	1.10E-11	0.00E+00	2.85E-08	3.36E-09	1.06E-08	2.56E-12	0.00E+00	1.40E-08
131	420718.97	3734146.27	4.00E-08	1.69E-07	7.41E-11	0.00E+00	2.09E-07	5.48E-09	2.31E-08	1.10E-11	0.00E+00	2.86E-08	3.36E-09	1.06E-08	2.56E-12	0.00E+00	1.40E-08
132	420728.35	3734144.59	4.00E-08	1.69E-07	7.40E-11	0.00E+00	2.09E-07	5.48E-09	2.31E-08	1.10E-11	0.00E+00	2.86E-08	3.36E-09	1.06E-08	2.56E-12	0.00E+00	1.40E-08
133	420737.74	3734142.92	3.99E-08	1.68E-07	7.39E-11	0.00E+00	2.08E-07	5.47E-09	2.30E-08	1.10E-11	0.00E+00	2.85E-08	3.36E-09	1.06E-08	2.56E-12	0.00E+00	1.39E-08
134	420756.5	3734139.56	3.96E-08	1.67E-07	7.33E-11	0.00E+00	2.07E-07	5.43E-09	2.29E-08	1.09E-11	0.00E+00	2.83E-08	3.33E-09	1.05E-08	2.54E-12	0.00E+00	1.38E-08
135	420560.71	3734290.72	9.77E-08	4.12E-07	1.81E-10	0.00E+00	5.10E-07	1.34E-08	5.64E-08	2.70E-11	0.00E+00	6.98E-08	8.22E-09	2.59E-08	6.26E-12	0.00E+00	3.41E-08
136	420560.67	3734300.58	1.07E-07	4.53E-07	1.99E-10	0.00E+00	5.60E-07	1.47E-08	6.19E-08	2.96E-11	0.00E+00	7.67E-08	9.03E-09	2.85E-08	6.87E-12	0.00E+00	3.75E-08
137	420560.63	3734310.44	1.17E-07	4.94E-07	2.17E-10	0.00E+00	6.11E-07	1.60E-08	6.76E-08	3.23E-11	0.00E+00	8.36E-08	9.85E-09	3.11E-08	7.50E-12	0.00E+00	4.09E-08
138	420560.59	3734320.3	1.27E-07	5.38E-07	2.36E-10	0.00E+00	6.65E-07	1.75E-08	7.35E-08	3.51E-11	0.00E+00	9.10E-08	1.07E-08	3.38E-08	8.16E-12	0.00E+00	4.45E-08
139	420560.55	3734330.16	1.38E-07	5.84E-07	2.56E-10	0.00E+00	7.22E-07	1.89E-08	7.98E-08	3.81E-11	0.00E+00	9.88E-08	1.16E-08	3.67E-08	8.85E-12	0.00E+00	4.83E-08
140	420560.51	3734340.02	1.50E-07	6.31E-07	2.77E-10	0.00E+00	7.81E-07	2.05E-08	8.63E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.97E-08	9.58E-12	0.00E+00	5.23E-08
141	420560.47	3734349.88	1.61E-07	6.80E-07	2.98E-10	0.00E+00	8.41E-07	2.21E-08	9.30E-08	4.44E-11	0.00E+00	1.15E-07	1.35E-08	4.27E-08	1.03E-11	0.00E+00	5.63E-08
142	420562.03	3734248.4	6.75E-08	2.85E-07	1.25E-10	0.00E+00	3.53E-07	9.26E-09	3.90E-08	1.86E-11	0.00E+00	4.83E-08	5.68E-09	1.79E-08	4.33E-12	0.00E+00	2.36E-08
143	420566.29	3734239.95	6.37E-08	2.69E-07	1.18E-10	0.00E+00	3.33E-07	8.73E-09	3.68E-08	1.76E-11	0.00E+00	4.55E-08	5.36E-09	1.69E-08	4.08E-12	0.00E+00	2.23E-08
144	420570.55	3734231.5	5.99E-08	2.53E-07	1.11E-10	0.00E+00	3.13E-07	8.21E-09	3.46E-08	1.65E-11	0.00E+00	4.28E-08	5.04E-09	1.59E-08	3.84E-12	0.00E+00	2.09E-08
145	420574.81	3734223.05	5.63E-08	2.38E-07	1.04E-10	0.00E+00	2.94E-07	7.72E-09	3.25E-08	1.55E-11	0.00E+00	4.03E-08	4.74E-09	1.49E-08	3.61E-12	0.00E+00	1.97E-08
146	420579.08	3734214.61	5.32E-08	2.25E-07	9.86E-11	0.00E+00	2.78E-07	7.30E-09	3.07E-08	1.47E-11	0.00E+00	3.81E-08	4.48E-09	1.41E-08	3.41E-12	0.00E+00	1.86E-08
147	420583.34	3734206.16	5.01E-08	2.12E-07	9.29E-11	0.00E+00	2.62E-07	6.87E-09	2.89E-08	1.38E-11	0.00E+00	3.58E-08	4.22E-09	1.33E-08	3.21E-12	0.00E+00	1.75E-08
148	420587.6	3734197.71	4.72E-08	1.99E-07	8.75E-11	0.00E+00	2.47E-07	6.47E-09	2.73E-08	1.30E-11	0.00E+00	3.38E-08	3.97E-09	1.25E-08	3.03E-12	0.00E+00	1.65E-08
149	420591.87	3734189.26	4.46E-08	1.88E-07	8.26E-11	0.00E+00	2.33E-07	6.11E-09	2.57E-08	1.23E-11	0.00E+00	3.18E-08	3.75E-09	1.18E-08	2.85E-12	0.00E+00	1.56E-08
150	420596.13	3734180.81	4.21E-08	1.78E-07	7.80E-11	0.00E+00	2.20E-07	5.77E-09	2.43E-08	1.16E-11	0.00E+00	3.01E-08	3.54E-09	1.12E-08	2.70E-12	0.00E+00	1.47E-08
151	420600.39	3734172.36	3.98E-08	1.68E-07	7.38E-11	0.00E+00	2.08E-07	5.46E-09	2.30E-08	1.10E-11	0.00E+00	2.85E-08	3.35E-09	1.06E-08	2.55E-12	0.00E+00	1.39E-08
152	420631.81	3734143.69	3.42E-08	1.44E-07	6.33E-11	0.00E+00	1.79E-07	4.68E-09	1.97E-08	9.43E-12	0.00E+00	2.44E-08	2.87E-09	9.07E-09	2.19E-12	0.00E+00	1.19E-08
153	420641.12	3734142.02	3.43E-08	1.45E-07	6.35E-11	0.00E+00	1.79E-07	4.70E-09	1.98E-08	9.46E-12	0.00E+00	2.45E-08	2.88E-09	9.10E-09	2.20E-12	0.00E+00	1.20E-08
154	420650.44	3734140.35	3.44E-08	1.45E-07	6.38E-11	0.00E+00	1.80E-07	4.72E-09	1.99E-08	9.50E-12	0.00E+00	2.46E-08	2.90E-09	9.14E-09	2.21E-12	0.00E+00	1.20E-08
155	420659.75	3734138.69	3.46E-08	1.46E-07	6.41E-11	0.00E+00	1.81E-07	4.74E-09	2.00E-08	9.54E-12	0.00E+00	2.47E-08	2.91E-09	9.17E-09	2.21E-12	0.00E+00	1.21E-08
156	420669.07	3734137.02	3.47E-08	1.47E-07	6.43E-11	0.00E+00	1.81E-07	4.76E-09	2.00E-08	9.58E-12	0.00E+00	2.48E-08	2.92E-09	9.21E-09	2.22E-12	0.00E+00	1.21E-08
157	420678.39	3734135.36	3.49E-08	1.47E-07	6.46E-11	0.00E+00	1.82E-07	4.78E-09	2.01E-08	9.62E-12	0.00E+00	2.49E-08	2.93E-09	9.25E-09	2.23E-12	0.00E+00	1.22E-08
158	420687.7	3734133.69	3.50E-08	1.48E-07	6.49E-11	0.00E+00	1.83E-07	4.80E-09	2.02E-08	9.66E-12	0.00E+00	2.50E-08	2.94E-09	9.29E-09	2.24E-12	0.00E+00	1.22E-08
159	420697.02	3734132.02	3.51E-08	1.48E-07	6.51E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.69E-12	0.00E+00	2.51E-08	2.96E-09	9.32E-09	2.25E-12	0.00E+00	1.23E-08
160	420706.33	3734130.36	3.52E-08	1.49E-07	6.53E-11	0.00E+00	1.84E-07	4.83E-09	2.03E-08	9.72E-12	0.00E+00	2.52E-08	2.96E-09	9.35E-09	2.26E-12	0.00E+00	1.23E-08
161	420715.65	3734128.69	3.53E-08	1.49E-07	6.54E-11	0.00E+00	1.84E-07	4.84E-09	2.04E-08	9.74E-12	0.00E+00	2.52E-08	2.97E-09	9.37E-09	2.26E-12	0.00E+00	1.23E-08
162	420724.96	3734127.03	3.53E-08	1.49E-07	6.54E-11	0.00E+00	1.84E-07	4.84E-09	2.04E-08	9.74E-12	0.00E+00	2.52E-08	2.97E-09	9.37E-09	2.26E-12	0.00E+00	1.23E-08
163	420734.28	3734125.36	3.53E-08	1.49E-07	6.54E-11	0.00E+00	1.84E-07	4.84E-09	2.04E-08	9.74E-12	0.00E+00	2.52E-08	2.97E-09	9.36E-09	2.26E-12	0.00E+00	1.23E-08
164	420762.22	3734120.36	3.49E-08	1.48E-07	6.47E-11	0.00E+00	1.82E-07	4.79E-09	2.02E-08	9.64E-12	0.00E+00	2.50E-08	2.94E-09	9.27E-09	2.24E-12	0.00E+00	1.22E-08
165	420540.71	3734290.64	8.97E-08	3.79E-07	1.66E-10	0.00E+00	4.69E-07	1.23E-08	5.18E-08	2.48E-11	0.00E+00	6.41E-08	7.55E-09	2.38E-08	5.75E-12	0.00E+00	3.14E-08
166	420540.67	3734300.5	9.72E-08	4.11E-07	1.80E-10	0.00E+00	5.08E-07	1.33E-08	5.61E-08	2.68E-11	0.00E+00	6.95E-08	8.18E-09	2.58E-08	6.23E-12	0.00E+00	3.40E-08
167	420540.63	3734310.36	1.05E-07	4.42E-07	1.94E-10	0.00E+00	5.47E-07	1.44E-08	6.04E-08	2.89E-11	0.00E+00	7.48E-08	8.81E-09	2.78E-08	6.71E-12	0.00E+00	3.66E-08
168	420540.59	3734320.22	1.12E-07	4.74E-07	2.08E-10	0.00E+00	5.87E-07	1.54E-08	6.49E-08	3.10E-11	0.00E+00	8.03E-08	9.45E-09	2.98E-08	7.20E-12	0.00E+00	3.93E-08
169	420540.55	3734330.08	1.20E-07	5.07E-07	2.23E-10	0.00E+00	6.28E-07	1.65E-08	6.94E-08	3.32E-11	0.00E+00	8.59E-08	1.01E-08	3.19E-08	7.70E-12	0.00E+00	4.20E-08
170	420540.51	3734339.94	1.28E-07	5.41E-07	2.37E-10	0.00E+00	6.69E-07	1.75E-08	7.39E-08	3.53E-11	0.00E+00	9.15E-08	1.08E-08	3.40E-08	8.20E-12	0.00E+00	4.48E-08
171	420540.47	3734349.8	1.36E-07	5.73E-07	2.51E-10	0.00E+00	7.09E-07	1.86E-08	7.83E-08	3.74E-11	0.00E+00	9.70E-08	1.14E-08	3.60E-08	8.69E-12	0.00E+00	4.74E-08
172	420541.9	3734248.56	6.36E-08	2.69E-07	1.18E-10	0.00E+00	3.32E-07	8.72E-09	3.67E-08	1.76E-11	0.00E+00	4.55E-08	5.35E-09	1.69E-08	4.08E-12	0.00E+00	2.22E-08
173	420546.14	3734240.17	6.07E-08	2.56E-07	1.12E-10	0.00E+00	3.17E-07	8.32E-09	3.50E-08	1.67E-11	0.00E+00	4.34E-08	5.11E-09	1.61E-08	3.89E-12	0.00E+00	2.12E-08
174	420550.38	3734231.77	5.77E-08	2.44E-07	1.07E-10	0.00E+00	3.02E-07	7.91E-09	3.33E-08	1.59E-11	0.00E+00	4.13E-08	4.86E-09	1.53E-08	3.70E-12	0.00E+00	2.02E-08
175	420554.61	3734223.37	5.48E-08	2.31E-07	1.02E-10	0.00E+00	2.86E-07	7.51E-09	3.16E-08	1.51E-11	0.00E+00	3.92E-08	4.61E-09	1.45E-08	3.51E-12	0.00E+00	1.91E-08
176	420558.85	3734214.97	5.18E-08	2.19E-07	9.59E-11	0.00E+00	2.70E-07	7.10E-09	2.99E-08	1.43E-11	0.00E+00	3.70E-08	4.36E-09	1.37E-08	3.32E-12	0.00E+00	1.81E-08
177	420563.09	3734206.57	4.88E-08	2.06E-07	9.05E-11	0.00E+00	2.55E-07	6.69E-09	2.82E-08	1.35E-11	0.00E+00	3.49E-08	4.11E-09	1.30E-08	3.13E-12	0.00E+00	1.71E-08
178	420567.33	3734198.17	4.61E-08	1.95E-07	8.54E-11	0.00E+00	2.41E-07	6.32E-09	2.66E-08	1.27E-11	0.00E+00	3.30E-08	3.88E-09	1.22E-08	2.95E-12	0.00E+00	1.61E-08
179	420571.57	3734189.77	4.36E-08	1.84E-07	8.07E-11	0.00E+00	2.28E-07	5.97E-09	2.51E-08	1.20E-11	0.00E+00	3.11E-08	3.66E-09	1.16E-08	2.79E-12	0.00E+00	1.52E-08
180	420575.8	3734181.37	4.12E-08	1.74E-07	7.63E-11	0.00E+00	2.15E-07	5.65E-09	2.38E-08	1.14E-11	0.00E+00	2.94E-08	3.46E-09	1.09E-08	2.64E-12	0.00E+00	1.44E-08

181	420580.04	3734172.97	3.90E-08	1.65E-07	7.22E-11	0.00E+00	2.04E-07	5.34E-09	2.25E-08	1.08E-11	0.00E+00	2.79E-08	3.28E-09	1.03E-08	2.50E-12	0.00E+00	1.36E-08
182	420592.76	3734147.78	3.33E-08	1.41E-07	6.17E-11	0.00E+00	1.74E-07	4.56E-09	1.92E-08	9.18E-12	0.00E+00	2.38E-08	2.80E-09	8.83E-09	2.13E-12	0.00E+00	1.16E-08
183	420596.99	3734139.38	3.17E-08	1.34E-07	5.87E-11	0.00E+00	1.65E-07	4.34E-09	1.83E-08	8.74E-12	0.00E+00	2.26E-08	2.66E-09	8.40E-09	2.03E-12	0.00E+00	1.11E-08
184	420610.49	3734129.32	3.02E-08	1.28E-07	5.60E-11	0.00E+00	1.58E-07	4.14E-09	1.74E-08	8.33E-12	0.00E+00	2.16E-08	2.54E-09	8.01E-09	1.93E-12	0.00E+00	1.06E-08
185	420638.27	3734124.35	3.05E-08	1.29E-07	5.64E-11	0.00E+00	1.59E-07	4.17E-09	1.76E-08	8.40E-12	0.00E+00	2.18E-08	2.56E-09	8.08E-09	1.95E-12	0.00E+00	1.06E-08
186	420647.53	3734122.7	3.06E-08	1.29E-07	5.67E-11	0.00E+00	1.60E-07	4.19E-09	1.77E-08	8.44E-12	0.00E+00	2.19E-08	2.57E-09	8.11E-09	1.96E-12	0.00E+00	1.07E-08
187	420656.8	3734121.04	3.07E-08	1.30E-07	5.69E-11	0.00E+00	1.60E-07	4.21E-09	1.77E-08	8.47E-12	0.00E+00	2.19E-08	2.58E-09	8.15E-09	1.97E-12	0.00E+00	1.07E-08
188	420666.06	3734119.39	3.08E-08	1.30E-07	5.71E-11	0.00E+00	1.61E-07	4.23E-09	1.78E-08	8.51E-12	0.00E+00	2.20E-08	2.59E-09	8.19E-09	1.98E-12	0.00E+00	1.08E-08
189	420675.32	3734117.73	3.10E-08	1.31E-07	5.74E-11	0.00E+00	1.62E-07	4.25E-09	1.79E-08	8.55E-12	0.00E+00	2.21E-08	2.61E-09	8.22E-09	1.98E-12	0.00E+00	1.08E-08
190	420684.58	3734116.07	3.11E-08	1.31E-07	5.76E-11	0.00E+00	1.62E-07	4.26E-09	1.80E-08	8.58E-12	0.00E+00	2.22E-08	2.62E-09	8.25E-09	1.99E-12	0.00E+00	1.09E-08
191	420693.84	3734114.42	3.12E-08	1.32E-07	5.78E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.61E-12	0.00E+00	2.23E-08	2.63E-09	8.28E-09	2.00E-12	0.00E+00	1.09E-08
192	420703.1	3734112.76	3.13E-08	1.32E-07	5.80E-11	0.00E+00	1.64E-07	4.29E-09	1.81E-08	8.64E-12	0.00E+00	2.24E-08	2.63E-09	8.31E-09	2.00E-12	0.00E+00	1.09E-08
193	420712.36	3734111.1	3.14E-08	1.32E-07	5.81E-11	0.00E+00	1.64E-07	4.30E-09	1.81E-08	8.65E-12	0.00E+00	2.24E-08	2.64E-09	8.32E-09	2.01E-12	0.00E+00	1.10E-08
194	420721.62	3734109.45	3.14E-08	1.33E-07	5.82E-11	0.00E+00	1.64E-07	4.30E-09	1.81E-08	8.66E-12	0.00E+00	2.24E-08	2.64E-09	8.33E-09	2.01E-12	0.00E+00	1.10E-08
195	420730.88	3734107.79	3.14E-08	1.33E-07	5.82E-11	0.00E+00	1.64E-07	4.30E-09	1.81E-08	8.66E-12	0.00E+00	2.24E-08	2.64E-09	8.33E-09	2.01E-12	0.00E+00	1.10E-08
196	420758.66	3734102.82	3.12E-08	1.32E-07	5.78E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.61E-12	0.00E+00	2.23E-08	2.62E-09	8.28E-09	2.00E-12	0.00E+00	1.09E-08
197	420767.92	3734101.16	3.10E-08	1.31E-07	5.75E-11	0.00E+00	1.62E-07	4.26E-09	1.79E-08	8.57E-12	0.00E+00	2.22E-08	2.61E-09	8.24E-09	1.99E-12	0.00E+00	1.09E-08
198	420520.71	3734290.56	8.20E-08	3.46E-07	1.52E-10	0.00E+00	4.28E-07	1.12E-08	4.73E-08	2.26E-11	0.00E+00	5.86E-08	6.90E-09	2.18E-08	5.25E-12	0.00E+00	2.87E-08
199	420520.67	3734300.42	8.74E-08	3.69E-07	1.62E-10	0.00E+00	4.57E-07	1.20E-08	5.05E-08	2.41E-11	0.00E+00	6.25E-08	7.35E-09	2.32E-08	5.60E-12	0.00E+00	3.06E-08
200	420520.63	3734310.28	9.30E-08	3.93E-07	1.72E-10	0.00E+00	4.86E-07	1.27E-08	5.37E-08	2.57E-11	0.00E+00	6.65E-08	7.82E-09	2.47E-08	5.96E-12	0.00E+00	3.25E-08
201	420520.59	3734320.14	9.85E-08	4.16E-07	1.83E-10	0.00E+00	5.15E-07	1.35E-08	5.69E-08	2.72E-11	0.00E+00	7.04E-08	8.29E-09	2.62E-08	6.31E-12	0.00E+00	3.44E-08
202	420520.55	3734330	1.04E-07	4.39E-07	1.93E-10	0.00E+00	5.43E-07	1.43E-08	6.01E-08	2.87E-11	0.00E+00	7.43E-08	8.75E-09	2.76E-08	6.66E-12	0.00E+00	3.64E-08
203	420520.51	3734339.86	1.09E-07	4.62E-07	2.03E-10	0.00E+00	5.71E-07	1.50E-08	6.31E-08	3.02E-11	0.00E+00	7.81E-08	9.20E-09	2.90E-08	7.00E-12	0.00E+00	3.82E-08
204	420520.47	3734349.72	1.14E-07	4.83E-07	2.12E-10	0.00E+00	5.97E-07	1.57E-08	6.60E-08	3.15E-11	0.00E+00	8.17E-08	9.62E-09	3.03E-08	7.32E-12	0.00E+00	4.00E-08
205	420522.85	3734246.59	6.02E-08	2.54E-07	1.12E-10	0.00E+00	3.15E-07	8.26E-09	3.48E-08	1.66E-11	0.00E+00	4.30E-08	5.07E-09	1.60E-08	3.86E-12	0.00E+00	2.11E-08
206	420527.28	3734237.82	5.74E-08	2.43E-07	1.06E-10	0.00E+00	3.00E-07	7.87E-09	3.32E-08	1.58E-11	0.00E+00	4.11E-08	4.83E-09	1.52E-08	3.68E-12	0.00E+00	2.01E-08
207	420531.71	3734229.04	5.47E-08	2.31E-07	1.01E-10	0.00E+00	2.86E-07	7.50E-09	3.16E-08	1.51E-11	0.00E+00	3.91E-08	4.61E-09	1.45E-08	3.51E-12	0.00E+00	1.91E-08
208	420536.14	3734220.26	5.18E-08	2.19E-07	9.60E-11	0.00E+00	2.71E-07	7.10E-09	2.99E-08	1.43E-11	0.00E+00	3.70E-08	4.36E-09	1.37E-08	3.32E-12	0.00E+00	1.81E-08
209	420540.57	3734211.49	4.89E-08	2.07E-07	9.07E-11	0.00E+00	2.56E-07	6.71E-09	2.83E-08	1.35E-11	0.00E+00	3.50E-08	4.12E-09	1.30E-08	3.14E-12	0.00E+00	1.71E-08
210	420545	3734202.71	4.62E-08	1.95E-07	8.56E-11	0.00E+00	2.41E-07	6.34E-09	2.67E-08	1.28E-11	0.00E+00	3.30E-08	3.89E-09	1.23E-08	2.96E-12	0.00E+00	1.62E-08
211	420549.43	3734193.93	4.36E-08	1.84E-07	8.08E-11	0.00E+00	2.28E-07	5.98E-09	2.52E-08	1.20E-11	0.00E+00	3.12E-08	3.67E-09	1.16E-08	2.80E-12	0.00E+00	1.53E-08
212	420553.86	3734185.16	4.12E-08	1.74E-07	7.63E-11	0.00E+00	2.15E-07	5.65E-09	2.38E-08	1.14E-11	0.00E+00	2.94E-08	3.47E-09	1.09E-08	2.64E-12	0.00E+00	1.44E-08
213	420558.28	3734176.38	3.89E-08	1.64E-07	7.21E-11	0.00E+00	2.03E-07	5.34E-09	2.25E-08	1.07E-11	0.00E+00	2.78E-08	3.27E-09	1.03E-08	2.49E-12	0.00E+00	1.36E-08
214	420576	3734141.27	3.13E-08	1.32E-07	5.80E-11	0.00E+00	1.64E-07	4.29E-09	1.81E-08	8.64E-12	0.00E+00	2.24E-08	2.63E-09	8.31E-09	2.00E-12	0.00E+00	1.09E-08
215	420580.43	3734132.49	2.97E-08	1.26E-07	5.51E-11	0.00E+00	1.55E-07	4.08E-09	1.72E-08	8.20E-12	0.00E+00	2.12E-08	2.50E-09	7.89E-09	1.90E-12	0.00E+00	1.04E-08
216	420584.86	3734123.72	2.83E-08	1.19E-07	5.24E-11	0.00E+00	1.48E-07	3.88E-09	1.63E-08	7.80E-12	0.00E+00	2.02E-08	2.38E-09	7.50E-09	1.81E-12	0.00E+00	9.88E-09
217	420598.96	3734113.21	2.70E-08	1.14E-07	5.00E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.44E-12	0.00E+00	1.93E-08	2.27E-09	7.15E-09	1.73E-12	0.00E+00	9.42E-09
218	420608.64	3734111.48	2.70E-08	1.14E-07	5.00E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.45E-12	0.00E+00	1.93E-08	2.27E-09	7.17E-09	1.73E-12	0.00E+00	9.44E-09
219	420637.67	3734106.29	2.72E-08	1.15E-07	5.05E-11	0.00E+00	1.42E-07	3.73E-09	1.57E-08	7.52E-12	0.00E+00	1.95E-08	2.29E-09	7.23E-09	1.75E-12	0.00E+00	9.52E-09
220	420647.35	3734104.56	2.74E-08	1.16E-07	5.07E-11	0.00E+00	1.43E-07	3.75E-09	1.58E-08	7.55E-12	0.00E+00	1.96E-08	2.30E-09	7.26E-09	1.75E-12	0.00E+00	9.57E-09
221	420657.03	3734102.82	2.75E-08	1.16E-07	5.09E-11	0.00E+00	1.44E-07	3.77E-09	1.59E-08	7.59E-12	0.00E+00	1.97E-08	2.31E-09	7.30E-09	1.76E-12	0.00E+00	9.61E-09
222	420666.7	3734101.09	2.76E-08	1.17E-07	5.12E-11	0.00E+00	1.44E-07	3.79E-09	1.59E-08	7.62E-12	0.00E+00	1.97E-08	2.32E-09	7.33E-09	1.77E-12	0.00E+00	9.65E-09
223	420676.38	3734099.36	2.77E-08	1.17E-07	5.14E-11	0.00E+00	1.45E-07	3.80E-09	1.60E-08	7.65E-12	0.00E+00	1.98E-08	2.33E-09	7.36E-09	1.78E-12	0.00E+00	9.70E-09
224	420686.06	3734097.63	2.78E-08	1.18E-07	5.16E-11	0.00E+00	1.45E-07	3.82E-09	1.61E-08	7.68E-12	0.00E+00	1.99E-08	2.34E-09	7.39E-09	1.78E-12	0.00E+00	9.74E-09
225	420695.73	3734095.9	2.79E-08	1.18E-07	5.18E-11	0.00E+00	1.46E-07	3.83E-09	1.61E-08	7.71E-12	0.00E+00	2.00E-08	2.35E-09	7.42E-09	1.79E-12	0.00E+00	9.77E-09
226	420705.41	3734094.17	2.80E-08	1.18E-07	5.19E-11	0.00E+00	1.46E-07	3.84E-09	1.62E-08	7.74E-12	0.00E+00	2.00E-08	2.36E-09	7.44E-09	1.80E-12	0.00E+00	9.80E-09
227	420715.09	3734092.44	2.81E-08	1.19E-07	5.20E-11	0.00E+00	1.47E-07	3.85E-09	1.62E-08	7.75E-12	0.00E+00	2.01E-08	2.36E-09	7.45E-09	1.80E-12	0.00E+00	9.82E-09
228	420724.77	3734090.71	2.81E-08	1.19E-07	5.21E-11	0.00E+00	1.47E-07	3.85E-09	1.62E-08	7.76E-12	0.00E+00	2.01E-08	2.37E-09	7.46E-09	1.80E-12	0.00E+00	9.83E-09
229	420734.44	3734088.98	2.81E-08	1.19E-07	5.21E-11	0.00E+00	1.47E-07	3.85E-09	1.62E-08	7.76E-12	0.00E+00	2.01E-08	2.37E-09	7.46E-09	1.80E-12	0.00E+00	9.83E-09
230	420753.8	3734085.52	2.80E-08	1.18E-07	5.19E-11	0.00E+00	1.46E-07	3.84E-09	1.62E-08	7.73E-12	0.00E+00	2.00E-08	2.36E-09	7.44E-09	1.79E-12	0.00E+00	9.79E-09
231	420763.48	3734083.78	2.79E-08	1.18E-07	5.17E-11	0.00E+00	1.46E-07	3.83E-09	1.61E-08	7.70E-12	0.00E+00	2.00E-08	2.35E-09	7.41E-09	1.79E-12	0.00E+00	9.76E-09
232	420773.15	3734082.05	2.78E-08	1.17E-07	5.15E-11	0.00E+00	1.45E-07	3.81E-09	1.60E-08	7.67E-12	0.00E+00	1.99E-08	2.34E-09	7.37E-09	1.78E-12	0.00E+00	9.71E-09
233	420500.71	3734290.48	7.39E-08	3.12E-07	1.37E-10	0.00E+00	3.86E-07	1.01E-08	4.26E-08	2.04E-11	0.00E+00	5.28E-08	6.21E-09	1.96E-08	4.73E-12	0.00E+00	2.58E-08
234	420500.67	3734300.34	7.80E-08	3.29E-07	1.45E-10	0.00E+00	4.07E-07	1.07E-08	4.50E-08	2.15E-11	0.00E+00	5.57E-08	6.56E-09	2.07E-08	5.00E-12	0.00E+00	2.73E-08
235	420500.63	3734310.2	8.21E-08	3.46E-07	1.52E-10	0.00E+00	4.29E-07	1.12E-08	4.74E-08	2.26E-11	0.00E+00	5.87E-08	6.90E-09	2.18E-08	5.26E-12	0.00E+00	2.87E-08
236	420500.59	3734320.06	8.60E-08	3.63E-07	1.59E-10	0.00E+00	4.49E-07	1.18E-08	4.96E-08	2.37E-11	0.00E+00	6.15E-08	7.23E-09	2.28E-08	5.51E-12	0.00E+00	3.01E-08
237	420500.55	3734329.92	8.97E-08	3.79E-07	1.66E-10	0.00E+00	4.69E-07	1.23E-08	5.18E-08	2.48E-11	0.00E+00	6.41E-08	7.55E-09	2.38E-08	5.75E-12	0.00E+00	3.14E-08
238	420500.51	3734339.78	9.32E-08	3.94E-07	1.73E-10	0.00E+00	4.87E-07	1.28E-08	5.38E-08	2.57E-11	0.00E+00	6.66E-08	7.84E-09	2.47E-08	5.97E-12	0.00E+00	3.26E-08
239	420500.47	3734349.64	9.65E-08	4.07E-07	1.79E-10	0.00E+00	5.04E-07	1.32E-08	5.57E-08	2.66E-11	0.00E+00	6.89E-08	8.11E-09	2.56E-08	6.18E-12	0.00E+00	3.37E-08
240	420511.46	3734229.47	5.23E-08	2.21E-07	9.69E-11	0.00E+00	2.73E-07	7.17E-09	3.02E-08	1.44E-11	0.00E+00	3.74E-08	4.40E-09	1.39E-08	3.35E-12	0.00E+00	1.83E-08
241	420515.85	3734220.76	4.98E-08	2.10E-07	9.23E-11	0.00E+00	2.60E-07	6.83E-09	2.88E-08	1.37E-11	0.00E+00	3.56E-08	4.19E-09	1.32E-08	3.19E-12	0.00E+00	1.74E-08
242	420520.24	3734212.06	4.74E-08	2.00E-07	8.78E-11	0.00E+00	2.47E-07	6.49E-09	2.73E-08	1.31E-11	0.00E+00	3.39E-08	3.98E-09	1.26E-08	3.03E-12	0.00E+00	1.66E-08
243	420524.63	3734203.35	4.49E-08	1.90E-07	8.33E-11	0.00E+00	2.35E-07	6.16E-09	2.59E-08	1.24E-11	0.00E+00	3.21E-08	3.78E-09	1.19E-08	2.88E-12	0.00E+00	1.57E-08
244	420529.02	3734194.65	4.26E-08	1.80E-07	7.89E-11	0.00E+00	2.23E-07	5.84E-09	2.46E-08	1.18E-11	0.00E+00	3.04E-08	3.58E-09	1.13E-08	2.73E-12	0.00E+00	1.49E-08
245	420533.42	3734185.94	4.03E-08	1.70E-07	7.48E-11	0.00E+00	2.11E-07	5.53E-09	2.33E-08	1.11E-11	0.00E+00	2.88E-08	3.39E-09	1.07E-08	2.58E-12	0.00E+00	1.41E-08
246	420537.81	3734177.24	3.82E-08	1.61E-07	7.08E-11	0.00E+00	2.00E-07	5.24E-09	2.21E-08	1.05E-11	0.00E+00	2.73E-08	3.21E-09	1.01E-08	2.45E-12	0.00E+00	1.34E-08
247	420555.38	3734142.42	3.09E-08	1.30E-07	5.72E-11	0.00E+00	1.61E-07	4.23E-09	1.78E-08	8.52E-12	0.00E+00	2.21E-08	2.60E-09	8.19E-09	1.98E-12	0.00E+00	1.08E-08
248	420559.77	3734133.72	2.93E-08	1.24E-07	5.44E-11	0.00E+00	1.53E-07	4.02E-09	1.69E-08	8.10E-12	0.00E+00	2.10E-08	2.47E-09	7.79E-09	1.88E-12	0.00E+00	1.03E-08
249	420564.16	3734125.01	2.79E-08	1.18E-07	5.17E-11	0.00E+00	1.46E-07	3.83E-09	1.61E-08	7.70E-12	0.00E+00	1.99E-08	2.35E-09	7.41E-09	1.79E-12	0.00E+00	9.76E-09
250	420568.55	3734116.31	2.66E-08	1.12E-07	4.92E-11	0.00E+00	1.39E-07	3.64E-09	1.53E-08	7.33E-12	0.00E+00	1.90E-08	2.24E-09	7.05E-09	1.70E-12	0.00E+00	9.29E-09
251	420572.94	3734107.61	2.53E-08	1.07E-07	4.70E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.99E-12	0.00E+00	1.81E-08	2.13E-09	6.73E-09	1.62E-12	0.00E+00	8.86E-09
252	420586.93	3734097.19	2.42E-08	1.02E-07	4.49E-11	0.00E+00	1.26E-07	3.32E-09	1.40E-08	6.68E-12	0.00E+00	1.73E-08	2.04E-09	6.42E-09	1.55E-12	0.00E+00	8.46E-09
253	420596.53	3734095.47	2.42E-08	1.02E-07	4.49E-11	0.00E+00	1.27E-07	3.32E-09	1.40E-08	6.69E-12	0.00E+00	1.73E-08	2.04E-09	6.43E-09	1.55E-12	0.00E+00	8.47E-09
254	420606.13	3734093.75	2.43E-08	1.03E-07	4.50E-11	0.00E+00	1.27E-07	3.33E-09	1.40E-08	6.70E-12	0.00E+00	1.74E-08	2.04E-09	6.44E-09	1.56E-12	0.00E+00	8.49E-09
255	420615.73	3734092.04	2.43E-08	1.03E-07	4.51E-11	0.00E+00	1.27E-07	3.34E-09	1.41E-08	6.72E-12	0.00E+00	1.74E-08	2.05E-09	6.46E-09	1.56E-12	0.00E+00	8.51E-09
256	420634.92	3734088.6	2.45E-08	1.03E-07	4.54E-11	0.00E+00	1.28E-07	3.36E-09	1.42E-08	6.76E-12	0.00E+00	1.75E-08	2.06E-09	6.50E-09	1.57E-12	0.00E+00	8.57E-09
257	420644.52	3734086.89	2.46E-08	1.04E-07	4.56E-11	0.00E+00	1.29E-07	3.37E-09	1.42E-08	6.79E-12	0.00E+00	1.76E-08	2.07E-09	6.53E-09	1.58E-12	0.00E+00	8.61E-09
258	420654.11	3734085.17	2.47E-08	1.04E-07	4.58E-11	0.00E+00	1.29E-07	3.39E-09	1.43E-08	6.82E-12	0.00E+00	1.77E-08	2.08E-09	6.56E-09	1.58E-12	0.00E+00	8.65E-09
259	420663.71	3734083.45	2.48E-08	1.05E-07	4.60E-11	0.00E+00	1.30E-07	3.41E-09	1.43E-08	6.86E-12	0.00E+00	1.78E-08	2.09E-09	6.59E-09	1.59E-12	0.00E+00	8.68E-09
260	420673.31	3734081.74	2.50E-08	1.05E-07	4.62E-11	0.00E+00	1.30E-07	3.42E-09	1.44E-08	6.89E-12	0.00E+00	1.78E-08	2.10E-09	6.62E-09	1.60E-12	0.00E+00	8.72E-09
261	420682.91	3734080.02	2.51E-08	1.06E-07	4.64E-11	0.00E+00	1.31E-07	3.43E-09	1.45E-08	6.91E-12	0.00E+00	1.79E-08	2.11E-09	6.65E-09	1.60E-12	0.00E+00	8.76E-09
262	420692.5	3734078.3	2.51E-08	1.06E-07	4.66E-11	0.00E+00	1.31E-07	3.45E-09	1.45E-08	6.94E-12	0.00E+00	1.80E-08	2.12E-09	6.67E-09	1.61E-12	0.00E+00	8.79E-09
263	420702.1	3734076.59	2.52E-08	1.07E-07	4.67E-11	0.00E+00	1.32E-07	3.46E-09	1.46E-08	6.96E-12	0.00E+00	1.80E-08	2.12E-09	6.69E-09	1.62E-12	0.00E+00	8.82E-09
264	420711.7	3734074.87	2.53E-08	1.07E-07	4.68E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.98E-12	0.00E+00	1.81E-08	2.13E-09	6.71E-09	1.62E-12	0.00E+00	8.84E-09
265	420721.3	3734073.15	2.53E-08	1.07E-07	4.69E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.99E-12	0.00E+00	1.81E-08	2.13E-09	6.72E-09	1.62E-12	0.00E+00	8.85E-09
266	420730.89	3734071.44	2.53E-08	1.07E-07	4.69E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.99E-12	0.00E+00	1.81E-08	2.13E-09	6.72E-09	1.62E-12	0.00E+00	8.86E-09
267	420759.69	3734066.29	2.52E-08	1.06E-07	4.67E-11	0.00E+00	1.32E-07	3.46E-09	1.46E-08	6.96E-12	0.00E+00	1.80E-08	2.12E-09	6.69E-09	1.61E-12	0.00E+00	8.81E-09
268	420769.28	3734064.57	2.51E-08	1.06E-07	4.65E-11	0.00E+00	1.31E-07	3.44E-09	1.45E-08	6.93E-12	0.00E+00	1.79E-08	2.11E-09	6.66E-09	1.61E-12	0.00E+00	8.78E-09
269	420778.88	3734062.85	2.50E-08	1.06E-07	4.63E-11	0.00E+00	1.31E-07	3.43E-09	1.44E-08	6.90E-12	0.00E+00	1.79E-08	2.10E-09	6.63E-09	1.60E-12	0.00E+00	8.74E-09
270	420480.71	3734290.4	6.62E-08	2.79E-07	1.23E-10	0.00E+00	3.46E-07	9.07E-09	3.82E-08	1.83E-11	0.00E+00	4.73E-08	5.57E-09	1.76E-08	4.24E-12	0.00E+00	2.31E-08
271	420480.67	3734300.26	6.92E-08	2.92E-07	1.28E-10	0.00E+00	3.61E-07	9.49E-09	4.00E-08	1.91E-11	0.00E+00	4.95E-08	5.82E-09	1.84E-08	4.43E-12	0.00E+00	2.42E-08
272	420480.63	3734310.12	7.21E-08	3.04E-07	1.34E-10	0.00E+00	3.77E-07	9.88E-09	4.16E-08	1.99E-11	0.00E+00	5.15E-08	6.07E-09	1.91E-08	4.62E-12	0.00E+00	2.52E-08

273	420480.59	3734319.98	7.48E-08	3.16E-07	1.39E-10	0.00E+00	3.91E-07	1.03E-08	4.32E-08	2.07E-11	0.00E+00	5.35E-08	6.30E-09	1.99E-08	4.79E-12	0.00E+00	2.62E-08
274	420480.55	3734329.84	7.74E-08	3.27E-07	1.43E-10	0.00E+00	4.04E-07	1.06E-08	4.47E-08	2.13E-11	0.00E+00	5.53E-08	6.51E-09	2.05E-08	4.96E-12	0.00E+00	2.70E-08
275	420480.51	3734339.7	7.96E-08	3.36E-07	1.48E-10	0.00E+00	4.16E-07	1.09E-08	4.60E-08	2.20E-11	0.00E+00	5.69E-08	6.70E-09	2.11E-08	5.10E-12	0.00E+00	2.78E-08
276	420480.47	3734349.56	8.16E-08	3.45E-07	1.51E-10	0.00E+00	4.26E-07	1.12E-08	4.71E-08	2.25E-11	0.00E+00	5.83E-08	6.87E-09	2.17E-08	5.23E-12	0.00E+00	2.85E-08
277	420482.52	3734247.1	5.32E-08	2.25E-07	9.86E-11	0.00E+00	2.78E-07	7.30E-09	3.07E-08	1.47E-11	0.00E+00	3.80E-08	4.48E-09	1.41E-08	3.41E-12	0.00E+00	1.86E-08
278	420486.88	3734238.45	5.15E-08	2.17E-07	9.53E-11	0.00E+00	2.69E-07	7.05E-09	2.97E-08	1.42E-11	0.00E+00	3.68E-08	4.33E-09	1.37E-08	3.30E-12	0.00E+00	1.80E-08
279	420491.24	3734229.81	4.96E-08	2.09E-07	9.18E-11	0.00E+00	2.59E-07	6.79E-09	2.86E-08	1.37E-11	0.00E+00	3.54E-08	4.17E-09	1.31E-08	3.17E-12	0.00E+00	1.73E-08
280	420513.05	3734186.59	3.93E-08	1.66E-07	7.29E-11	0.00E+00	2.06E-07	5.39E-09	2.27E-08	1.09E-11	0.00E+00	2.81E-08	3.31E-09	1.04E-08	2.52E-12	0.00E+00	1.38E-08
281	420517.41	3734177.95	3.74E-08	1.58E-07	6.93E-11	0.00E+00	1.95E-07	5.13E-09	2.16E-08	1.03E-11	0.00E+00	2.67E-08	3.15E-09	9.92E-09	2.40E-12	0.00E+00	1.31E-08
282	420521.77	3734169.3	3.55E-08	1.50E-07	6.58E-11	0.00E+00	1.86E-07	4.87E-09	2.05E-08	9.80E-12	0.00E+00	2.54E-08	2.99E-09	9.42E-09	2.27E-12	0.00E+00	1.24E-08
283	420534.86	3734143.37	3.05E-08	1.29E-07	5.64E-11	0.00E+00	1.59E-07	4.17E-09	1.76E-08	8.40E-12	0.00E+00	2.18E-08	2.56E-09	8.08E-09	1.95E-12	0.00E+00	1.06E-08
284	420539.22	3734134.73	2.90E-08	1.22E-07	5.37E-11	0.00E+00	1.51E-07	3.97E-09	1.67E-08	7.99E-12	0.00E+00	2.07E-08	2.44E-09	7.69E-09	1.86E-12	0.00E+00	1.01E-08
285	420543.58	3734126.08	2.76E-08	1.16E-07	5.11E-11	0.00E+00	1.44E-07	3.78E-09	1.59E-08	7.61E-12	0.00E+00	1.97E-08	2.32E-09	7.31E-09	1.77E-12	0.00E+00	9.63E-09
286	420547.94	3734117.44	2.63E-08	1.11E-07	4.86E-11	0.00E+00	1.37E-07	3.60E-09	1.52E-08	7.24E-12	0.00E+00	1.88E-08	2.21E-09	6.97E-09	1.68E-12	0.00E+00	9.18E-09
287	420552.3	3734108.79	2.50E-08	1.06E-07	4.64E-11	0.00E+00	1.31E-07	3.43E-09	1.45E-08	6.91E-12	0.00E+00	1.79E-08	2.11E-09	6.64E-09	1.60E-12	0.00E+00	8.75E-09
288	420556.67	3734100.15	2.39E-08	1.01E-07	4.43E-11	0.00E+00	1.25E-07	3.28E-09	1.38E-08	6.59E-12	0.00E+00	1.71E-08	2.01E-09	6.34E-09	1.53E-12	0.00E+00	8.35E-09
289	420561.03	3734091.51	2.28E-08	9.64E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.30E-12	0.00E+00	1.63E-08	1.92E-09	6.06E-09	1.46E-12	0.00E+00	7.98E-09
290	420574.92	3734081.16	2.18E-08	9.22E-08	4.05E-11	0.00E+00	1.14E-07	2.99E-09	1.26E-08	6.03E-12	0.00E+00	1.56E-08	1.84E-09	5.80E-09	1.40E-12	0.00E+00	7.64E-09
291	420584.45	3734079.45	2.19E-08	9.23E-08	4.05E-11	0.00E+00	1.14E-07	3.00E-09	1.26E-08	6.03E-12	0.00E+00	1.56E-08	1.84E-09	5.80E-09	1.40E-12	0.00E+00	7.64E-09
292	420593.98	3734077.75	2.19E-08	9.25E-08	4.06E-11	0.00E+00	1.14E-07	3.00E-09	1.26E-08	6.04E-12	0.00E+00	1.57E-08	1.84E-09	5.81E-09	1.40E-12	0.00E+00	7.65E-09
293	420603.51	3734076.04	2.19E-08	9.27E-08	4.07E-11	0.00E+00	1.15E-07	3.01E-09	1.27E-08	6.06E-12	0.00E+00	1.57E-08	1.85E-09	5.82E-09	1.41E-12	0.00E+00	7.67E-09
294	420613.04	3734074.34	2.20E-08	9.29E-08	4.08E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.07E-12	0.00E+00	1.57E-08	1.85E-09	5.84E-09	1.41E-12	0.00E+00	7.69E-09
295	420632.1	3734070.93	2.22E-08	9.36E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.12E-12	0.00E+00	1.59E-08	1.87E-09	5.88E-09	1.42E-12	0.00E+00	7.75E-09
296	420641.63	3734069.23	2.23E-08	9.40E-08	4.13E-11	0.00E+00	1.16E-07	3.05E-09	1.29E-08	6.14E-12	0.00E+00	1.59E-08	1.87E-09	5.91E-09	1.43E-12	0.00E+00	7.78E-09
297	420651.16	3734067.52	2.24E-08	9.44E-08	4.14E-11	0.00E+00	1.17E-07	3.07E-09	1.29E-08	6.17E-12	0.00E+00	1.60E-08	1.88E-09	5.93E-09	1.43E-12	0.00E+00	7.82E-09
298	420660.7	3734065.82	2.25E-08	9.48E-08	4.16E-11	0.00E+00	1.17E-07	3.08E-09	1.30E-08	6.20E-12	0.00E+00	1.61E-08	1.89E-09	5.96E-09	1.44E-12	0.00E+00	7.85E-09
299	420670.23	3734064.11	2.26E-08	9.52E-08	4.18E-11	0.00E+00	1.18E-07	3.09E-09	1.30E-08	6.22E-12	0.00E+00	1.61E-08	1.90E-09	5.99E-09	1.45E-12	0.00E+00	7.89E-09
300	420679.76	3734062.41	2.26E-08	9.56E-08	4.20E-11	0.00E+00	1.18E-07	3.10E-09	1.31E-08	6.25E-12	0.00E+00	1.62E-08	1.91E-09	6.01E-09	1.45E-12	0.00E+00	7.92E-09
301	420689.29	3734060.7	2.27E-08	9.60E-08	4.21E-11	0.00E+00	1.19E-07	3.12E-09	1.31E-08	6.27E-12	0.00E+00	1.62E-08	1.91E-09	6.03E-09	1.46E-12	0.00E+00	7.94E-09
302	420698.82	3734059	2.28E-08	9.63E-08	4.22E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.29E-12	0.00E+00	1.63E-08	1.92E-09	6.05E-09	1.46E-12	0.00E+00	7.97E-09
303	420708.35	3734057.29	2.29E-08	9.65E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.31E-12	0.00E+00	1.63E-08	1.92E-09	6.07E-09	1.46E-12	0.00E+00	7.99E-09
304	420717.88	3734055.59	2.29E-08	9.67E-08	4.24E-11	0.00E+00	1.20E-07	3.14E-09	1.32E-08	6.32E-12	0.00E+00	1.64E-08	1.93E-09	6.08E-09	1.47E-12	0.00E+00	8.01E-09
305	420727.41	3734053.88	2.29E-08	9.68E-08	4.25E-11	0.00E+00	1.20E-07	3.14E-09	1.32E-08	6.32E-12	0.00E+00	1.64E-08	1.93E-09	6.08E-09	1.47E-12	0.00E+00	8.01E-09
306	420736.94	3734052.18	2.29E-08	9.67E-08	4.25E-11	0.00E+00	1.20E-07	3.14E-09	1.32E-08	6.32E-12	0.00E+00	1.64E-08	1.93E-09	6.08E-09	1.47E-12	0.00E+00	8.01E-09
307	420756	3734048.77	2.28E-08	9.65E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.30E-12	0.00E+00	1.63E-08	1.92E-09	6.06E-09	1.46E-12	0.00E+00	7.99E-09
308	420765.53	3734047.06	2.28E-08	9.62E-08	4.22E-11	0.00E+00	1.19E-07	3.12E-09	1.31E-08	6.28E-12	0.00E+00	1.63E-08	1.92E-09	6.04E-09	1.46E-12	0.00E+00	7.96E-09
309	420775.06	3734045.36	2.27E-08	9.58E-08	4.20E-11	0.00E+00	1.19E-07	3.11E-09	1.31E-08	6.26E-12	0.00E+00	1.62E-08	1.91E-09	6.02E-09	1.45E-12	0.00E+00	7.93E-09
310	420784.59	3734043.65	2.26E-08	9.53E-08	4.18E-11	0.00E+00	1.18E-07	3.10E-09	1.30E-08	6.23E-12	0.00E+00	1.61E-08	1.90E-09	5.99E-09	1.45E-12	0.00E+00	7.89E-09
311	420460.71	3734290.32	5.91E-08	2.49E-07	1.09E-10	0.00E+00	3.09E-07	8.09E-09	3.41E-08	1.63E-11	0.00E+00	4.22E-08	4.97E-09	1.57E-08	3.78E-12	0.00E+00	2.06E-08
312	420460.67	3734300.18	6.12E-08	2.59E-07	1.13E-10	0.00E+00	3.20E-07	8.39E-09	3.53E-08	1.69E-11	0.00E+00	4.38E-08	5.15E-09	1.62E-08	3.92E-12	0.00E+00	2.14E-08
313	420460.63	3734310.04	6.33E-08	2.67E-07	1.17E-10	0.00E+00	3.30E-07	8.67E-09	3.65E-08	1.75E-11	0.00E+00	4.52E-08	5.32E-09	1.68E-08	4.05E-12	0.00E+00	2.21E-08
314	420460.59	3734319.9	6.51E-08	2.75E-07	1.21E-10	0.00E+00	3.40E-07	8.93E-09	3.76E-08	1.80E-11	0.00E+00	4.65E-08	5.48E-09	1.73E-08	4.17E-12	0.00E+00	2.28E-08
315	420460.55	3734329.76	6.68E-08	2.82E-07	1.24E-10	0.00E+00	3.49E-07	9.15E-09	3.86E-08	1.84E-11	0.00E+00	4.77E-08	5.62E-09	1.77E-08	4.28E-12	0.00E+00	2.33E-08
316	420460.51	3734339.62	6.82E-08	2.88E-07	1.26E-10	0.00E+00	3.56E-07	9.35E-09	3.94E-08	1.88E-11	0.00E+00	4.88E-08	5.74E-09	1.81E-08	4.37E-12	0.00E+00	2.38E-08
317	420460.47	3734349.48	6.94E-08	2.93E-07	1.29E-10	0.00E+00	3.63E-07	9.52E-09	4.01E-08	1.92E-11	0.00E+00	4.96E-08	5.84E-09	1.84E-08	4.45E-12	0.00E+00	2.43E-08
318	420462.39	3734247.27	4.92E-08	2.08E-07	9.12E-11	0.00E+00	2.57E-07	6.75E-09	2.84E-08	1.36E-11	0.00E+00	3.52E-08	4.14E-09	1.31E-08	3.15E-12	0.00E+00	1.72E-08
319	420466.73	3734238.68	4.80E-08	2.03E-07	8.89E-11	0.00E+00	2.51E-07	6.57E-09	2.77E-08	1.32E-11	0.00E+00	3.43E-08	4.03E-09	1.27E-08	3.07E-12	0.00E+00	1.68E-08
320	420471.06	3734230.09	4.65E-08	1.97E-07	8.62E-11	0.00E+00	2.43E-07	6.38E-09	2.69E-08	1.28E-11	0.00E+00	3.33E-08	3.92E-09	1.23E-08	2.98E-12	0.00E+00	1.63E-08
321	420475.4	3734221.49	4.50E-08	1.90E-07	8.34E-11	0.00E+00	2.35E-07	6.17E-09	2.60E-08	1.24E-11	0.00E+00	3.22E-08	3.78E-09	1.19E-08	2.88E-12	0.00E+00	1.57E-08
322	420479.73	3734212.9	4.33E-08	1.83E-07	8.03E-11	0.00E+00	2.26E-07	5.94E-09	2.50E-08	1.20E-11	0.00E+00	3.10E-08	3.65E-09	1.15E-08	2.78E-12	0.00E+00	1.51E-08
323	420484.07	3734204.31	4.16E-08	1.76E-07	7.71E-11	0.00E+00	2.17E-07	5.70E-09	2.40E-08	1.15E-11	0.00E+00	2.97E-08	3.50E-09	1.10E-08	2.67E-12	0.00E+00	1.45E-08
324	420488.41	3734195.71	3.99E-08	1.68E-07	7.38E-11	0.00E+00	2.08E-07	5.46E-09	2.30E-08	1.10E-11	0.00E+00	2.85E-08	3.35E-09	1.06E-08	2.55E-12	0.00E+00	1.39E-08
325	420492.74	3734187.12	3.81E-08	1.61E-07	7.06E-11	0.00E+00	1.99E-07	5.22E-09	2.20E-08	1.05E-11	0.00E+00	2.72E-08	3.21E-09	1.01E-08	2.44E-12	0.00E+00	1.33E-08
326	420514.42	3734144.16	3.00E-08	1.27E-07	5.56E-11	0.00E+00	1.57E-07	4.11E-09	1.73E-08	8.28E-12	0.00E+00	2.14E-08	2.52E-09	7.96E-09	1.92E-12	0.00E+00	1.05E-08
327	420518.76	3734135.57	2.86E-08	1.21E-07	5.29E-11	0.00E+00	1.49E-07	3.92E-09	1.65E-08	7.88E-12	0.00E+00	2.04E-08	2.40E-09	7.58E-09	1.83E-12	0.00E+00	9.99E-09
328	420523.09	3734126.97	2.72E-08	1.15E-07	5.04E-11	0.00E+00	1.42E-07	3.73E-09	1.57E-08	7.51E-12	0.00E+00	1.95E-08	2.29E-09	7.22E-09	1.74E-12	0.00E+00	9.51E-09
329	420527.43	3734118.38	2.59E-08	1.10E-07	4.81E-11	0.00E+00	1.36E-07	3.56E-09	1.50E-08	7.16E-12	0.00E+00	1.85E-08	2.18E-09	6.88E-09	1.66E-12	0.00E+00	9.07E-09
330	420531.76	3734109.79	2.47E-08	1.04E-07	4.58E-11	0.00E+00	1.29E-07	3.39E-09	1.43E-08	6.83E-12	0.00E+00	1.77E-08	2.08E-09	6.57E-09	1.59E-12	0.00E+00	8.65E-09
331	420536.1	3734101.19	2.36E-08	9.98E-08	4.38E-11	0.00E+00	1.23E-07	3.24E-09	1.36E-08	6.52E-12	0.00E+00	1.69E-08	1.99E-09	6.27E-09	1.51E-12	0.00E+00	8.26E-09
332	420540.43	3734092.6	2.26E-08	9.53E-08	4.18E-11	0.00E+00	1.18E-07	3.09E-09	1.30E-08	6.23E-12	0.00E+00	1.61E-08	1.90E-09	5.99E-09	1.45E-12	0.00E+00	7.89E-09
333	420544.77	3734084.01	2.16E-08	9.12E-08	4.00E-11	0.00E+00	1.13E-07	2.96E-09	1.25E-08	5.96E-12	0.00E+00	1.54E-08	1.82E-09	5.73E-09	1.38E-12	0.00E+00	7.55E-09
334	420549.11	3734075.42	2.07E-08	8.73E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.70E-12	0.00E+00	1.48E-08	1.74E-09	5.49E-09	1.32E-12	0.00E+00	7.23E-09
335	420562.92	3734065.13	1.98E-08	8.36E-08	3.67E-11	0.00E+00	1.03E-07	2.71E-09	1.14E-08	5.47E-12	0.00E+00	1.42E-08	1.67E-09	5.26E-09	1.27E-12	0.00E+00	6.92E-09
336	420572.39	3734063.43	1.98E-08	8.37E-08	3.67E-11	0.00E+00	1.04E-07	2.72E-09	1.14E-08	5.47E-12	0.00E+00	1.42E-08	1.67E-09	5.26E-09	1.27E-12	0.00E+00	6.93E-09
337	420581.86	3734061.74	1.98E-08	8.38E-08	3.68E-11	0.00E+00	1.04E-07	2.72E-09	1.15E-08	5.48E-12	0.00E+00	1.42E-08	1.67E-09	5.27E-09	1.27E-12	0.00E+00	6.94E-09
338	420591.34	3734060.05	1.99E-08	8.40E-08	3.68E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.49E-12	0.00E+00	1.42E-08	1.67E-09	5.28E-09	1.27E-12	0.00E+00	6.95E-09
339	420600.81	3734058.35	1.99E-08	8.42E-08	3.69E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.50E-12	0.00E+00	1.42E-08	1.68E-09	5.29E-09	1.28E-12	0.00E+00	6.97E-09
340	420638.71	3734051.57	2.02E-08	8.54E-08	3.75E-11	0.00E+00	1.06E-07	2.77E-09	1.17E-08	5.58E-12	0.00E+00	1.45E-08	1.70E-09	5.37E-09	1.30E-12	0.00E+00	7.07E-09
341	420648.18	3734049.88	2.03E-08	8.58E-08	3.76E-11	0.00E+00	1.06E-07	2.78E-09	1.17E-08	5.61E-12	0.00E+00	1.45E-08	1.71E-09	5.39E-09	1.30E-12	0.00E+00	7.10E-09
342	420657.66	3734048.18	2.04E-08	8.61E-08	3.78E-11	0.00E+00	1.07E-07	2.80E-09	1.18E-08	5.63E-12	0.00E+00	1.46E-08	1.72E-09	5.41E-09	1.31E-12	0.00E+00	7.13E-09
343	420667.13	3734046.49	2.05E-08	8.65E-08	3.80E-11	0.00E+00	1.07E-07	2.81E-09	1.18E-08	5.65E-12	0.00E+00	1.46E-08	1.72E-09	5.44E-09	1.31E-12	0.00E+00	7.16E-09
344	420676.61	3734044.79	2.06E-08	8.68E-08	3.81E-11	0.00E+00	1.07E-07	2.82E-09	1.19E-08	5.67E-12	0.00E+00	1.47E-08	1.73E-09	5.46E-09	1.32E-12	0.00E+00	7.19E-09
345	420686.08	3734043.1	2.06E-08	8.72E-08	3.82E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.70E-12	0.00E+00	1.48E-08	1.74E-09	5.48E-09	1.32E-12	0.00E+00	7.22E-09
346	420695.55	3734041.4	2.07E-08	8.74E-08	3.84E-11	0.00E+00	1.08E-07	2.84E-09	1.20E-08	5.71E-12	0.00E+00	1.48E-08	1.74E-09	5.49E-09	1.33E-12	0.00E+00	7.24E-09
347	420705.03	3734039.71	2.08E-08	8.76E-08	3.85E-11	0.00E+00	1.08E-07	2.85E-09	1.20E-08	5.73E-12	0.00E+00	1.48E-08	1.75E-09	5.51E-09	1.33E-12	0.00E+00	7.26E-09
348	420714.5	3734038.02	2.08E-08	8.78E-08	3.85E-11	0.00E+00	1.09E-07	2.85E-09	1.20E-08	5.74E-12	0.00E+00	1.49E-08	1.75E-09	5.52E-09	1.33E-12	0.00E+00	7.27E-09
349	420723.98	3734036.32	2.08E-08	8.79E-08	3.86E-11	0.00E+00	1.09E-07	2.85E-09	1.20E-08	5.75E-12	0.00E+00	1.49E-08	1.75E-09	5.52E-09	1.33E-12	0.00E+00	7.28E-09
350	420733.45	3734034.63	2.08E-08	8.79E-08	3.86E-11	0.00E+00	1.09E-07	2.85E-09	1.20E-08	5.75E-12	0.00E+00	1.49E-08	1.75E-09	5.53E-09	1.33E-12	0.00E+00	7.28E-09
351	420752.4	3734031.24	2.08E-08	8.78E-08	3.85E-11	0.00E+00	1.09E-07	2.85E-09	1.20E-08	5.74E-12	0.00E+00	1.49E-08	1.75E-09	5.52E-09	1.33E-12	0.00E+00	7.27E-09
352	420761.87	3734029.54	2.07E-08	8.76E-08	3.84E-11	0.00E+00	1.08E-07	2.84E-09	1.20E-08	5.72E-12	0.00E+00	1.48E-08	1.74E-09	5.50E-09	1.33E-12	0.00E+00	7.25E-09
353	420771.35	3734027.85	2.07E-08	8.73E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.71E-12	0.00E+00	1.48E-08	1.74E-09	5.49E-09	1.32E-12	0.00E+00	7.23E-09
354	420780.82	3734026.15	2.06E-08	8.69E-08	3.82E-11	0.00E+00	1.08E-07	2.82E-09	1.19E-08	5.68E-12	0.00E+00	1.47E-08	1.73E-09	5.46E-09	1.32E-12	0.00E+00	7.20E-09
355	420790.3	3734024.46	2.05E-08	8.65E-08	3.80E-11	0.00E+00	1.07E-07	2.81E-09	1.18E-08	5.66E-12	0.00E+00	1.46E-08	1.72E-09	5.44E-09	1.31E-12	0.00E+00	7.16E-09
356	420442.28	3734247.41	4.52E-08	1.91E-07	8.38E-11	0.00E+00	2.36E-07	6.20E-09	2.61E-08	1.25E-11	0.00E+00	3.23E-08	3.81E-09	1.20E-08	2.90E-12	0.00E+00	1.58E-08
357	420446.59	3734238.86	4.44E-08	1.87E-07	8.22E-11	0.00E+00	2.32E-07	6.09E-09	2.56E-08	1.22E-11	0.00E+00	3.17E-08	3.73E-09	1.18E-08	2.84E-12	0.00E+00	1.55E-08
358	420450.91	3734230.31	4.34E-08	1.83E-07	8.04E-11	0.00E+00	2.27E-07	5.95E-09	2.50E-08	1.20E-11	0.00E+00	3.10E-08	3.65E-09	1.15E-08	2.78E-12	0.00E+00	1.52E-08
359	420455.22	3734221.76	4.22E-08	1.78E-07	7.82E-11	0.00E+00	2.21E-07	5.79E-09	2.44E-08	1.17E-11	0.00E+00	3.02E-08	3.55E-09	1.12E-08	2.70E-12	0.00E+00	1.48E-08
360	420459.53	3734213.21	4.09E-08	1.73E-07	7.59E-11	0.00E+00	2.14E-07	5.61E-09	2.36E-08	1.13E-11	0.00E+00	2.93E-08	3.44E-09	1.09E-08	2.62E-12	0.00E+00	1.43E-08
361	420463.85	3734204.66	3.96E-08	1.67E-07	7.33E-11	0.00E+00	2.07E-07	5.43E-09	2.29E-08	1.09E-11	0.00E+00	2.83E-08	3.33E-09	1.05E-08	2.54E-12	0.00E+00	1.38E-08
362	420468.16	3734196.12	3.82E-08	1.61E-07	7.07E-11	0.00E+00	1.99E-07	5.23E-09	2.20E-08	1.05E-11	0.00E+00	2.73E-08	3.21E-09	1.01E-08	2.44E-12	0.00E+00	1.33E-08
363	420472.48	3734187.57	3.67E-08	1.55E-07	6.80E-11	0.00E+00	1.92E-07	5.03E-09	2.12E-08	1.01E-11	0.00E+00	2.62E-08	3.09E-09	9.73E-09	2.35E-12	0.00E+00	1.28E-08
364	420476.79	3734179.02	3.52E-08	1.49E-07	6.52E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.71E-12	0.00E+00	2.52E-08	2.96E-09	9.34E-09	2.25E-12	0.00E+00	1.23E-08

365	420481.1	3734170.47	3.37E-08	1.42E-07	6.25E-11	0.00E+00	1.76E-07	4.62E-09	1.95E-08	9.30E-12	0.00E+00	2.41E-08	2.84E-09	8.95E-09	2.16E-12	0.00E+00	1.18E-08
366	420511.3	3734110.63	2.45E-08	1.03E-07	4.53E-11	0.00E+00	1.28E-07	3.35E-09	1.41E-08	6.75E-12	0.00E+00	1.75E-08	2.06E-09	6.49E-09	1.57E-12	0.00E+00	8.55E-09
367	420515.61	3734102.08	2.34E-08	9.87E-08	4.33E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.45E-12	0.00E+00	1.67E-08	1.97E-09	6.20E-09	1.50E-12	0.00E+00	8.17E-09
368	420519.93	3734093.53	2.23E-08	9.43E-08	4.14E-11	0.00E+00	1.17E-07	3.06E-09	1.29E-08	6.17E-12	0.00E+00	1.60E-08	1.88E-09	5.93E-09	1.43E-12	0.00E+00	7.81E-09
369	420524.24	3734084.98	2.14E-08	9.03E-08	3.96E-11	0.00E+00	1.12E-07	2.93E-09	1.23E-08	5.90E-12	0.00E+00	1.53E-08	1.80E-09	5.67E-09	1.37E-12	0.00E+00	7.47E-09
370	420528.55	3734076.43	2.05E-08	8.64E-08	3.79E-11	0.00E+00	1.07E-07	2.81E-09	1.18E-08	5.65E-12	0.00E+00	1.46E-08	1.72E-09	5.43E-09	1.31E-12	0.00E+00	7.15E-09
371	420532.87	3734067.88	1.96E-08	8.28E-08	3.63E-11	0.00E+00	1.02E-07	2.69E-09	1.13E-08	5.41E-12	0.00E+00	1.40E-08	1.65E-09	5.20E-09	1.26E-12	0.00E+00	6.86E-09
372	420537.18	3734059.33	1.88E-08	7.95E-08	3.49E-11	0.00E+00	9.83E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.34E-08	1.58E-09	4.99E-09	1.21E-12	0.00E+00	6.58E-09
373	420579.2	3734044.04	1.81E-08	7.64E-08	3.35E-11	0.00E+00	9.46E-08	2.48E-09	1.04E-08	4.99E-12	0.00E+00	1.29E-08	1.52E-09	4.80E-09	1.16E-12	0.00E+00	6.33E-09
374	420588.62	3734042.35	1.81E-08	7.66E-08	3.36E-11	0.00E+00	9.47E-08	2.49E-09	1.05E-08	5.00E-12	0.00E+00	1.30E-08	1.53E-09	4.81E-09	1.16E-12	0.00E+00	6.34E-09
375	420598.05	3734040.67	1.82E-08	7.68E-08	3.37E-11	0.00E+00	9.50E-08	2.49E-09	1.05E-08	5.02E-12	0.00E+00	1.30E-08	1.53E-09	4.83E-09	1.16E-12	0.00E+00	6.36E-09
376	420607.47	3734038.98	1.82E-08	7.70E-08	3.38E-11	0.00E+00	9.53E-08	2.50E-09	1.05E-08	5.03E-12	0.00E+00	1.30E-08	1.53E-09	4.84E-09	1.17E-12	0.00E+00	6.38E-09
377	420635.75	3734033.92	1.84E-08	7.79E-08	3.42E-11	0.00E+00	9.64E-08	2.53E-09	1.07E-08	5.09E-12	0.00E+00	1.32E-08	1.55E-09	4.90E-09	1.18E-12	0.00E+00	6.45E-09
378	420645.18	3734032.24	1.85E-08	7.82E-08	3.43E-11	0.00E+00	9.68E-08	2.54E-09	1.07E-08	5.11E-12	0.00E+00	1.32E-08	1.56E-09	4.92E-09	1.19E-12	0.00E+00	6.48E-09
379	420654.6	3734030.55	1.86E-08	7.86E-08	3.45E-11	0.00E+00	9.72E-08	2.55E-09	1.07E-08	5.13E-12	0.00E+00	1.33E-08	1.57E-09	4.94E-09	1.19E-12	0.00E+00	6.50E-09
380	420664.03	3734028.87	1.87E-08	7.89E-08	3.46E-11	0.00E+00	9.76E-08	2.56E-09	1.08E-08	5.16E-12	0.00E+00	1.34E-08	1.57E-09	4.96E-09	1.20E-12	0.00E+00	6.53E-09
381	420673.46	3734027.18	1.88E-08	7.92E-08	3.47E-11	0.00E+00	9.80E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
382	420682.88	3734025.5	1.88E-08	7.95E-08	3.49E-11	0.00E+00	9.83E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.35E-08	1.58E-09	4.99E-09	1.21E-12	0.00E+00	6.58E-09
383	420692.31	3734023.81	1.89E-08	7.97E-08	3.50E-11	0.00E+00	9.86E-08	2.59E-09	1.09E-08	5.21E-12	0.00E+00	1.35E-08	1.59E-09	5.01E-09	1.21E-12	0.00E+00	6.60E-09
384	420701.73	3734022.12	1.89E-08	7.99E-08	3.51E-11	0.00E+00	9.89E-08	2.59E-09	1.09E-08	5.22E-12	0.00E+00	1.35E-08	1.59E-09	5.02E-09	1.21E-12	0.00E+00	6.62E-09
385	420711.16	3734020.44	1.90E-08	8.01E-08	3.51E-11	0.00E+00	9.91E-08	2.60E-09	1.09E-08	5.23E-12	0.00E+00	1.36E-08	1.60E-09	5.03E-09	1.21E-12	0.00E+00	6.63E-09
386	420720.59	3734018.75	1.90E-08	8.02E-08	3.52E-11	0.00E+00	9.92E-08	2.60E-09	1.10E-08	5.24E-12	0.00E+00	1.36E-08	1.60E-09	5.04E-09	1.22E-12	0.00E+00	6.64E-09
387	420730.01	3734017.07	1.90E-08	8.03E-08	3.52E-11	0.00E+00	9.93E-08	2.61E-09	1.10E-08	5.25E-12	0.00E+00	1.36E-08	1.60E-09	5.04E-09	1.22E-12	0.00E+00	6.64E-09
388	420758.29	3734012.01	1.90E-08	8.00E-08	3.51E-11	0.00E+00	9.90E-08	2.60E-09	1.09E-08	5.23E-12	0.00E+00	1.35E-08	1.59E-09	5.03E-09	1.21E-12	0.00E+00	6.63E-09
389	420767.72	3734010.32	1.89E-08	7.98E-08	3.50E-11	0.00E+00	9.88E-08	2.59E-09	1.09E-08	5.22E-12	0.00E+00	1.35E-08	1.59E-09	5.02E-09	1.21E-12	0.00E+00	6.61E-09
390	420777.14	3734008.64	1.89E-08	7.96E-08	3.49E-11	0.00E+00	9.85E-08	2.58E-09	1.09E-08	5.20E-12	0.00E+00	1.35E-08	1.59E-09	5.00E-09	1.21E-12	0.00E+00	6.59E-09
391	420786.57	3734006.95	1.88E-08	7.93E-08	3.48E-11	0.00E+00	9.81E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
392	420795.99	3734005.26	1.87E-08	7.89E-08	3.46E-11	0.00E+00	9.76E-08	2.56E-09	1.08E-08	5.16E-12	0.00E+00	1.34E-08	1.57E-09	4.96E-09	1.20E-12	0.00E+00	6.53E-09
393	420420.71	3734290.15	4.67E-08	1.97E-07	8.66E-11	0.00E+00	2.44E-07	6.41E-09	2.70E-08	1.29E-11	0.00E+00	3.34E-08	3.93E-09	1.24E-08	2.99E-12	0.00E+00	1.63E-08
394	420420.67	3734300.01	4.78E-08	2.02E-07	8.86E-11	0.00E+00	2.50E-07	6.55E-09	2.76E-08	1.32E-11	0.00E+00	3.42E-08	4.02E-09	1.27E-08	3.06E-12	0.00E+00	1.67E-08
395	420420.63	3734309.87	4.87E-08	2.06E-07	9.03E-11	0.00E+00	2.55E-07	6.68E-09	2.81E-08	1.34E-11	0.00E+00	3.48E-08	4.10E-09	1.29E-08	3.12E-12	0.00E+00	1.70E-08
396	420420.59	3734319.73	4.95E-08	2.09E-07	9.18E-11	0.00E+00	2.59E-07	6.79E-09	2.86E-08	1.37E-11	0.00E+00	3.54E-08	4.17E-09	1.31E-08	3.17E-12	0.00E+00	1.73E-08
397	420420.55	3734329.59	5.02E-08	2.12E-07	9.30E-11	0.00E+00	2.62E-07	6.88E-09	2.90E-08	1.38E-11	0.00E+00	3.59E-08	4.22E-09	1.33E-08	3.21E-12	0.00E+00	1.75E-08
398	420420.51	3734339.45	5.07E-08	2.14E-07	9.39E-11	0.00E+00	2.65E-07	6.95E-09	2.93E-08	1.40E-11	0.00E+00	3.62E-08	4.26E-09	1.34E-08	3.25E-12	0.00E+00	1.77E-08
399	420420.47	3734349.31	5.11E-08	2.16E-07	9.46E-11	0.00E+00	2.67E-07	7.00E-09	2.95E-08	1.41E-11	0.00E+00	3.65E-08	4.30E-09	1.36E-08	3.27E-12	0.00E+00	1.79E-08
400	420398.38	3734254.99	3.78E-08	1.60E-07	7.01E-11	0.00E+00	1.98E-07	5.19E-09	2.18E-08	1.04E-11	0.00E+00	2.70E-08	3.18E-09	1.00E-08	2.42E-12	0.00E+00	1.32E-08
401	420402.79	3734246.24	3.77E-08	1.59E-07	6.98E-11	0.00E+00	1.97E-07	5.17E-09	2.18E-08	1.04E-11	0.00E+00	2.69E-08	3.17E-09	1.00E-08	2.41E-12	0.00E+00	1.32E-08
402	420407.21	3734237.48	3.74E-08	1.58E-07	6.93E-11	0.00E+00	1.95E-07	5.13E-09	2.16E-08	1.03E-11	0.00E+00	2.67E-08	3.15E-09	9.92E-09	2.40E-12	0.00E+00	1.31E-08
403	420411.62	3734228.73	3.69E-08	1.56E-07	6.84E-11	0.00E+00	1.93E-07	5.06E-09	2.13E-08	1.02E-11	0.00E+00	2.64E-08	3.11E-09	9.80E-09	2.37E-12	0.00E+00	1.29E-08
404	420416.04	3734219.98	3.64E-08	1.54E-07	6.74E-11	0.00E+00	1.90E-07	4.98E-09	2.10E-08	1.00E-11	0.00E+00	2.60E-08	3.06E-09	9.65E-09	2.33E-12	0.00E+00	1.27E-08
405	420420.45	3734211.23	3.57E-08	1.51E-07	6.61E-11	0.00E+00	1.86E-07	4.89E-09	2.06E-08	9.84E-12	0.00E+00	2.55E-08	3.00E-09	9.46E-09	2.28E-12	0.00E+00	1.25E-08
406	420424.87	3734202.48	3.48E-08	1.47E-07	6.46E-11	0.00E+00	1.82E-07	4.78E-09	2.01E-08	9.62E-12	0.00E+00	2.49E-08	2.93E-09	9.25E-09	2.23E-12	0.00E+00	1.22E-08
407	420429.28	3734193.73	3.39E-08	1.43E-07	6.29E-11	0.00E+00	1.77E-07	4.65E-09	1.96E-08	9.37E-12	0.00E+00	2.43E-08	2.86E-09	9.01E-09	2.17E-12	0.00E+00	1.19E-08
408	420433.7	3734184.98	3.30E-08	1.39E-07	6.11E-11	0.00E+00	1.72E-07	4.52E-09	1.90E-08	9.09E-12	0.00E+00	2.36E-08	2.77E-09	8.74E-09	2.11E-12	0.00E+00	1.15E-08
409	420438.12	3734176.23	3.19E-08	1.35E-07	5.91E-11	0.00E+00	1.67E-07	4.37E-09	1.84E-08	8.80E-12	0.00E+00	2.28E-08	2.68E-09	8.47E-09	2.04E-12	0.00E+00	1.12E-08
410	420442.53	3734167.48	3.08E-08	1.30E-07	5.71E-11	0.00E+00	1.61E-07	4.22E-09	1.78E-08	8.50E-12	0.00E+00	2.20E-08	2.59E-09	8.17E-09	1.97E-12	0.00E+00	1.08E-08
411	420455.78	3734141.22	2.74E-08	1.16E-07	5.08E-11	0.00E+00	1.43E-07	3.76E-09	1.58E-08	7.56E-12	0.00E+00	1.96E-08	2.30E-09	7.27E-09	1.76E-12	0.00E+00	9.58E-09
412	420460.19	3734132.47	2.63E-08	1.11E-07	4.87E-11	0.00E+00	1.37E-07	3.60E-09	1.52E-08	7.25E-12	0.00E+00	1.88E-08	2.21E-09	6.98E-09	1.68E-12	0.00E+00	9.19E-09
413	420464.61	3734123.72	2.52E-08	1.06E-07	4.67E-11	0.00E+00	1.32E-07	3.45E-09	1.45E-08	6.95E-12	0.00E+00	1.80E-08	2.12E-09	6.69E-09	1.61E-12	0.00E+00	8.81E-09
414	420469.03	3734114.97	2.41E-08	1.02E-07	4.47E-11	0.00E+00	1.26E-07	3.31E-09	1.39E-08	6.66E-12	0.00E+00	1.72E-08	2.03E-09	6.40E-09	1.55E-12	0.00E+00	8.43E-09
415	420473.44	3734106.22	2.31E-08	9.75E-08	4.28E-11	0.00E+00	1.21E-07	3.17E-09	1.33E-08	6.37E-12	0.00E+00	1.65E-08	1.94E-09	6.13E-09	1.48E-12	0.00E+00	8.08E-09
416	420477.86	3734097.47	2.21E-08	9.34E-08	4.10E-11	0.00E+00	1.16E-07	3.03E-09	1.28E-08	6.10E-12	0.00E+00	1.58E-08	1.86E-09	5.87E-09	1.42E-12	0.00E+00	7.73E-09
417	420482.27	3734088.72	2.12E-08	8.94E-08	3.92E-11	0.00E+00	1.11E-07	2.90E-09	1.22E-08	5.84E-12	0.00E+00	1.51E-08	1.78E-09	5.62E-09	1.36E-12	0.00E+00	7.40E-09
418	420486.69	3734079.96	2.03E-08	8.57E-08	3.76E-11	0.00E+00	1.06E-07	2.78E-09	1.17E-08	5.60E-12	0.00E+00	1.45E-08	1.71E-09	5.38E-09	1.30E-12	0.00E+00	7.09E-09
419	420491.1	3734071.21	1.94E-08	8.21E-08	3.60E-11	0.00E+00	1.02E-07	2.66E-09	1.12E-08	5.36E-12	0.00E+00	1.39E-08	1.63E-09	5.16E-09	1.24E-12	0.00E+00	6.79E-09
420	420508.77	3734036.21	1.65E-08	6.95E-08	3.05E-11	0.00E+00	8.60E-08	2.26E-09	9.51E-09	4.54E-12	0.00E+00	1.18E-08	1.39E-09	4.37E-09	1.06E-12	0.00E+00	5.76E-09
421	420513.18	3734027.46	1.58E-08	6.69E-08	2.93E-11	0.00E+00	8.27E-08	2.17E-09	9.14E-09	4.37E-12	0.00E+00	1.13E-08	1.33E-09	4.20E-09	1.01E-12	0.00E+00	5.54E-09
422	420527.25	3734016.98	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.95E-08	2.09E-09	8.79E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.04E-09	9.75E-13	0.00E+00	5.32E-09
423	420536.9	3734015.25	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.94E-08	2.08E-09	8.78E-09	4.19E-12	0.00E+00	1.09E-08	1.28E-09	4.03E-09	9.74E-13	0.00E+00	5.31E-09
424	420546.54	3734013.53	1.52E-08	6.41E-08	2.81E-11	0.00E+00	7.94E-08	2.08E-09	8.77E-09	4.19E-12	0.00E+00	1.09E-08	1.28E-09	4.03E-09	9.73E-13	0.00E+00	5.31E-09
425	420556.19	3734011.8	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.94E-08	2.08E-09	8.78E-09	4.19E-12	0.00E+00	1.09E-08	1.28E-09	4.03E-09	9.74E-13	0.00E+00	5.31E-09
426	420565.84	3734010.08	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.95E-08	2.08E-09	8.78E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.04E-09	9.74E-13	0.00E+00	5.32E-09
427	420575.49	3734008.35	1.52E-08	6.43E-08	2.82E-11	0.00E+00	7.96E-08	2.09E-09	8.80E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.04E-09	9.76E-13	0.00E+00	5.33E-09
428	420585.14	3734006.63	1.53E-08	6.45E-08	2.83E-11	0.00E+00	7.98E-08	2.09E-09	8.82E-09	4.22E-12	0.00E+00	1.09E-08	1.29E-09	4.05E-09	9.79E-13	0.00E+00	5.34E-09
429	420594.79	3734004.9	1.53E-08	6.47E-08	2.84E-11	0.00E+00	8.01E-08	2.10E-09	8.85E-09	4.23E-12	0.00E+00	1.10E-08	1.29E-09	4.07E-09	9.82E-13	0.00E+00	5.36E-09
430	420604.44	3734003.17	1.54E-08	6.49E-08	2.85E-11	0.00E+00	8.03E-08	2.11E-09	8.88E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.85E-13	0.00E+00	5.37E-09
431	420614.09	3734001.45	1.54E-08	6.51E-08	2.86E-11	0.00E+00	8.06E-08	2.12E-09	8.91E-09	4.26E-12	0.00E+00	1.10E-08	1.30E-09	4.09E-09	9.88E-13	0.00E+00	5.39E-09
432	420633.38	3733998	1.55E-08	6.57E-08	2.88E-11	0.00E+00	8.12E-08	2.13E-09	8.98E-09	4.29E-12	0.00E+00	1.11E-08	1.31E-09	4.13E-09	9.96E-13	0.00E+00	5.44E-09
433	420643.03	3733996.27	1.56E-08	6.59E-08	2.89E-11	0.00E+00	8.16E-08	2.14E-09	9.02E-09	4.31E-12	0.00E+00	1.12E-08	1.31E-09	4.14E-09	1.00E-12	0.00E+00	5.46E-09
434	420652.68	3733994.54	1.57E-08	6.62E-08	2.90E-11	0.00E+00	8.19E-08	2.15E-09	9.05E-09	4.33E-12	0.00E+00	1.12E-08	1.32E-09	4.16E-09	1.00E-12	0.00E+00	5.48E-09
435	420662.33	3733992.82	1.57E-08	6.65E-08	2.92E-11	0.00E+00	8.22E-08	2.16E-09	9.09E-09	4.34E-12	0.00E+00	1.13E-08	1.32E-09	4.18E-09	1.01E-12	0.00E+00	5.50E-09
436	420671.98	3733991.09	1.58E-08	6.67E-08	2.93E-11	0.00E+00	8.25E-08	2.17E-09	9.12E-09	4.36E-12	0.00E+00	1.13E-08	1.33E-09	4.19E-09	1.01E-12	0.00E+00	5.52E-09
437	420681.63	3733989.37	1.59E-08	6.69E-08	2.94E-11	0.00E+00	8.28E-08	2.17E-09	9.15E-09	4.37E-12	0.00E+00	1.13E-08	1.33E-09	4.21E-09	1.02E-12	0.00E+00	5.54E-09
438	420691.28	3733987.64	1.59E-08	6.71E-08	2.95E-11	0.00E+00	8.31E-08	2.18E-09	9.18E-09	4.39E-12	0.00E+00	1.14E-08	1.34E-09	4.22E-09	1.02E-12	0.00E+00	5.56E-09
439	420700.93	3733985.92	1.59E-08	6.73E-08	2.95E-11	0.00E+00	8.33E-08	2.19E-09	9.20E-09	4.40E-12	0.00E+00	1.14E-08	1.34E-09	4.23E-09	1.02E-12	0.00E+00	5.57E-09
440	420710.58	3733984.19	1.60E-08	6.74E-08	2.96E-11	0.00E+00	8.34E-08	2.19E-09	9.22E-09	4.41E-12	0.00E+00	1.14E-08	1.34E-09	4.24E-09	1.02E-12	0.00E+00	5.58E-09
441	420720.22	3733982.46	1.60E-08	6.75E-08	2.96E-11	0.00E+00	8.36E-08	2.19E-09	9.24E-09	4.41E-12	0.00E+00	1.14E-08	1.35E-09	4.24E-09	1.02E-12	0.00E+00	5.59E-09
442	420729.87	3733980.74	1.60E-08	6.76E-08	2.97E-11	0.00E+00	8.37E-08	2.19E-09	9.25E-09	4.42E-12	0.00E+00	1.14E-08	1.35E-09	4.25E-09	1.03E-12	0.00E+00	5.60E-09
443	420758.82	3733975.56	1.60E-08	6.75E-08	2.96E-11	0.00E+00	8.35E-08	2.19E-09	9.23E-09	4.41E-12	0.00E+00	1.14E-08	1.35E-09	4.24E-09	1.02E-12	0.00E+00	5.59E-09
444	420768.47	3733973.83	1.60E-08	6.74E-08	2.96E-11	0.00E+00	8.34E-08	2.19E-09	9.21E-09	4.40E-12	0.00E+00	1.14E-08	1.34E-09	4.23E-09	1.02E-12	0.00E+00	5.58E-09
445	420778.12	3733972.11	1.59E-08	6.72E-08	2.95E-11	0.00E+00	8.32E-08	2.18E-09	9.19E-09	4.39E-12	0.00E+00	1.14E-08	1.34E-09	4.22E-09	1.02E-12	0.00E+00	5.56E-09
446	420787.77	3733970.38	1.59E-08	6.70E-08	2.94E-11	0.00E+00	8.29E-08	2.17E-09	9.16E-09	4.38E-12	0.00E+00	1.13E-08	1.33E-09	4.21E-09	1.02E-12	0.00E+00	5.55E-09
447	420797.42	3733968.66	1.58E-08	6.67E-08	2.93E-11	0.00E+00	8.26E-08	2.17E-09	9.12E-09	4.36E-12	0.00E+00	1.13E-08	1.33E-09	4.19E-09	1.01E-12	0.00E+00	5.52E-09
448	420807.06	3733966.93	1.57E-08	6.64E-08	2.91E-11	0.00E+00	8.22E-08	2.16E-09	9.08E-09	4.34E-12	0.00E+00	1.12E-08	1.32E-09	4.17E-09	1.01E-12	0.00E+00	5.50E-09
449	420380.71	3734289.99	3.70E-08	1.56E-07	6.85E-11	0.00E+00	1.93E-07	5.07E-09	2.13E-08	1.02E-11	0.00E+00	2.64E-08	3.11E-09	9.81E-09	2.37E-12	0.00E+00	1.29E-08
450	420380.67	3734299.85	3.74E-08	1.58E-07	6.94E-11	0.00E+00	1.96E-07	5.13E-09	2.16E-08	1.03E-11	0.00E+00	2.68E-08	3.15E-09	9.94E-09	2.40E-12	0.00E+00	1.31E-08
451	420380.63	3734309.71	3.78E-08	1.60E-07	7.01E-11	0.00E+00	1.98E-07	5.18E-09	2.18E-08	1.04E-11	0.00E+00	2.70E-08	3.18E-09	1.00E-08	2.42E-12	0.00E+00	1.32E-08
452	420380.59	3734319.57	3.81E-08	1.61E-07	7.06E-11	0.00E+00	1.99E-07	5.22E-09	2.20E-08	1.05E-11	0.00E+00	2.72E-08	3.21E-09	1.01E-08	2.44E-12	0.00E+00	1.33E-08
453	420380.55	3734329.43	3.83E-08	1.62E-07	7.10E-11	0.00E+00	2.00E-07	5.25E-09	2.21E-08	1.06E-11	0.00E+00	2.74E-08	3.22E-09	1.02E-08	2.45E-12	0.00E+00	1.34E-08
454	420380.51	3734339.29	3.84E-08	1.62E-07	7.12E-11	0.00E+00	2.01E-07	5.27E-09	2.22E-08	1.06E-11	0.00E+00	2.75E-08	3.23E-09	1.02E-08	2.46E-12	0.00E+00	1.34E-08
455	420380.47	3734349.15	3.85E-08	1.62E-07	7.13E-11	0.00E+00	2.01E-07	5.27E-09	2.22E-08	1.06E-11	0.00E+00	2.75E-08	3.24E-09	1.02E-08	2.46E-12	0.00E+00	1.34E-08
456	420358.2	3734255.18	3.10E-08	1.31E-07	5.74E-11	0.00E+00	1.62E-07	4.25E-09	1.79E-08	8.55E-12	0.00E+00	2.21E-08	2.61E-09	8.22E-09	1.98E-12	0.00E+00	1.08E-08

457	420362.57	3734246.51	3.11E-08	1.31E-07	5.77E-11	0.00E+00	1.63E-07	4.27E-09	1.80E-08	8.59E-12	0.00E+00	2.23E-08	2.62E-09	8.26E-09	1.99E-12	0.00E+00	1.09E-08
458	420366.94	3734237.85	3.12E-08	1.32E-07	5.78E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.61E-12	0.00E+00	2.23E-08	2.62E-09	8.28E-09	2.00E-12	0.00E+00	1.09E-08
459	420388.8	3734194.54	2.99E-08	1.26E-07	5.54E-11	0.00E+00	1.56E-07	4.10E-09	1.73E-08	8.25E-12	0.00E+00	2.14E-08	2.51E-09	7.93E-09	1.91E-12	0.00E+00	1.04E-08
460	420393.17	3734185.87	2.94E-08	1.24E-07	5.44E-11	0.00E+00	1.53E-07	4.02E-09	1.70E-08	8.10E-12	0.00E+00	2.10E-08	2.47E-09	7.79E-09	1.88E-12	0.00E+00	1.03E-08
461	420397.54	3734177.21	2.88E-08	1.21E-07	5.33E-11	0.00E+00	1.50E-07	3.94E-09	1.66E-08	7.93E-12	0.00E+00	2.06E-08	2.42E-09	7.63E-09	1.84E-12	0.00E+00	1.01E-08
462	420401.91	3734168.55	2.81E-08	1.19E-07	5.20E-11	0.00E+00	1.47E-07	3.85E-09	1.62E-08	7.75E-12	0.00E+00	2.01E-08	2.36E-09	7.45E-09	1.80E-12	0.00E+00	9.81E-09
463	420415.02	3734142.56	2.57E-08	1.09E-07	4.76E-11	0.00E+00	1.34E-07	3.52E-09	1.48E-08	7.10E-12	0.00E+00	1.84E-08	2.16E-09	6.82E-09	1.65E-12	0.00E+00	8.99E-09
464	420419.39	3734133.9	2.49E-08	1.05E-07	4.61E-11	0.00E+00	1.30E-07	3.41E-09	1.44E-08	6.86E-12	0.00E+00	1.78E-08	2.09E-09	6.60E-09	1.59E-12	0.00E+00	8.69E-09
465	420423.76	3734125.23	2.40E-08	1.01E-07	4.45E-11	0.00E+00	1.25E-07	3.29E-09	1.39E-08	6.63E-12	0.00E+00	1.72E-08	2.02E-09	6.37E-09	1.54E-12	0.00E+00	8.39E-09
466	420428.14	3734116.57	2.32E-08	9.78E-08	4.29E-11	0.00E+00	1.21E-07	3.18E-09	1.34E-08	6.39E-12	0.00E+00	1.66E-08	1.95E-09	6.15E-09	1.48E-12	0.00E+00	8.10E-09
467	420432.51	3734107.91	2.23E-08	9.42E-08	4.13E-11	0.00E+00	1.17E-07	3.06E-09	1.29E-08	6.16E-12	0.00E+00	1.60E-08	1.88E-09	5.92E-09	1.43E-12	0.00E+00	7.80E-09
468	420436.88	3734099.25	2.15E-08	9.07E-08	3.98E-11	0.00E+00	1.12E-07	2.94E-09	1.24E-08	5.93E-12	0.00E+00	1.53E-08	1.81E-09	5.70E-09	1.38E-12	0.00E+00	7.51E-09
469	420441.25	3734090.58	2.07E-08	8.72E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.70E-12	0.00E+00	1.48E-08	1.74E-09	5.48E-09	1.32E-12	0.00E+00	7.22E-09
470	420445.62	3734081.92	1.99E-08	8.39E-08	3.68E-11	0.00E+00	1.04E-07	2.72E-09	1.15E-08	5.48E-12	0.00E+00	1.42E-08	1.67E-09	5.27E-09	1.27E-12	0.00E+00	6.94E-09
471	420449.99	3734073.26	1.91E-08	8.06E-08	3.54E-11	0.00E+00	9.97E-08	2.62E-09	1.10E-08	5.27E-12	0.00E+00	1.36E-08	1.61E-09	5.07E-09	1.22E-12	0.00E+00	6.67E-09
472	420454.36	3734064.59	1.83E-08	7.75E-08	3.40E-11	0.00E+00	9.58E-08	2.51E-09	1.06E-08	5.06E-12	0.00E+00	1.31E-08	1.54E-09	4.87E-09	1.18E-12	0.00E+00	6.41E-09
473	420467.48	3734038.61	1.63E-08	6.88E-08	3.02E-11	0.00E+00	8.51E-08	2.23E-09	9.41E-09	4.50E-12	0.00E+00	1.16E-08	1.37E-09	4.32E-09	1.04E-12	0.00E+00	5.69E-09
474	420471.85	3734029.94	1.57E-08	6.62E-08	2.90E-11	0.00E+00	8.19E-08	2.15E-09	9.05E-09	4.32E-12	0.00E+00	1.12E-08	1.32E-09	4.16E-09	1.00E-12	0.00E+00	5.48E-09
475	420476.22	3734021.28	1.51E-08	6.37E-08	2.80E-11	0.00E+00	7.88E-08	2.07E-09	8.71E-09	4.16E-12	0.00E+00	1.08E-08	1.27E-09	4.00E-09	9.66E-13	0.00E+00	5.27E-09
476	420480.59	3734012.62	1.45E-08	6.13E-08	2.69E-11	0.00E+00	7.59E-08	1.99E-09	8.39E-09	4.01E-12	0.00E+00	1.04E-08	1.22E-09	3.86E-09	9.31E-13	0.00E+00	5.08E-09
477	420484.96	3734003.95	1.40E-08	5.91E-08	2.59E-11	0.00E+00	7.31E-08	1.92E-09	8.08E-09	3.86E-12	0.00E+00	1.00E-08	1.18E-09	3.72E-09	8.97E-13	0.00E+00	4.89E-09
478	420489.33	3733995.29	1.35E-08	5.70E-08	2.50E-11	0.00E+00	7.05E-08	1.85E-09	7.80E-09	3.73E-12	0.00E+00	9.65E-09	1.14E-09	3.58E-09	8.65E-13	0.00E+00	4.72E-09
479	420512.81	3733983.21	1.30E-08	5.48E-08	2.41E-11	0.00E+00	6.78E-08	1.78E-09	7.50E-09	3.58E-12	0.00E+00	9.28E-09	1.09E-09	3.45E-09	8.32E-13	0.00E+00	4.54E-09
480	420522.36	3733981.5	1.30E-08	5.48E-08	2.40E-11	0.00E+00	6.78E-08	1.78E-09	7.49E-09	3.58E-12	0.00E+00	9.27E-09	1.09E-09	3.44E-09	8.31E-13	0.00E+00	4.53E-09
481	420531.91	3733979.79	1.30E-08	5.47E-08	2.40E-11	0.00E+00	6.77E-08	1.78E-09	7.48E-09	3.58E-12	0.00E+00	9.26E-09	1.09E-09	3.44E-09	8.30E-13	0.00E+00	4.53E-09
482	420541.46	3733978.09	1.30E-08	5.47E-08	2.40E-11	0.00E+00	6.77E-08	1.78E-09	7.48E-09	3.58E-12	0.00E+00	9.26E-09	1.09E-09	3.44E-09	8.30E-13	0.00E+00	4.53E-09
483	420551.01	3733976.38	1.30E-08	5.47E-08	2.40E-11	0.00E+00	6.77E-08	1.78E-09	7.49E-09	3.58E-12	0.00E+00	9.27E-09	1.09E-09	3.44E-09	8.31E-13	0.00E+00	4.53E-09
484	420560.56	3733974.67	1.30E-08	5.48E-08	2.41E-11	0.00E+00	6.78E-08	1.78E-09	7.50E-09	3.58E-12	0.00E+00	9.28E-09	1.09E-09	3.45E-09	8.32E-13	0.00E+00	4.54E-09
485	420570.11	3733972.96	1.30E-08	5.49E-08	2.41E-11	0.00E+00	6.80E-08	1.78E-09	7.51E-09	3.59E-12	0.00E+00	9.30E-09	1.09E-09	3.45E-09	8.33E-13	0.00E+00	4.55E-09
486	420579.67	3733971.25	1.30E-08	5.51E-08	2.42E-11	0.00E+00	6.81E-08	1.79E-09	7.53E-09	3.60E-12	0.00E+00	9.32E-09	1.10E-09	3.46E-09	8.35E-13	0.00E+00	4.56E-09
487	420589.22	3733969.54	1.31E-08	5.52E-08	2.42E-11	0.00E+00	6.83E-08	1.79E-09	7.55E-09	3.61E-12	0.00E+00	9.34E-09	1.10E-09	3.47E-09	8.37E-13	0.00E+00	4.57E-09
488	420598.77	3733967.84	1.31E-08	5.54E-08	2.43E-11	0.00E+00	6.85E-08	1.80E-09	7.57E-09	3.62E-12	0.00E+00	9.38E-09	1.10E-09	3.48E-09	8.40E-13	0.00E+00	4.59E-09
489	420608.32	3733966.13	1.32E-08	5.56E-08	2.44E-11	0.00E+00	6.88E-08	1.80E-09	7.60E-09	3.63E-12	0.00E+00	9.41E-09	1.11E-09	3.49E-09	8.43E-13	0.00E+00	4.60E-09
490	420636.98	3733961	1.33E-08	5.62E-08	2.47E-11	0.00E+00	6.96E-08	1.83E-09	7.69E-09	3.67E-12	0.00E+00	9.52E-09	1.12E-09	3.53E-09	8.53E-13	0.00E+00	4.65E-09
491	420646.53	3733959.29	1.34E-08	5.64E-08	2.48E-11	0.00E+00	6.98E-08	1.83E-09	7.72E-09	3.69E-12	0.00E+00	9.55E-09	1.12E-09	3.55E-09	8.56E-13	0.00E+00	4.67E-09
492	420656.08	3733957.58	1.34E-08	5.66E-08	2.49E-11	0.00E+00	7.01E-08	1.84E-09	7.75E-09	3.70E-12	0.00E+00	9.59E-09	1.13E-09	3.56E-09	8.59E-13	0.00E+00	4.69E-09
493	420665.63	3733955.88	1.35E-08	5.68E-08	2.49E-11	0.00E+00	7.03E-08	1.85E-09	7.77E-09	3.72E-12	0.00E+00	9.62E-09	1.13E-09	3.57E-09	8.62E-13	0.00E+00	4.71E-09
494	420675.18	3733954.17	1.35E-08	5.71E-08	2.50E-11	0.00E+00	7.06E-08	1.85E-09	7.80E-09	3.73E-12	0.00E+00	9.66E-09	1.14E-09	3.59E-09	8.66E-13	0.00E+00	4.72E-09
495	420684.73	3733952.46	1.36E-08	5.72E-08	2.51E-11	0.00E+00	7.08E-08	1.86E-09	7.83E-09	3.74E-12	0.00E+00	9.69E-09	1.14E-09	3.60E-09	8.68E-13	0.00E+00	4.74E-09
496	420694.29	3733950.75	1.36E-08	5.74E-08	2.52E-11	0.00E+00	7.10E-08	1.86E-09	7.85E-09	3.75E-12	0.00E+00	9.72E-09	1.14E-09	3.61E-09	8.71E-13	0.00E+00	4.75E-09
497	420703.84	3733949.04	1.36E-08	5.75E-08	2.52E-11	0.00E+00	7.12E-08	1.87E-09	7.87E-09	3.76E-12	0.00E+00	9.74E-09	1.15E-09	3.62E-09	8.73E-13	0.00E+00	4.76E-09
498	420340.71	3734289.83	2.94E-08	1.24E-07	5.45E-11	0.00E+00	1.54E-07	4.03E-09	1.70E-08	8.12E-12	0.00E+00	2.10E-08	2.47E-09	7.81E-09	1.88E-12	0.00E+00	1.03E-08
499	420340.67	3734299.69	2.96E-08	1.25E-07	5.48E-11	0.00E+00	1.55E-07	4.05E-09	1.71E-08	8.16E-12	0.00E+00	2.11E-08	2.49E-09	7.85E-09	1.89E-12	0.00E+00	1.03E-08
500	420340.63	3734309.55	2.97E-08	1.25E-07	5.50E-11	0.00E+00	1.55E-07	4.07E-09	1.71E-08	8.19E-12	0.00E+00	2.12E-08	2.50E-09	7.88E-09	1.90E-12	0.00E+00	1.04E-08
501	420340.59	3734319.41	2.98E-08	1.26E-07	5.51E-11	0.00E+00	1.55E-07	4.08E-09	1.72E-08	8.21E-12	0.00E+00	2.13E-08	2.50E-09	7.90E-09	1.91E-12	0.00E+00	1.04E-08
502	420340.55	3734329.27	2.98E-08	1.26E-07	5.52E-11	0.00E+00	1.56E-07	4.08E-09	1.72E-08	8.21E-12	0.00E+00	2.13E-08	2.50E-09	7.90E-09	1.91E-12	0.00E+00	1.04E-08
503	420340.51	3734339.13	2.97E-08	1.26E-07	5.51E-11	0.00E+00	1.55E-07	4.08E-09	1.72E-08	8.21E-12	0.00E+00	2.13E-08	2.50E-09	7.89E-09	1.90E-12	0.00E+00	1.04E-08
504	420340.47	3734348.99	2.97E-08	1.25E-07	5.50E-11	0.00E+00	1.55E-07	4.07E-09	1.71E-08	8.19E-12	0.00E+00	2.12E-08	2.50E-09	7.87E-09	1.90E-12	0.00E+00	1.04E-08
505	420340.39	3734368.71	2.94E-08	1.24E-07	5.45E-11	0.00E+00	1.54E-07	4.03E-09	1.70E-08	8.12E-12	0.00E+00	2.10E-08	2.47E-09	7.81E-09	1.88E-12	0.00E+00	1.03E-08
506	420318.06	3734255.3	2.53E-08	1.07E-07	4.70E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.99E-12	0.00E+00	1.81E-08	2.13E-09	6.73E-09	1.62E-12	0.00E+00	8.86E-09
507	420322.39	3734246.7	2.56E-08	1.08E-07	4.75E-11	0.00E+00	1.34E-07	3.51E-09	1.48E-08	7.08E-12	0.00E+00	1.83E-08	2.16E-09	6.80E-09	1.64E-12	0.00E+00	8.96E-09
508	420326.73	3734238.11	2.59E-08	1.09E-07	4.79E-11	0.00E+00	1.35E-07	3.55E-09	1.49E-08	7.14E-12	0.00E+00	1.85E-08	2.18E-09	6.86E-09	1.66E-12	0.00E+00	9.04E-09
509	420331.06	3734229.52	2.60E-08	1.10E-07	4.82E-11	0.00E+00	1.36E-07	3.57E-09	1.50E-08	7.18E-12	0.00E+00	1.86E-08	2.19E-09	6.91E-09	1.67E-12	0.00E+00	9.10E-09
510	420335.4	3734220.92	2.61E-08	1.10E-07	4.84E-11	0.00E+00	1.36E-07	3.58E-09	1.51E-08	7.20E-12	0.00E+00	1.87E-08	2.20E-09	6.93E-09	1.67E-12	0.00E+00	9.12E-09
511	420339.73	3734212.33	2.61E-08	1.10E-07	4.84E-11	0.00E+00	1.36E-07	3.58E-09	1.51E-08	7.20E-12	0.00E+00	1.87E-08	2.20E-09	6.93E-09	1.67E-12	0.00E+00	9.12E-09
512	420344.07	3734203.74	2.60E-08	1.10E-07	4.82E-11	0.00E+00	1.36E-07	3.57E-09	1.50E-08	7.18E-12	0.00E+00	1.86E-08	2.19E-09	6.91E-09	1.67E-12	0.00E+00	9.10E-09
513	420348.41	3734195.15	2.59E-08	1.09E-07	4.80E-11	0.00E+00	1.35E-07	3.55E-09	1.49E-08	7.14E-12	0.00E+00	1.85E-08	2.18E-09	6.87E-09	1.66E-12	0.00E+00	9.05E-09
514	420352.74	3734186.55	2.57E-08	1.08E-07	4.76E-11	0.00E+00	1.34E-07	3.52E-09	1.48E-08	7.08E-12	0.00E+00	1.83E-08	2.16E-09	6.81E-09	1.64E-12	0.00E+00	8.97E-09
515	420357.08	3734177.96	2.54E-08	1.07E-07	4.70E-11	0.00E+00	1.33E-07	3.48E-09	1.47E-08	7.00E-12	0.00E+00	1.81E-08	2.13E-09	6.73E-09	1.63E-12	0.00E+00	8.87E-09
516	420361.41	3734169.37	2.50E-08	1.06E-07	4.64E-11	0.00E+00	1.31E-07	3.43E-09	1.44E-08	6.90E-12	0.00E+00	1.79E-08	2.10E-09	6.64E-09	1.60E-12	0.00E+00	8.75E-09
517	420387.43	3734117.81	2.18E-08	9.20E-08	4.04E-11	0.00E+00	1.14E-07	2.99E-09	1.26E-08	6.01E-12	0.00E+00	1.56E-08	1.83E-09	5.78E-09	1.40E-12	0.00E+00	7.62E-09
518	420391.76	3734109.22	2.12E-08	8.93E-08	3.92E-11	0.00E+00	1.11E-07	2.90E-09	1.22E-08	5.84E-12	0.00E+00	1.51E-08	1.78E-09	5.61E-09	1.36E-12	0.00E+00	7.39E-09
519	420396.1	3734100.63	2.05E-08	8.66E-08	3.80E-11	0.00E+00	1.07E-07	2.81E-09	1.18E-08	5.66E-12	0.00E+00	1.47E-08	1.73E-09	5.44E-09	1.31E-12	0.00E+00	7.17E-09
520	420400.43	3734092.03	1.99E-08	8.38E-08	3.68E-11	0.00E+00	1.04E-07	2.72E-09	1.15E-08	5.48E-12	0.00E+00	1.42E-08	1.67E-09	5.27E-09	1.27E-12	0.00E+00	6.94E-09
521	420404.77	3734083.44	1.92E-08	8.10E-08	3.56E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.30E-12	0.00E+00	1.37E-08	1.61E-09	5.09E-09	1.23E-12	0.00E+00	6.71E-09
522	420409.11	3734074.85	1.85E-08	7.83E-08	3.44E-11	0.00E+00	9.69E-08	2.54E-09	1.07E-08	5.12E-12	0.00E+00	1.33E-08	1.56E-09	4.92E-09	1.19E-12	0.00E+00	6.48E-09
523	420413.44	3734066.26	1.79E-08	7.56E-08	3.32E-11	0.00E+00	9.35E-08	2.45E-09	1.03E-08	4.94E-12	0.00E+00	1.28E-08	1.51E-09	4.75E-09	1.15E-12	0.00E+00	6.26E-09
524	420426.45	3734040.48	1.60E-08	6.77E-08	2.97E-11	0.00E+00	8.38E-08	2.20E-09	9.26E-09	4.43E-12	0.00E+00	1.15E-08	1.35E-09	4.26E-09	1.03E-12	0.00E+00	5.61E-09
525	420430.78	3734031.88	1.55E-08	6.53E-08	2.87E-11	0.00E+00	8.08E-08	2.12E-09	8.93E-09	4.27E-12	0.00E+00	1.11E-08	1.30E-09	4.10E-09	9.91E-13	0.00E+00	5.41E-09
526	420435.12	3734023.29	1.49E-08	6.30E-08	2.76E-11	0.00E+00	7.79E-08	2.04E-09	8.61E-09	4.12E-12	0.00E+00	1.07E-08	1.25E-09	3.96E-09	9.55E-13	0.00E+00	5.21E-09
527	420439.46	3734014.7	1.44E-08	6.07E-08	2.66E-11	0.00E+00	7.51E-08	1.97E-09	8.30E-09	3.97E-12	0.00E+00	1.03E-08	1.21E-09	3.82E-09	9.21E-13	0.00E+00	5.03E-09
528	420443.79	3734006.11	1.39E-08	5.86E-08	2.57E-11	0.00E+00	7.25E-08	1.90E-09	8.01E-09	3.83E-12	0.00E+00	9.91E-09	1.17E-09	3.68E-09	8.88E-13	0.00E+00	4.85E-09
529	420448.13	3733997.51	1.34E-08	5.65E-08	2.48E-11	0.00E+00	6.99E-08	1.83E-09	7.73E-09	3.69E-12	0.00E+00	9.56E-09	1.13E-09	3.55E-09	8.57E-13	0.00E+00	4.68E-09
530	420452.46	3733988.92	1.29E-08	5.45E-08	2.39E-11	0.00E+00	6.75E-08	1.77E-09	7.46E-09	3.56E-12	0.00E+00	9.23E-09	1.09E-09	3.43E-09	8.27E-13	0.00E+00	4.51E-09
531	420456.8	3733980.33	1.25E-08	5.27E-08	2.31E-11	0.00E+00	6.52E-08	1.71E-09	7.20E-09	3.44E-12	0.00E+00	8.92E-09	1.05E-09	3.31E-09	7.99E-13	0.00E+00	4.36E-09
532	420461.13	3733971.74	1.21E-08	5.09E-08	2.23E-11	0.00E+00	6.30E-08	1.65E-09	6.96E-09	3.33E-12	0.00E+00	8.61E-09	1.01E-09	3.20E-09	7.72E-13	0.00E+00	4.21E-09
533	420465.47	3733963.14	1.17E-08	4.92E-08	2.16E-11	0.00E+00	6.09E-08	1.60E-09	6.73E-09	3.22E-12	0.00E+00	8.33E-09	9.80E-10	3.09E-09	7.46E-13	0.00E+00	4.07E-09
534	420479.28	3733952.86	1.13E-08	4.75E-08	2.08E-11	0.00E+00	5.88E-08	1.54E-09	6.50E-09	3.10E-12	0.00E+00	8.04E-09	9.47E-10	2.99E-09	7.21E-13	0.00E+00	3.93E-09
535	420488.75	3733951.16	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.87E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.02E-09	9.45E-10	2.98E-09	7.19E-13	0.00E+00	3.92E-09
536	420630.87	3733925.74	1.15E-08	4.86E-08	2.13E-11	0.00E+00	6.01E-08	1.58E-09	6.64E-09	3.17E-12	0.00E+00	8.22E-09	9.68E-10	3.05E-09	7.37E-13	0.00E+00	4.02E-09
537	420640.34	3733924.05	1.15E-08	4.88E-08	2.14E-11	0.00E+00	6.03E-08	1.58E-09	6.67E-09	3.19E-12	0.00E+00	8.25E-09	9.71E-10	3.06E-09	7.40E-13	0.00E+00	4.04E-09
538	420649.82	3733922.35	1.16E-08	4.90E-08	2.15E-11	0.00E+00	6.06E-08	1.59E-09	6.69E-09	3.20E-12	0.00E+00	8.29E-09	9.75E-10	3.08E-09	7.43E-13	0.00E+00	4.05E-09
539	420659.29	3733920.66	1.16E-08	4.91E-08	2.16E-11	0.00E+00	6.08E-08	1.60E-09	6.72E-09	3.21E-12	0.00E+00	8.32E-09	9.79E-10	3.09E-09	7.46E-13	0.00E+00	4.07E-09
540	420668.77	3733918.96	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.74E-09	3.22E-12	0.00E+00	8.35E-09	9.83E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
541	420678.24	3733917.27	1.17E-08	4.95E-08	2.17E-11	0.00E+00	6.12E-08	1.61E-09	6.77E-09	3.23E-12	0.00E+00	8.38E-09	9.86E-10	3.11E-09	7.51E-13	0.00E+00	4.10E-09
542	420687.71	3733915.57	1.18E-08	4.96E-08	2.18E-11	0.00E+00	6.14E-08	1.61E-09	6.79E-09	3.24E-12	0.00E+00	8.40E-09	9.89E-10	3.12E-09	7.53E-13	0.00E+00	4.11E-09
543	420697.19	3733913.88	1.18E-08	4.98E-08	2.18E-11	0.00E+00	6.16E-08	1.62E-09	6.80E-09	3.25E-12	0.00E+00	8.42E-09	9.91E-10	3.13E-09	7.55E-13	0.00E+00	4.12E-09
544	420706.66	3733912.19	1.18E-08	4.99E-08	2.19E-11	0.00E+00	6.17E-08	1.62E-09	6.82E-09	3.26E-12	0.00E+00	8.44E-09	9.94E-10	3.13E-09	7.57E-13	0.00E+00	4.13E-09
545	420716.14	3733910.49	1.18E-08	5.00E-08	2.19E-11	0.00E+00	6.18E-08	1.62E-09	6.83E-09	3.26E-12	0.00E+00	8.46E-09	9.95E-10	3.14E-09	7.58E-13	0.00E+00	4.14E-09
546	420725.61	3733908.8	1.18E-08	5.00E-08	2.19E-11	0.00E+00	6.19E-08	1.62E-09	6.84E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.14E-09	7.59E-13	0.00E+00	4.14E-09
547	420735.09	3733907.1	1.19E-08	5.01E-08	2.20E-11	0.00E+00	6.19E-08	1.63E-09	6.85E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.15E-09	7.59E-13	0.00E+00	4.14E-09
548	420744.56	3733905.41	1.19E-08	5.01E-08	2.20E-11	0.00E+00	6.20E-08	1.63E-09	6.85E-09	3.27E-12	0.00E+00	8.48E-09	9.98E-10	3.15E-09	7.60E-13	0.00E+00	4.15E-09

549	420754.03	3733903.71	1.19E-08	5.01E-08	2.20E-11	0.00E+00	6.19E-08	1.63E-09	6.85E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.15E-09	7.59E-13	0.00E+00	4.14E-09
550	420763.51	3733902.02	1.18E-08	5.00E-08	2.20E-11	0.00E+00	6.19E-08	1.62E-09	6.84E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.14E-09	7.59E-13	0.00E+00	4.14E-09
551	420772.98	3733900.32	1.18E-08	5.00E-08	2.19E-11	0.00E+00	6.18E-08	1.62E-09	6.83E-09	3.26E-12	0.00E+00	8.46E-09	9.95E-10	3.14E-09	7.58E-13	0.00E+00	4.14E-09
552	420782.46	3733898.63	1.18E-08	4.99E-08	2.19E-11	0.00E+00	6.17E-08	1.62E-09	6.82E-09	3.26E-12	0.00E+00	8.44E-09	9.94E-10	3.13E-09	7.57E-13	0.00E+00	4.13E-09
553	420791.93	3733896.93	1.18E-08	4.98E-08	2.18E-11	0.00E+00	6.16E-08	1.62E-09	6.81E-09	3.25E-12	0.00E+00	8.43E-09	9.92E-10	3.13E-09	7.55E-13	0.00E+00	4.12E-09
554	420801.41	3733895.24	1.18E-08	4.97E-08	2.18E-11	0.00E+00	6.15E-08	1.61E-09	6.79E-09	3.25E-12	0.00E+00	8.41E-09	9.90E-10	3.12E-09	7.54E-13	0.00E+00	4.11E-09
555	420810.88	3733893.54	1.17E-08	4.95E-08	2.17E-11	0.00E+00	6.13E-08	1.61E-09	6.77E-09	3.24E-12	0.00E+00	8.39E-09	9.87E-10	3.11E-09	7.52E-13	0.00E+00	4.10E-09
556	420820.35	3733891.85	1.17E-08	4.94E-08	2.17E-11	0.00E+00	6.11E-08	1.60E-09	6.75E-09	3.23E-12	0.00E+00	8.36E-09	9.84E-10	3.10E-09	7.49E-13	0.00E+00	4.09E-09
557	420829.83	3733890.16	1.16E-08	4.92E-08	2.16E-11	0.00E+00	6.08E-08	1.60E-09	6.72E-09	3.21E-12	0.00E+00	8.32E-09	9.80E-10	3.09E-09	7.46E-13	0.00E+00	4.07E-09
558	420300.51	3734338.97	2.35E-08	9.91E-08	4.35E-11	0.00E+00	1.23E-07	3.22E-09	1.36E-08	6.48E-12	0.00E+00	1.68E-08	1.97E-09	6.23E-09	1.50E-12	0.00E+00	8.21E-09
559	420300.47	3734348.83	2.34E-08	9.87E-08	4.33E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.45E-12	0.00E+00	1.67E-08	1.97E-09	6.20E-09	1.50E-12	0.00E+00	8.17E-09
560	420300.39	3734368.55	2.31E-08	9.76E-08	4.28E-11	0.00E+00	1.21E-07	3.17E-09	1.33E-08	6.38E-12	0.00E+00	1.65E-08	1.94E-09	6.13E-09	1.48E-12	0.00E+00	8.08E-09
561	420278.35	3734254.55	2.09E-08	8.81E-08	3.87E-11	0.00E+00	1.09E-07	2.86E-09	1.20E-08	5.76E-12	0.00E+00	1.49E-08	1.76E-09	5.54E-09	1.34E-12	0.00E+00	7.29E-09
562	420282.76	3734245.81	2.12E-08	8.95E-08	3.93E-11	0.00E+00	1.11E-07	2.91E-09	1.22E-08	5.85E-12	0.00E+00	1.52E-08	1.78E-09	5.63E-09	1.36E-12	0.00E+00	7.41E-09
563	420287.17	3734237.07	2.15E-08	9.08E-08	3.98E-11	0.00E+00	1.12E-07	2.95E-09	1.24E-08	5.93E-12	0.00E+00	1.54E-08	1.81E-09	5.70E-09	1.38E-12	0.00E+00	7.51E-09
564	420291.58	3734228.33	2.17E-08	9.18E-08	4.03E-11	0.00E+00	1.14E-07	2.98E-09	1.26E-08	6.00E-12	0.00E+00	1.55E-08	1.83E-09	5.77E-09	1.39E-12	0.00E+00	7.60E-09
565	420295.99	3734219.59	2.19E-08	9.26E-08	4.06E-11	0.00E+00	1.15E-07	3.01E-09	1.27E-08	6.05E-12	0.00E+00	1.57E-08	1.84E-09	5.82E-09	1.40E-12	0.00E+00	7.67E-09
566	420300.4	3734210.85	2.21E-08	9.32E-08	4.09E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.09E-12	0.00E+00	1.58E-08	1.86E-09	5.86E-09	1.41E-12	0.00E+00	7.71E-09
567	420304.81	3734202.12	2.21E-08	9.35E-08	4.10E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.11E-12	0.00E+00	1.58E-08	1.86E-09	5.88E-09	1.42E-12	0.00E+00	7.74E-09
568	420309.22	3734193.38	2.22E-08	9.36E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.12E-12	0.00E+00	1.58E-08	1.86E-09	5.88E-09	1.42E-12	0.00E+00	7.75E-09
569	420313.63	3734184.64	2.21E-08	9.34E-08	4.10E-11	0.00E+00	1.16E-07	3.03E-09	1.28E-08	6.10E-12	0.00E+00	1.58E-08	1.86E-09	5.87E-09	1.42E-12	0.00E+00	7.73E-09
570	420318.04	3734175.9	2.20E-08	9.30E-08	4.08E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.08E-12	0.00E+00	1.57E-08	1.85E-09	5.84E-09	1.41E-12	0.00E+00	7.70E-09
571	420335.67	3734140.94	2.11E-08	8.90E-08	3.91E-11	0.00E+00	1.10E-07	2.89E-09	1.22E-08	5.82E-12	0.00E+00	1.51E-08	1.77E-09	5.59E-09	1.35E-12	0.00E+00	7.37E-09
572	420340.08	3734132.2	2.07E-08	8.75E-08	3.84E-11	0.00E+00	1.08E-07	2.84E-09	1.20E-08	5.72E-12	0.00E+00	1.48E-08	1.74E-09	5.50E-09	1.33E-12	0.00E+00	7.24E-09
573	420344.49	3734123.47	2.03E-08	8.58E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.17E-08	5.61E-12	0.00E+00	1.45E-08	1.71E-09	5.39E-09	1.30E-12	0.00E+00	7.11E-09
574	420348.9	3734114.73	1.99E-08	8.40E-08	3.69E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.49E-12	0.00E+00	1.42E-08	1.67E-09	5.28E-09	1.27E-12	0.00E+00	6.96E-09
575	420353.31	3734105.99	1.94E-08	8.21E-08	3.60E-11	0.00E+00	1.02E-07	2.66E-09	1.12E-08	5.36E-12	0.00E+00	1.39E-08	1.64E-09	5.16E-09	1.25E-12	0.00E+00	6.79E-09
576	420357.72	3734097.25	1.90E-08	8.00E-08	3.51E-11	0.00E+00	9.90E-08	2.60E-09	1.09E-08	5.23E-12	0.00E+00	1.35E-08	1.59E-09	5.03E-09	1.21E-12	0.00E+00	6.63E-09
577	420362.13	3734088.51	1.85E-08	7.80E-08	3.42E-11	0.00E+00	9.65E-08	2.53E-09	1.07E-08	5.10E-12	0.00E+00	1.32E-08	1.55E-09	4.90E-09	1.18E-12	0.00E+00	6.46E-09
578	420366.54	3734079.77	1.80E-08	7.58E-08	3.33E-11	0.00E+00	9.38E-08	2.46E-09	1.04E-08	4.96E-12	0.00E+00	1.28E-08	1.51E-09	4.77E-09	1.15E-12	0.00E+00	6.28E-09
579	420388.59	3734036.08	1.53E-08	6.47E-08	2.84E-11	0.00E+00	8.00E-08	2.10E-09	8.84E-09	4.23E-12	0.00E+00	1.09E-08	1.29E-09	4.06E-09	9.81E-13	0.00E+00	5.35E-09
580	420393	3734027.34	1.48E-08	6.25E-08	2.74E-11	0.00E+00	7.73E-08	2.03E-09	8.55E-09	4.08E-12	0.00E+00	1.06E-08	1.25E-09	3.93E-09	9.48E-13	0.00E+00	5.17E-09
581	420397.41	3734018.6	1.43E-08	6.04E-08	2.65E-11	0.00E+00	7.47E-08	1.96E-09	8.26E-09	3.95E-12	0.00E+00	1.02E-08	1.20E-09	3.79E-09	9.16E-13	0.00E+00	5.00E-09
582	420401.82	3734009.86	1.38E-08	5.83E-08	2.56E-11	0.00E+00	7.22E-08	1.89E-09	7.97E-09	3.81E-12	0.00E+00	9.87E-09	1.16E-09	3.66E-09	8.85E-13	0.00E+00	4.83E-09
583	420406.23	3734001.12	1.33E-08	5.63E-08	2.47E-11	0.00E+00	6.97E-08	1.83E-09	7.70E-09	3.68E-12	0.00E+00	9.53E-09	1.12E-09	3.54E-09	8.54E-13	0.00E+00	4.66E-09
584	420410.64	3733992.38	1.29E-08	5.44E-08	2.39E-11	0.00E+00	6.73E-08	1.77E-09	7.43E-09	3.55E-12	0.00E+00	9.20E-09	1.08E-09	3.42E-09	8.25E-13	0.00E+00	4.50E-09
585	420415.04	3733983.64	1.24E-08	5.25E-08	2.30E-11	0.00E+00	6.50E-08	1.71E-09	7.18E-09	3.43E-12	0.00E+00	8.89E-09	1.05E-09	3.30E-09	7.97E-13	0.00E+00	4.35E-09
586	420419.45	3733974.91	1.20E-08	5.07E-08	2.23E-11	0.00E+00	6.28E-08	1.65E-09	6.94E-09	3.32E-12	0.00E+00	8.59E-09	1.01E-09	3.19E-09	7.70E-13	0.00E+00	4.20E-09
587	420423.86	3733966.17	1.16E-08	4.90E-08	2.15E-11	0.00E+00	6.07E-08	1.59E-09	6.71E-09	3.21E-12	0.00E+00	8.30E-09	9.77E-10	3.08E-09	7.44E-13	0.00E+00	4.06E-09
588	420428.27	3733957.43	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.87E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.03E-09	9.45E-10	2.98E-09	7.19E-13	0.00E+00	3.93E-09
589	420455.55	3733920.75	9.83E-09	4.15E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.71E-12	0.00E+00	7.03E-09	8.27E-10	2.61E-09	6.30E-13	0.00E+00	3.44E-09
590	420465.18	3733919.03	9.81E-09	4.14E-08	1.82E-11	0.00E+00	5.12E-08	1.34E-09	5.66E-09	2.71E-12	0.00E+00	7.01E-09	8.25E-10	2.60E-09	6.28E-13	0.00E+00	3.43E-09
591	420474.82	3733917.3	9.79E-09	4.13E-08	1.81E-11	0.00E+00	5.11E-08	1.34E-09	5.65E-09	2.70E-12	0.00E+00	7.00E-09	8.23E-10	2.60E-09	6.27E-13	0.00E+00	3.42E-09
592	420484.45	3733915.58	9.77E-09	4.13E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.64E-09	2.70E-12	0.00E+00	6.98E-09	8.22E-10	2.59E-09	6.26E-13	0.00E+00	3.42E-09
593	420494.09	3733913.86	9.76E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.21E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
594	420503.72	3733912.13	9.75E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.21E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
595	420513.36	3733910.41	9.75E-09	4.12E-08	1.81E-11	0.00E+00	5.09E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.20E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
596	420522.99	3733908.68	9.75E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.21E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
597	420532.63	3733906.96	9.76E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.64E-09	2.69E-12	0.00E+00	6.98E-09	8.21E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
598	420542.26	3733905.24	9.78E-09	4.13E-08	1.81E-11	0.00E+00	5.11E-08	1.34E-09	5.65E-09	2.70E-12	0.00E+00	6.99E-09	8.23E-10	2.59E-09	6.26E-13	0.00E+00	3.42E-09
599	420551.9	3733903.51	9.79E-09	4.14E-08	1.81E-11	0.00E+00	5.12E-08	1.34E-09	5.66E-09	2.70E-12	0.00E+00	7.00E-09	8.24E-10	2.60E-09	6.27E-13	0.00E+00	3.42E-09
600	420561.54	3733901.79	9.82E-09	4.15E-08	1.82E-11	0.00E+00	5.13E-08	1.35E-09	5.67E-09	2.71E-12	0.00E+00	7.02E-09	8.26E-10	2.61E-09	6.29E-13	0.00E+00	3.43E-09
601	420571.17	3733900.07	9.85E-09	4.16E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.69E-09	2.72E-12	0.00E+00	7.04E-09	8.28E-10	2.61E-09	6.31E-13	0.00E+00	3.44E-09
602	420580.81	3733898.34	9.88E-09	4.17E-08	1.83E-11	0.00E+00	5.16E-08	1.35E-09	5.70E-09	2.73E-12	0.00E+00	7.06E-09	8.31E-10	2.62E-09	6.33E-13	0.00E+00	3.45E-09
603	420590.44	3733896.62	9.91E-09	4.19E-08	1.84E-11	0.00E+00	5.18E-08	1.36E-09	5.72E-09	2.74E-12	0.00E+00	7.08E-09	8.34E-10	2.63E-09	6.35E-13	0.00E+00	3.46E-09
604	420600.08	3733894.9	9.95E-09	4.20E-08	1.84E-11	0.00E+00	5.20E-08	1.36E-09	5.74E-09	2.74E-12	0.00E+00	7.11E-09	8.37E-10	2.64E-09	6.37E-13	0.00E+00	3.48E-09
605	420638.62	3733888	1.01E-08	4.27E-08	1.87E-11	0.00E+00	5.28E-08	1.39E-09	5.83E-09	2.79E-12	0.00E+00	7.22E-09	8.50E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
606	420648.25	3733886.28	1.01E-08	4.28E-08	1.88E-11	0.00E+00	5.30E-08	1.39E-09	5.86E-09	2.80E-12	0.00E+00	7.25E-09	8.53E-10	2.69E-09	6.50E-13	0.00E+00	3.55E-09
607	420657.89	3733884.56	1.02E-08	4.30E-08	1.89E-11	0.00E+00	5.32E-08	1.40E-09	5.88E-09	2.81E-12	0.00E+00	7.28E-09	8.56E-10	2.70E-09	6.52E-13	0.00E+00	3.56E-09
608	420667.52	3733882.83	1.02E-08	4.31E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.30E-09	8.60E-10	2.71E-09	6.54E-13	0.00E+00	3.57E-09
609	420677.16	3733881.11	1.03E-08	4.33E-08	1.90E-11	0.00E+00	5.36E-08	1.41E-09	5.92E-09	2.83E-12	0.00E+00	7.33E-09	8.62E-10	2.72E-09	6.57E-13	0.00E+00	3.58E-09
610	420686.8	3733879.39	1.03E-08	4.34E-08	1.91E-11	0.00E+00	5.37E-08	1.41E-09	5.94E-09	2.84E-12	0.00E+00	7.35E-09	8.65E-10	2.73E-09	6.59E-13	0.00E+00	3.59E-09
611	420696.43	3733877.66	1.03E-08	4.35E-08	1.91E-11	0.00E+00	5.39E-08	1.41E-09	5.95E-09	2.84E-12	0.00E+00	7.37E-09	8.67E-10	2.74E-09	6.60E-13	0.00E+00	3.60E-09
612	420706.07	3733875.94	1.03E-08	4.36E-08	1.91E-11	0.00E+00	5.40E-08	1.42E-09	5.97E-09	2.85E-12	0.00E+00	7.39E-09	8.69E-10	2.74E-09	6.62E-13	0.00E+00	3.61E-09
613	420715.7	3733874.22	1.04E-08	4.37E-08	1.92E-11	0.00E+00	5.41E-08	1.42E-09	5.98E-09	2.86E-12	0.00E+00	7.40E-09	8.71E-10	2.75E-09	6.63E-13	0.00E+00	3.62E-09
614	420725.34	3733872.49	1.04E-08	4.38E-08	1.92E-11	0.00E+00	5.41E-08	1.42E-09	5.98E-09	2.86E-12	0.00E+00	7.41E-09	8.72E-10	2.75E-09	6.64E-13	0.00E+00	3.62E-09
615	420734.97	3733870.77	1.04E-08	4.38E-08	1.92E-11	0.00E+00	5.42E-08	1.42E-09	5.99E-09	2.86E-12	0.00E+00	7.42E-09	8.73E-10	2.75E-09	6.65E-13	0.00E+00	3.63E-09
616	420744.61	3733869.05	1.04E-08	4.38E-08	1.92E-11	0.00E+00	5.42E-08	1.42E-09	5.99E-09	2.86E-12	0.00E+00	7.42E-09	8.73E-10	2.76E-09	6.65E-13	0.00E+00	3.63E-09
617	420754.24	3733867.32	1.04E-08	4.39E-08	1.92E-11	0.00E+00	5.43E-08	1.42E-09	6.00E-09	2.87E-12	0.00E+00	7.42E-09	8.74E-10	2.76E-09	6.65E-13	0.00E+00	3.63E-09
618	420763.88	3733865.6	1.04E-08	4.39E-08	1.92E-11	0.00E+00	5.43E-08	1.42E-09	6.00E-09	2.87E-12	0.00E+00	7.42E-09	8.74E-10	2.76E-09	6.65E-13	0.00E+00	3.63E-09
619	420773.51	3733863.88	1.04E-08	4.38E-08	1.92E-11	0.00E+00	5.42E-08	1.42E-09	5.99E-09	2.86E-12	0.00E+00	7.42E-09	8.73E-10	2.75E-09	6.65E-13	0.00E+00	3.63E-09
620	420783.15	3733862.15	1.04E-08	4.38E-08	1.92E-11	0.00E+00	5.42E-08	1.42E-09	5.99E-09	2.86E-12	0.00E+00	7.41E-09	8.72E-10	2.75E-09	6.64E-13	0.00E+00	3.62E-09
621	420792.78	3733860.43	1.04E-08	4.37E-08	1.92E-11	0.00E+00	5.41E-08	1.42E-09	5.98E-09	2.86E-12	0.00E+00	7.40E-09	8.71E-10	2.75E-09	6.63E-13	0.00E+00	3.62E-09
622	420802.42	3733858.71	1.03E-08	4.36E-08	1.92E-11	0.00E+00	5.40E-08	1.42E-09	5.97E-09	2.85E-12	0.00E+00	7.39E-09	8.70E-10	2.74E-09	6.62E-13	0.00E+00	3.61E-09
623	420812.06	3733856.98	1.03E-08	4.35E-08	1.91E-11	0.00E+00	5.39E-08	1.41E-09	5.95E-09	2.84E-12	0.00E+00	7.37E-09	8.67E-10	2.74E-09	6.60E-13	0.00E+00	3.60E-09
624	420821.69	3733855.26	1.03E-08	4.34E-08	1.91E-11	0.00E+00	5.37E-08	1.41E-09	5.94E-09	2.84E-12	0.00E+00	7.35E-09	8.65E-10	2.73E-09	6.59E-13	0.00E+00	3.59E-09
625	420831.33	3733853.54	1.02E-08	4.33E-08	1.90E-11	0.00E+00	5.35E-08	1.40E-09	5.92E-09	2.83E-12	0.00E+00	7.32E-09	8.62E-10	2.72E-09	6.57E-13	0.00E+00	3.58E-09
626	420840.96	3733851.81	1.02E-08	4.31E-08	1.89E-11	0.00E+00	5.33E-08	1.40E-09	5.89E-09	2.82E-12	0.00E+00	7.30E-09	8.59E-10	2.71E-09	6.54E-13	0.00E+00	3.57E-09
627	420260.71	3734289.5	1.92E-08	8.12E-08	3.56E-11	0.00E+00	1.00E-07	2.64E-09	1.11E-08	5.31E-12	0.00E+00	1.37E-08	1.62E-09	5.10E-09	1.23E-12	0.00E+00	6.72E-09
628	420260.67	3734299.36	1.92E-08	8.11E-08	3.56E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.30E-12	0.00E+00	1.37E-08	1.62E-09	5.09E-09	1.23E-12	0.00E+00	6.71E-09
629	420260.63	3734309.22	1.91E-08	8.08E-08	3.55E-11	0.00E+00	1.00E-07	2.62E-09	1.11E-08	5.28E-12	0.00E+00	1.37E-08	1.61E-09	5.08E-09	1.23E-12	0.00E+00	6.69E-09
630	420260.59	3734319.08	1.91E-08	8.05E-08	3.53E-11	0.00E+00	9.96E-08	2.61E-09	1.10E-08	5.26E-12	0.00E+00	1.36E-08	1.60E-09	5.06E-09	1.22E-12	0.00E+00	6.66E-09
631	420260.55	3734328.94	1.90E-08	8.01E-08	3.52E-11	0.00E+00	9.91E-08	2.60E-09	1.10E-08	5.24E-12	0.00E+00	1.36E-08	1.60E-09	5.04E-09	1.22E-12	0.00E+00	6.63E-09
632	420260.51	3734338.8	1.89E-08	7.97E-08	3.50E-11	0.00E+00	9.86E-08	2.59E-09	1.09E-08	5.21E-12	0.00E+00	1.35E-08	1.59E-09	5.01E-09	1.21E-12	0.00E+00	6.60E-09
633	420260.47	3734348.66	1.88E-08	7.93E-08	3.48E-11	0.00E+00	9.81E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
634	420260.39	3734368.38	1.86E-08	7.83E-08	3.44E-11	0.00E+00	9.69E-08	2.54E-09	1.07E-08	5.12E-12	0.00E+00	1.33E-08	1.56E-09	4.92E-09	1.19E-12	0.00E+00	6.49E-09
635	420238.22	3734254.65	1.73E-08	7.30E-08	3.20E-11	0.00E+00	9.03E-08	2.37E-09	9.98E-09	4.77E-12	0.00E+00	1.24E-08	1.45E-09	4.59E-09	1.11E-12	0.00E+00	6.04E-09
636	420242.59	3734245.98	1.76E-08	7.43E-08	3.26E-11	0.00E+00	9.20E-08	2.41E-09	1.02E-08	4.86E-12	0.00E+00	1.26E-08	1.48E-09	4.67E-09	1.13E-12	0.00E+00	6.15E-09
637	420246.97	3734237.31	1.79E-08	7.56E-08	3.32E-11	0.00E+00	9.35E-08	2.45E-09	1.03E-08	4.94E-12	0.00E+00	1.28E-08	1.51E-09	4.75E-09	1.15E-12	0.00E+00	6.26E-09
638	420264.48	3734202.61	1.88E-08	7.93E-08	3.48E-11	0.00E+00	9.82E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.34E-08	1.58E-09	4.99E-09	1.20E-12	0.00E+00	6.57E-09
639	420268.85	3734193.94	1.89E-08	7.99E-08	3.51E-11	0.00E+00	9.88E-08	2.59E-09	1.09E-08	5.22E-12	0.00E+00	1.35E-08	1.59E-09	5.02E-09	1.21E-12	0.00E+00	6.61E-09
640	420273.23	3734185.27	1.90E-08	8.02E-08	3.52E-11	0.00E+00	9.93E-08	2.61E-09	1.10E-08	5.24E-12	0.00E+00	1.36E-08	1.60E-09	5.04E-09	1.22E-12	0.00E+00	6.64E-09

641	420277.6	3734176.6	1.90E-08	8.04E-08	3.53E-11	0.00E+00	9.95E-08	2.61E-09	1.10E-08	5.26E-12	0.00E+00	1.36E-08	1.60E-09	5.05E-09	1.22E-12	0.00E+00	6.66E-09
642	420295.11	3734141.9	1.88E-08	7.92E-08	3.48E-11	0.00E+00	9.80E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
643	420299.48	3734133.23	1.86E-08	7.84E-08	3.44E-11	0.00E+00	9.70E-08	2.55E-09	1.07E-08	5.13E-12	0.00E+00	1.33E-08	1.56E-09	4.93E-09	1.19E-12	0.00E+00	6.49E-09
644	420303.86	3734124.56	1.84E-08	7.75E-08	3.40E-11	0.00E+00	9.59E-08	2.52E-09	1.06E-08	5.07E-12	0.00E+00	1.31E-08	1.55E-09	4.87E-09	1.18E-12	0.00E+00	6.42E-09
645	420308.24	3734115.89	1.81E-08	7.65E-08	3.36E-11	0.00E+00	9.47E-08	2.48E-09	1.05E-08	5.00E-12	0.00E+00	1.30E-08	1.52E-09	4.81E-09	1.16E-12	0.00E+00	6.33E-09
646	420312.61	3734107.21	1.78E-08	7.53E-08	3.31E-11	0.00E+00	9.32E-08	2.45E-09	1.03E-08	4.92E-12	0.00E+00	1.28E-08	1.50E-09	4.73E-09	1.14E-12	0.00E+00	6.24E-09
647	420316.99	3734098.54	1.75E-08	7.40E-08	3.25E-11	0.00E+00	9.16E-08	2.40E-09	1.01E-08	4.84E-12	0.00E+00	1.25E-08	1.47E-09	4.65E-09	1.12E-12	0.00E+00	6.13E-09
648	420321.36	3734089.87	1.72E-08	7.26E-08	3.19E-11	0.00E+00	8.99E-08	2.36E-09	9.93E-09	4.75E-12	0.00E+00	1.23E-08	1.45E-09	4.57E-09	1.10E-12	0.00E+00	6.01E-09
649	420325.74	3734081.2	1.69E-08	7.12E-08	3.12E-11	0.00E+00	8.81E-08	2.31E-09	9.73E-09	4.65E-12	0.00E+00	1.20E-08	1.42E-09	4.47E-09	1.08E-12	0.00E+00	5.89E-09
650	420330.12	3734072.52	1.65E-08	6.96E-08	3.05E-11	0.00E+00	8.61E-08	2.26E-09	9.52E-09	4.55E-12	0.00E+00	1.18E-08	1.39E-09	4.37E-09	1.06E-12	0.00E+00	5.76E-09
651	420334.49	3734063.85	1.61E-08	6.79E-08	2.98E-11	0.00E+00	8.40E-08	2.20E-09	9.29E-09	4.44E-12	0.00E+00	1.15E-08	1.35E-09	4.27E-09	1.03E-12	0.00E+00	5.62E-09
652	420338.87	3734055.18	1.57E-08	6.62E-08	2.90E-11	0.00E+00	8.19E-08	2.15E-09	9.05E-09	4.33E-12	0.00E+00	1.12E-08	1.32E-09	4.16E-09	1.00E-12	0.00E+00	5.48E-09
653	420347.62	3734037.83	1.48E-08	6.26E-08	2.75E-11	0.00E+00	7.75E-08	2.03E-09	8.57E-09	4.09E-12	0.00E+00	1.06E-08	1.25E-09	3.94E-09	9.50E-13	0.00E+00	5.19E-09
654	420352	3734029.16	1.44E-08	6.08E-08	2.67E-11	0.00E+00	7.53E-08	1.97E-09	8.32E-09	3.98E-12	0.00E+00	1.03E-08	1.21E-09	3.82E-09	9.23E-13	0.00E+00	5.04E-09
655	420356.37	3734020.49	1.40E-08	5.90E-08	2.59E-11	0.00E+00	7.30E-08	1.92E-09	8.07E-09	3.86E-12	0.00E+00	9.99E-09	1.18E-09	3.71E-09	8.95E-13	0.00E+00	4.89E-09
656	420360.75	3734011.81	1.35E-08	5.72E-08	2.51E-11	0.00E+00	7.08E-08	1.86E-09	7.82E-09	3.74E-12	0.00E+00	9.68E-09	1.14E-09	3.60E-09	8.68E-13	0.00E+00	4.74E-09
657	420365.13	3734003.14	1.31E-08	5.54E-08	2.43E-11	0.00E+00	6.86E-08	1.80E-09	7.58E-09	3.62E-12	0.00E+00	9.38E-09	1.10E-09	3.48E-09	8.41E-13	0.00E+00	4.59E-09
658	420387.01	3733959.78	1.12E-08	4.72E-08	2.07E-11	0.00E+00	5.84E-08	1.53E-09	6.45E-09	3.08E-12	0.00E+00	7.99E-09	9.40E-10	2.96E-09	7.16E-13	0.00E+00	3.91E-09
659	420391.38	3733951.1	1.08E-08	4.57E-08	2.00E-11	0.00E+00	5.65E-08	1.48E-09	6.25E-09	2.99E-12	0.00E+00	7.73E-09	9.10E-10	2.87E-09	6.93E-13	0.00E+00	3.78E-09
660	420404.51	3733925.09	9.84E-09	4.15E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.71E-12	0.00E+00	7.03E-09	8.27E-10	2.61E-09	6.30E-13	0.00E+00	3.44E-09
661	420408.89	3733916.41	9.54E-09	4.03E-08	1.77E-11	0.00E+00	4.98E-08	1.31E-09	5.51E-09	2.63E-12	0.00E+00	6.82E-09	8.02E-10	2.53E-09	6.11E-13	0.00E+00	3.33E-09
662	420413.26	3733907.74	9.25E-09	3.91E-08	1.71E-11	0.00E+00	4.83E-08	1.27E-09	5.34E-09	2.55E-12	0.00E+00	6.61E-09	7.78E-10	2.46E-09	5.93E-13	0.00E+00	3.23E-09
663	420417.64	3733899.07	8.98E-09	3.79E-08	1.66E-11	0.00E+00	4.69E-08	1.23E-09	5.19E-09	2.48E-12	0.00E+00	6.42E-09	7.56E-10	2.38E-09	5.75E-13	0.00E+00	3.14E-09
664	420431.58	3733888.68	8.69E-09	3.67E-08	1.61E-11	0.00E+00	4.54E-08	1.19E-09	5.02E-09	2.40E-12	0.00E+00	6.21E-09	7.31E-10	2.31E-09	5.57E-13	0.00E+00	3.04E-09
665	420441.14	3733886.97	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.00E-09	2.39E-12	0.00E+00	6.20E-09	7.29E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09
666	420450.7	3733885.26	8.64E-09	3.65E-08	1.60E-11	0.00E+00	4.52E-08	1.18E-09	4.99E-09	2.39E-12	0.00E+00	6.18E-09	7.27E-10	2.29E-09	5.54E-13	0.00E+00	3.02E-09
667	420460.27	3733883.55	8.63E-09	3.64E-08	1.60E-11	0.00E+00	4.51E-08	1.18E-09	4.98E-09	2.38E-12	0.00E+00	6.17E-09	7.26E-10	2.29E-09	5.53E-13	0.00E+00	3.02E-09
668	420469.83	3733881.84	8.61E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
669	420479.39	3733880.13	8.60E-09	3.63E-08	1.59E-11	0.00E+00	4.49E-08	1.18E-09	4.97E-09	2.37E-12	0.00E+00	6.15E-09	7.23E-10	2.28E-09	5.51E-13	0.00E+00	3.01E-09
670	420488.95	3733878.42	8.60E-09	3.63E-08	1.59E-11	0.00E+00	4.49E-08	1.18E-09	4.96E-09	2.37E-12	0.00E+00	6.14E-09	7.23E-10	2.28E-09	5.51E-13	0.00E+00	3.00E-09
671	420498.52	3733876.71	8.60E-09	3.63E-08	1.59E-11	0.00E+00	4.49E-08	1.18E-09	4.96E-09	2.37E-12	0.00E+00	6.14E-09	7.23E-10	2.28E-09	5.51E-13	0.00E+00	3.00E-09
672	420508.08	3733875	8.60E-09	3.63E-08	1.59E-11	0.00E+00	4.49E-08	1.18E-09	4.97E-09	2.37E-12	0.00E+00	6.15E-09	7.23E-10	2.28E-09	5.51E-13	0.00E+00	3.01E-09
673	420517.64	3733873.29	8.61E-09	3.63E-08	1.59E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.37E-12	0.00E+00	6.15E-09	7.24E-10	2.28E-09	5.51E-13	0.00E+00	3.01E-09
674	420527.2	3733871.58	8.62E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
675	420536.77	3733869.87	8.63E-09	3.64E-08	1.60E-11	0.00E+00	4.51E-08	1.18E-09	4.98E-09	2.38E-12	0.00E+00	6.17E-09	7.26E-10	2.29E-09	5.53E-13	0.00E+00	3.02E-09
676	420546.33	3733868.16	8.65E-09	3.65E-08	1.60E-11	0.00E+00	4.52E-08	1.19E-09	4.99E-09	2.39E-12	0.00E+00	6.18E-09	7.27E-10	2.29E-09	5.54E-13	0.00E+00	3.02E-09
677	420555.89	3733866.45	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.00E-09	2.39E-12	0.00E+00	6.20E-09	7.29E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09
678	420565.45	3733864.74	8.69E-09	3.67E-08	1.61E-11	0.00E+00	4.54E-08	1.19E-09	5.02E-09	2.40E-12	0.00E+00	6.21E-09	7.31E-10	2.31E-09	5.57E-13	0.00E+00	3.04E-09
679	420575.02	3733863.03	8.72E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.03E-09	2.41E-12	0.00E+00	6.23E-09	7.34E-10	2.31E-09	5.59E-13	0.00E+00	3.05E-09
680	420584.58	3733861.32	8.75E-09	3.69E-08	1.62E-11	0.00E+00	4.57E-08	1.20E-09	5.05E-09	2.41E-12	0.00E+00	6.25E-09	7.36E-10	2.32E-09	5.60E-13	0.00E+00	3.06E-09
681	420594.14	3733859.61	8.78E-09	3.71E-08	1.63E-11	0.00E+00	4.59E-08	1.20E-09	5.07E-09	2.42E-12	0.00E+00	6.27E-09	7.38E-10	2.33E-09	5.62E-13	0.00E+00	3.07E-09
682	420603.7	3733857.9	8.81E-09	3.72E-08	1.63E-11	0.00E+00	4.60E-08	1.21E-09	5.09E-09	2.43E-12	0.00E+00	6.30E-09	7.41E-10	2.34E-09	5.64E-13	0.00E+00	3.08E-09
683	420747.14	3733832.24	9.19E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.73E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
684	420756.7	3733830.53	9.20E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.74E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
685	420766.27	3733828.82	9.20E-09	3.88E-08	1.70E-11	0.00E+00	4.81E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.58E-09	7.74E-10	2.44E-09	5.89E-13	0.00E+00	3.22E-09
686	420775.83	3733827.11	9.20E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.74E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
687	420785.39	3733825.4	9.19E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.73E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
688	420794.95	3733823.69	9.18E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.30E-09	2.53E-12	0.00E+00	6.56E-09	7.72E-10	2.44E-09	5.88E-13	0.00E+00	3.21E-09
689	420804.52	3733821.98	9.17E-09	3.87E-08	1.70E-11	0.00E+00	4.79E-08	1.26E-09	5.29E-09	2.53E-12	0.00E+00	6.55E-09	7.71E-10	2.43E-09	5.87E-13	0.00E+00	3.20E-09
690	420814.08	3733820.27	9.15E-09	3.86E-08	1.70E-11	0.00E+00	4.78E-08	1.25E-09	5.28E-09	2.52E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.86E-13	0.00E+00	3.20E-09
691	420823.64	3733818.56	9.12E-09	3.85E-08	1.69E-11	0.00E+00	4.77E-08	1.25E-09	5.27E-09	2.52E-12	0.00E+00	6.52E-09	7.68E-10	2.42E-09	5.85E-13	0.00E+00	3.19E-09
692	420833.2	3733816.85	9.10E-09	3.84E-08	1.69E-11	0.00E+00	4.75E-08	1.25E-09	5.25E-09	2.51E-12	0.00E+00	6.50E-09	7.65E-10	2.41E-09	5.83E-13	0.00E+00	3.18E-09
693	420842.77	3733815.14	9.07E-09	3.83E-08	1.68E-11	0.00E+00	4.74E-08	1.24E-09	5.24E-09	2.50E-12	0.00E+00	6.48E-09	7.63E-10	2.41E-09	5.81E-13	0.00E+00	3.17E-09
694	420852.33	3733813.43	9.04E-09	3.82E-08	1.67E-11	0.00E+00	4.72E-08	1.24E-09	5.22E-09	2.49E-12	0.00E+00	6.46E-09	7.60E-10	2.40E-09	5.79E-13	0.00E+00	3.16E-09
695	420220.71	3734289.34	1.58E-08	6.69E-08	2.94E-11	0.00E+00	8.28E-08	2.17E-09	9.15E-09	4.37E-12	0.00E+00	1.13E-08	1.33E-09	4.20E-09	1.02E-12	0.00E+00	5.54E-09
696	420220.67	3734299.2	1.58E-08	6.66E-08	2.92E-11	0.00E+00	8.25E-08	2.16E-09	9.11E-09	4.36E-12	0.00E+00	1.13E-08	1.33E-09	4.19E-09	1.01E-12	0.00E+00	5.52E-09
697	420220.63	3734309.06	1.57E-08	6.63E-08	2.91E-11	0.00E+00	8.21E-08	2.15E-09	9.07E-09	4.34E-12	0.00E+00	1.12E-08	1.32E-09	4.17E-09	1.01E-12	0.00E+00	5.49E-09
698	420220.59	3734318.92	1.56E-08	6.60E-08	2.90E-11	0.00E+00	8.17E-08	2.14E-09	9.03E-09	4.31E-12	0.00E+00	1.12E-08	1.32E-09	4.15E-09	1.00E-12	0.00E+00	5.46E-09
699	420220.55	3734328.78	1.55E-08	6.57E-08	2.88E-11	0.00E+00	8.12E-08	2.13E-09	8.98E-09	4.29E-12	0.00E+00	1.11E-08	1.31E-09	4.13E-09	9.96E-13	0.00E+00	5.44E-09
700	420220.51	3734338.64	1.55E-08	6.53E-08	2.86E-11	0.00E+00	8.08E-08	2.12E-09	8.93E-09	4.27E-12	0.00E+00	1.10E-08	1.30E-09	4.10E-09	9.90E-13	0.00E+00	5.40E-09
701	420220.47	3734348.5	1.54E-08	6.49E-08	2.85E-11	0.00E+00	8.03E-08	2.11E-09	8.87E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.84E-13	0.00E+00	5.37E-09
702	420220.39	3734368.22	1.52E-08	6.41E-08	2.81E-11	0.00E+00	7.93E-08	2.08E-09	8.76E-09	4.19E-12	0.00E+00	1.08E-08	1.28E-09	4.03E-09	9.72E-13	0.00E+00	5.30E-09
703	420198.46	3734254.01	1.45E-08	6.11E-08	2.68E-11	0.00E+00	7.55E-08	1.98E-09	8.35E-09	3.99E-12	0.00E+00	1.03E-08	1.22E-09	3.84E-09	9.26E-13	0.00E+00	5.05E-09
704	420202.9	3734245.21	1.48E-08	6.23E-08	2.73E-11	0.00E+00	7.71E-08	2.02E-09	8.52E-09	4.07E-12	0.00E+00	1.05E-08	1.24E-09	3.92E-09	9.45E-13	0.00E+00	5.16E-09
705	420207.34	3734236.42	1.50E-08	6.35E-08	2.79E-11	0.00E+00	7.86E-08	2.06E-09	8.68E-09	4.15E-12	0.00E+00	1.07E-08	1.27E-09	3.99E-09	9.63E-13	0.00E+00	5.26E-09
706	420211.77	3734227.63	1.53E-08	6.46E-08	2.84E-11	0.00E+00	8.00E-08	2.10E-09	8.84E-09	4.22E-12	0.00E+00	1.09E-08	1.29E-09	4.06E-09	9.80E-13	0.00E+00	5.35E-09
707	420216.21	3734218.83	1.56E-08	6.57E-08	2.88E-11	0.00E+00	8.13E-08	2.13E-09	8.98E-09	4.29E-12	0.00E+00	1.11E-08	1.31E-09	4.13E-09	9.97E-13	0.00E+00	5.44E-09
708	420220.65	3734210.04	1.58E-08	6.66E-08	2.92E-11	0.00E+00	8.25E-08	2.16E-09	9.11E-09	4.36E-12	0.00E+00	1.13E-08	1.33E-09	4.19E-09	1.01E-12	0.00E+00	5.52E-09
709	420225.08	3734201.25	1.60E-08	6.75E-08	2.96E-11	0.00E+00	8.35E-08	2.19E-09	9.23E-09	4.41E-12	0.00E+00	1.14E-08	1.34E-09	4.24E-09	1.02E-12	0.00E+00	5.59E-09
710	420229.52	3734192.45	1.62E-08	6.82E-08	2.99E-11	0.00E+00	8.44E-08	2.22E-09	9.33E-09	4.46E-12	0.00E+00	1.16E-08	1.36E-09	4.29E-09	1.04E-12	0.00E+00	5.65E-09
711	420233.96	3734183.66	1.63E-08	6.89E-08	3.02E-11	0.00E+00	8.52E-08	2.24E-09	9.42E-09	4.50E-12	0.00E+00	1.17E-08	1.37E-09	4.33E-09	1.04E-12	0.00E+00	5.70E-09
712	420238.39	3734174.87	1.64E-08	6.93E-08	3.04E-11	0.00E+00	8.58E-08	2.25E-09	9.48E-09	4.53E-12	0.00E+00	1.17E-08	1.38E-09	4.36E-09	1.05E-12	0.00E+00	5.74E-09
713	420265.01	3734122.11	1.64E-08	6.92E-08	3.04E-11	0.00E+00	8.56E-08	2.25E-09	9.46E-09	4.52E-12	0.00E+00	1.17E-08	1.38E-09	4.35E-09	1.05E-12	0.00E+00	5.73E-09
714	420269.45	3734113.32	1.63E-08	6.86E-08	3.01E-11	0.00E+00	8.49E-08	2.23E-09	9.38E-09	4.48E-12	0.00E+00	1.16E-08	1.37E-09	4.31E-09	1.04E-12	0.00E+00	5.68E-09
715	420273.89	3734104.52	1.61E-08	6.79E-08	2.98E-11	0.00E+00	8.41E-08	2.21E-09	9.29E-09	4.44E-12	0.00E+00	1.15E-08	1.35E-09	4.27E-09	1.03E-12	0.00E+00	5.62E-09
716	420278.32	3734095.73	1.59E-08	6.71E-08	2.95E-11	0.00E+00	8.30E-08	2.18E-09	9.18E-09	4.39E-12	0.00E+00	1.14E-08	1.34E-09	4.22E-09	1.02E-12	0.00E+00	5.56E-09
717	420282.76	3734086.94	1.57E-08	6.62E-08	2.91E-11	0.00E+00	8.19E-08	2.15E-09	9.05E-09	4.33E-12	0.00E+00	1.12E-08	1.32E-09	4.16E-09	1.00E-12	0.00E+00	5.48E-09
718	420287.2	3734078.14	1.54E-08	6.52E-08	2.86E-11	0.00E+00	8.07E-08	2.12E-09	8.91E-09	4.26E-12	0.00E+00	1.10E-08	1.30E-09	4.10E-09	9.89E-13	0.00E+00	5.40E-09
719	420291.64	3734069.35	1.52E-08	6.41E-08	2.81E-11	0.00E+00	7.93E-08	2.08E-09	8.76E-09	4.19E-12	0.00E+00	1.08E-08	1.28E-09	4.03E-09	9.72E-13	0.00E+00	5.30E-09
720	420296.07	3734060.56	1.49E-08	6.29E-08	2.76E-11	0.00E+00	7.78E-08	2.04E-09	8.60E-09	4.11E-12	0.00E+00	1.06E-08	1.25E-09	3.95E-09	9.54E-13	0.00E+00	5.20E-09
721	420309.38	3734034.18	1.39E-08	5.89E-08	2.58E-11	0.00E+00	7.28E-08	1.91E-09	8.05E-09	3.85E-12	0.00E+00	9.96E-09	1.17E-09	3.70E-09	8.93E-13	0.00E+00	4.87E-09
722	420313.82	3734025.39	1.36E-08	5.74E-08	2.52E-11	0.00E+00	7.10E-08	1.86E-09	7.85E-09	3.75E-12	0.00E+00	9.72E-09	1.14E-09	3.61E-09	8.71E-13	0.00E+00	4.75E-09
723	420318.26	3734016.59	1.32E-08	5.59E-08	2.45E-11	0.00E+00	6.92E-08	1.82E-09	7.65E-09	3.66E-12	0.00E+00	9.47E-09	1.11E-09	3.52E-09	8.49E-13	0.00E+00	4.63E-09
724	420322.69	3734007.8	1.29E-08	5.44E-08	2.39E-11	0.00E+00	6.74E-08	1.77E-09	7.44E-09	3.56E-12	0.00E+00	9.22E-09	1.08E-09	3.42E-09	8.26E-13	0.00E+00	4.51E-09
725	420327.13	3733999.01	1.25E-08	5.29E-08	2.32E-11	0.00E+00	6.55E-08	1.72E-09	7.24E-09	3.46E-12	0.00E+00	8.96E-09	1.05E-09	3.33E-09	8.03E-13	0.00E+00	4.38E-09
726	420331.57	3733990.21	1.22E-08	5.14E-08	2.26E-11	0.00E+00	6.36E-08	1.67E-09	7.03E-09	3.36E-12	0.00E+00	8.71E-09	1.02E-09	3.23E-09	7.80E-13	0.00E+00	4.26E-09
727	420336	3733981.42	1.18E-08	4.99E-08	2.19E-11	0.00E+00	6.18E-08	1.62E-09	6.83E-09	3.26E-12	0.00E+00	8.45E-09	9.95E-10	3.14E-09	7.58E-13	0.00E+00	4.13E-09
728	420340.44	3733972.63	1.15E-08	4.85E-08	2.13E-11	0.00E+00	6.00E-08	1.57E-09	6.63E-09	3.17E-12	0.00E+00	8.21E-09	9.66E-10	3.05E-09	7.36E-13	0.00E+00	4.01E-09
729	420344.88	3733963.83	1.11E-08	4.70E-08	2.06E-11	0.00E+00	5.82E-08	1.53E-09	6.43E-09	3.07E-12	0.00E+00	7.96E-09	9.37E-10	2.96E-09	7.13E-13	0.00E+00	3.89E-09
730	420349.31	3733955.04	1.08E-08	4.56E-08	2.00E-11	0.00E+00	5.64E-08	1.48E-09	6.24E-09	2.98E-12	0.00E+00	7.72E-09	9.09E-10	2.87E-09	6.92E-13	0.00E+00	3.78E-09
731	420362.62	3733928.66	9.85E-09	4.16E-08	1.82E-11	0.00E+00	5.15E-08	1.35E-09	5.69E-09	2.72E-12	0.00E+00	7.04E-09	8.29E-10	2.61E-09	6.31E-13	0.00E+00	3.44E-09
732	420384.81	3733884.7	8.48E-09	3.58E-08	1.57E-11	0.00E+00	4.43E-08	1.16E-09	4.90E-09	2.34E-12	0.00E+00	6.06E-09	7.13E-10	2.25E-09	5.43E-13	0.00E+00	2.96E-09

733	420389.25	3733875.9	8.24E-09	3.48E-08	1.53E-11	0.00E+00	4.30E-08	1.13E-09	4.76E-09	2.27E-12	0.00E+00	5.89E-09	6.93E-10	2.19E-09	5.28E-13	0.00E+00	2.88E-09
734	420393.68	3733867.11	8.01E-09	3.38E-08	1.48E-11	0.00E+00	4.18E-08	1.10E-09	4.62E-09	2.21E-12	0.00E+00	5.72E-09	6.74E-10	2.13E-09	5.13E-13	0.00E+00	2.80E-09
735	420407.81	3733856.58	7.76E-09	3.28E-08	1.44E-11	0.00E+00	4.05E-08	1.06E-09	4.48E-09	2.14E-12	0.00E+00	5.55E-09	6.53E-10	2.06E-09	4.97E-13	0.00E+00	2.71E-09
736	420417.51	3733854.85	7.74E-09	3.27E-08	1.43E-11	0.00E+00	4.04E-08	1.06E-09	4.47E-09	2.14E-12	0.00E+00	5.53E-09	6.51E-10	2.05E-09	4.96E-13	0.00E+00	2.70E-09
737	420427.21	3733853.11	7.71E-09	3.26E-08	1.43E-11	0.00E+00	4.03E-08	1.06E-09	4.45E-09	2.13E-12	0.00E+00	5.51E-09	6.49E-10	2.05E-09	4.94E-13	0.00E+00	2.70E-09
738	420436.9	3733851.38	7.69E-09	3.25E-08	1.43E-11	0.00E+00	4.02E-08	1.05E-09	4.44E-09	2.12E-12	0.00E+00	5.50E-09	6.47E-10	2.04E-09	4.93E-13	0.00E+00	2.69E-09
739	420446.6	3733849.65	7.67E-09	3.24E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.49E-09	6.46E-10	2.04E-09	4.92E-13	0.00E+00	2.68E-09
740	420456.29	3733847.91	7.66E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.48E-09	6.45E-10	2.03E-09	4.91E-13	0.00E+00	2.68E-09
741	420465.99	3733846.18	7.65E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.47E-09	6.44E-10	2.03E-09	4.90E-13	0.00E+00	2.68E-09
742	420475.68	3733844.44	7.65E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.47E-09	6.43E-10	2.03E-09	4.90E-13	0.00E+00	2.67E-09
743	420485.38	3733842.71	7.65E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.47E-09	6.43E-10	2.03E-09	4.90E-13	0.00E+00	2.67E-09
744	420495.07	3733840.97	7.65E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.47E-09	6.44E-10	2.03E-09	4.90E-13	0.00E+00	2.67E-09
745	420504.77	3733839.24	7.65E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.47E-09	6.44E-10	2.03E-09	4.90E-13	0.00E+00	2.68E-09
746	420514.46	3733837.51	7.66E-09	3.24E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.48E-09	6.45E-10	2.03E-09	4.91E-13	0.00E+00	2.68E-09
747	420524.16	3733835.77	7.68E-09	3.24E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.49E-09	6.46E-10	2.04E-09	4.92E-13	0.00E+00	2.68E-09
748	420533.85	3733834.04	7.69E-09	3.25E-08	1.43E-11	0.00E+00	4.02E-08	1.05E-09	4.44E-09	2.12E-12	0.00E+00	5.50E-09	6.47E-10	2.04E-09	4.93E-13	0.00E+00	2.69E-09
749	420543.55	3733832.3	7.71E-09	3.26E-08	1.43E-11	0.00E+00	4.03E-08	1.06E-09	4.45E-09	2.13E-12	0.00E+00	5.51E-09	6.49E-10	2.05E-09	4.94E-13	0.00E+00	2.69E-09
750	420553.24	3733830.57	7.73E-09	3.26E-08	1.43E-11	0.00E+00	4.04E-08	1.06E-09	4.46E-09	2.13E-12	0.00E+00	5.52E-09	6.50E-10	2.05E-09	4.95E-13	0.00E+00	2.70E-09
751	420562.94	3733828.84	7.75E-09	3.27E-08	1.44E-11	0.00E+00	4.05E-08	1.06E-09	4.48E-09	2.14E-12	0.00E+00	5.54E-09	6.52E-10	2.06E-09	4.97E-13	0.00E+00	2.71E-09
752	420572.63	3733827.1	7.78E-09	3.28E-08	1.44E-11	0.00E+00	4.06E-08	1.07E-09	4.49E-09	2.15E-12	0.00E+00	5.56E-09	6.54E-10	2.06E-09	4.98E-13	0.00E+00	2.72E-09
753	420582.33	3733825.37	7.81E-09	3.30E-08	1.45E-11	0.00E+00	4.08E-08	1.07E-09	4.51E-09	2.15E-12	0.00E+00	5.58E-09	6.57E-10	2.07E-09	5.00E-13	0.00E+00	2.73E-09
754	420592.02	3733823.63	7.83E-09	3.31E-08	1.45E-11	0.00E+00	4.09E-08	1.07E-09	4.52E-09	2.16E-12	0.00E+00	5.60E-09	6.59E-10	2.08E-09	5.02E-13	0.00E+00	2.74E-09
755	420601.72	3733821.9	7.86E-09	3.32E-08	1.46E-11	0.00E+00	4.11E-08	1.08E-09	4.54E-09	2.17E-12	0.00E+00	5.62E-09	6.62E-10	2.09E-09	5.04E-13	0.00E+00	2.75E-09
756	420640.5	3733814.96	7.98E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.09E-09	4.61E-09	2.20E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.11E-13	0.00E+00	2.79E-09
757	420650.2	3733813.23	8.02E-09	3.38E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.63E-09	2.21E-12	0.00E+00	5.73E-09	6.74E-10	2.13E-09	5.13E-13	0.00E+00	2.80E-09
758	420659.89	3733811.49	8.04E-09	3.40E-08	1.49E-11	0.00E+00	4.20E-08	1.10E-09	4.64E-09	2.22E-12	0.00E+00	5.75E-09	6.77E-10	2.13E-09	5.15E-13	0.00E+00	2.81E-09
759	420669.59	3733809.76	8.07E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.66E-09	2.23E-12	0.00E+00	5.77E-09	6.79E-10	2.14E-09	5.17E-13	0.00E+00	2.82E-09
760	420679.28	3733808.03	8.10E-09	3.42E-08	1.50E-11	0.00E+00	4.23E-08	1.11E-09	4.68E-09	2.23E-12	0.00E+00	5.79E-09	6.81E-10	2.15E-09	5.19E-13	0.00E+00	2.83E-09
761	420688.98	3733806.29	8.12E-09	3.43E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.69E-09	2.24E-12	0.00E+00	5.80E-09	6.83E-10	2.16E-09	5.20E-13	0.00E+00	2.84E-09
762	420698.67	3733804.56	8.15E-09	3.44E-08	1.51E-11	0.00E+00	4.26E-08	1.12E-09	4.70E-09	2.25E-12	0.00E+00	5.82E-09	6.85E-10	2.16E-09	5.22E-13	0.00E+00	2.85E-09
763	420708.37	3733802.82	8.16E-09	3.45E-08	1.51E-11	0.00E+00	4.26E-08	1.12E-09	4.71E-09	2.25E-12	0.00E+00	5.83E-09	6.87E-10	2.17E-09	5.23E-13	0.00E+00	2.85E-09
764	420718.06	3733801.09	8.18E-09	3.45E-08	1.52E-11	0.00E+00	4.27E-08	1.12E-09	4.72E-09	2.26E-12	0.00E+00	5.85E-09	6.88E-10	2.17E-09	5.24E-13	0.00E+00	2.86E-09
765	420727.76	3733799.36	8.20E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.73E-09	2.26E-12	0.00E+00	5.86E-09	6.90E-10	2.18E-09	5.25E-13	0.00E+00	2.87E-09
766	420737.45	3733797.62	8.21E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.74E-09	2.26E-12	0.00E+00	5.87E-09	6.90E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
767	420747.15	3733795.89	8.22E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.74E-09	2.27E-12	0.00E+00	5.87E-09	6.91E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
768	420756.84	3733794.15	8.22E-09	3.47E-08	1.52E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.92E-10	2.18E-09	5.27E-13	0.00E+00	2.88E-09
769	420766.54	3733792.42	8.23E-09	3.47E-08	1.52E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.92E-10	2.18E-09	5.27E-13	0.00E+00	2.88E-09
770	420776.23	3733790.69	8.22E-09	3.47E-08	1.52E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.92E-10	2.18E-09	5.27E-13	0.00E+00	2.88E-09
771	420785.93	3733788.95	8.22E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.92E-10	2.18E-09	5.27E-13	0.00E+00	2.87E-09
772	420795.62	3733787.22	8.21E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.74E-09	2.27E-12	0.00E+00	5.87E-09	6.91E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
773	420805.32	3733785.48	8.20E-09	3.46E-08	1.52E-11	0.00E+00	4.29E-08	1.12E-09	4.74E-09	2.26E-12	0.00E+00	5.86E-09	6.90E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
774	420815.01	3733783.75	8.19E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.73E-09	2.26E-12	0.00E+00	5.85E-09	6.89E-10	2.17E-09	5.25E-13	0.00E+00	2.86E-09
775	420824.71	3733782.01	8.17E-09	3.45E-08	1.51E-11	0.00E+00	4.27E-08	1.12E-09	4.72E-09	2.26E-12	0.00E+00	5.84E-09	6.88E-10	2.17E-09	5.24E-13	0.00E+00	2.86E-09
776	420834.4	3733780.28	8.16E-09	3.44E-08	1.51E-11	0.00E+00	4.26E-08	1.12E-09	4.71E-09	2.25E-12	0.00E+00	5.83E-09	6.86E-10	2.16E-09	5.22E-13	0.00E+00	2.85E-09
777	420844.1	3733778.55	8.13E-09	3.43E-08	1.51E-11	0.00E+00	4.25E-08	1.11E-09	4.70E-09	2.24E-12	0.00E+00	5.81E-09	6.84E-10	2.16E-09	5.21E-13	0.00E+00	2.84E-09
778	420853.8	3733776.81	8.11E-09	3.42E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.68E-09	2.24E-12	0.00E+00	5.79E-09	6.82E-10	2.15E-09	5.19E-13	0.00E+00	2.83E-09
779	420863.49	3733775.08	8.08E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.67E-09	2.23E-12	0.00E+00	5.78E-09	6.80E-10	2.14E-09	5.18E-13	0.00E+00	2.82E-09
780	420180.71	3734289.18	1.32E-08	5.58E-08	2.45E-11	0.00E+00	6.91E-08	1.81E-09	7.63E-09	3.65E-12	0.00E+00	9.45E-09	1.11E-09	3.51E-09	8.47E-13	0.00E+00	4.62E-09
781	420180.67	3734299.04	1.32E-08	5.56E-08	2.44E-11	0.00E+00	6.87E-08	1.80E-09	7.60E-09	3.63E-12	0.00E+00	9.40E-09	1.11E-09	3.49E-09	8.43E-13	0.00E+00	4.60E-09
782	420180.63	3734308.9	1.31E-08	5.53E-08	2.43E-11	0.00E+00	6.84E-08	1.79E-09	7.56E-09	3.61E-12	0.00E+00	9.36E-09	1.10E-09	3.47E-09	8.39E-13	0.00E+00	4.58E-09
783	420180.59	3734318.76	1.30E-08	5.49E-08	2.41E-11	0.00E+00	6.80E-08	1.78E-09	7.51E-09	3.59E-12	0.00E+00	9.30E-09	1.09E-09	3.45E-09	8.34E-13	0.00E+00	4.55E-09
784	420180.55	3734328.62	1.29E-08	5.46E-08	2.40E-11	0.00E+00	6.76E-08	1.77E-09	7.47E-09	3.57E-12	0.00E+00	9.25E-09	1.09E-09	3.43E-09	8.29E-13	0.00E+00	4.52E-09
785	420180.51	3734338.48	1.29E-08	5.43E-08	2.38E-11	0.00E+00	6.72E-08	1.76E-09	7.43E-09	3.55E-12	0.00E+00	9.19E-09	1.08E-09	3.41E-09	8.24E-13	0.00E+00	4.50E-09
786	420180.47	3734348.34	1.28E-08	5.40E-08	2.37E-11	0.00E+00	6.68E-08	1.75E-09	7.38E-09	3.53E-12	0.00E+00	9.14E-09	1.08E-09	3.39E-09	8.19E-13	0.00E+00	4.47E-09
787	420180.39	3734368.06	1.26E-08	5.33E-08	2.34E-11	0.00E+00	6.60E-08	1.73E-09	7.29E-09	3.48E-12	0.00E+00	9.02E-09	1.06E-09	3.35E-09	8.09E-13	0.00E+00	4.41E-09
788	420158.34	3734254.09	1.22E-08	5.15E-08	2.26E-11	0.00E+00	6.38E-08	1.67E-09	7.05E-09	3.37E-12	0.00E+00	8.72E-09	1.03E-09	3.24E-09	7.82E-13	0.00E+00	4.27E-09
789	420162.74	3734245.36	1.25E-08	5.26E-08	2.31E-11	0.00E+00	6.51E-08	1.71E-09	7.19E-09	3.44E-12	0.00E+00	8.90E-09	1.05E-09	3.31E-09	7.98E-13	0.00E+00	4.35E-09
790	420167.15	3734236.63	1.27E-08	5.37E-08	2.36E-11	0.00E+00	6.64E-08	1.74E-09	7.34E-09	3.51E-12	0.00E+00	9.09E-09	1.07E-09	3.37E-09	8.14E-13	0.00E+00	4.44E-09
791	420171.56	3734227.9	1.30E-08	5.47E-08	2.40E-11	0.00E+00	6.77E-08	1.78E-09	7.48E-09	3.58E-12	0.00E+00	9.26E-09	1.09E-09	3.44E-09	8.30E-13	0.00E+00	4.53E-09
792	420175.96	3734219.16	1.32E-08	5.57E-08	2.44E-11	0.00E+00	6.89E-08	1.81E-09	7.62E-09	3.64E-12	0.00E+00	9.43E-09	1.11E-09	3.50E-09	8.45E-13	0.00E+00	4.61E-09
793	420180.37	3734210.43	1.34E-08	5.66E-08	2.48E-11	0.00E+00	7.01E-08	1.84E-09	7.74E-09	3.70E-12	0.00E+00	9.58E-09	1.13E-09	3.56E-09	8.59E-13	0.00E+00	4.69E-09
794	420184.77	3734201.7	1.36E-08	5.75E-08	2.52E-11	0.00E+00	7.11E-08	1.87E-09	7.86E-09	3.76E-12	0.00E+00	9.73E-09	1.15E-09	3.61E-09	8.72E-13	0.00E+00	4.76E-09
795	420189.18	3734192.97	1.38E-08	5.83E-08	2.56E-11	0.00E+00	7.21E-08	1.89E-09	7.97E-09	3.81E-12	0.00E+00	9.87E-09	1.16E-09	3.66E-09	8.84E-13	0.00E+00	4.83E-09
796	420193.58	3734184.24	1.40E-08	5.90E-08	2.59E-11	0.00E+00	7.30E-08	1.92E-09	8.07E-09	3.86E-12	0.00E+00	9.99E-09	1.18E-09	3.71E-09	8.96E-13	0.00E+00	4.89E-09
797	420197.99	3734175.51	1.41E-08	5.97E-08	2.62E-11	0.00E+00	7.38E-08	1.94E-09	8.16E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.05E-13	0.00E+00	4.94E-09
798	420211.21	3734149.31	1.44E-08	6.10E-08	2.68E-11	0.00E+00	7.55E-08	1.98E-09	8.34E-09	3.99E-12	0.00E+00	1.03E-08	1.22E-09	3.83E-09	9.25E-13	0.00E+00	5.05E-09
799	420215.61	3734140.58	1.45E-08	6.12E-08	2.69E-11	0.00E+00	7.57E-08	1.99E-09	8.37E-09	4.00E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.29E-13	0.00E+00	5.07E-09
800	420220.02	3734131.85	1.45E-08	6.13E-08	2.69E-11	0.00E+00	7.59E-08	1.99E-09	8.39E-09	4.01E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.31E-13	0.00E+00	5.08E-09
801	420224.43	3734123.12	1.45E-08	6.13E-08	2.69E-11	0.00E+00	7.59E-08	1.99E-09	8.39E-09	4.01E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.31E-13	0.00E+00	5.08E-09
802	420228.83	3734114.38	1.45E-08	6.12E-08	2.69E-11	0.00E+00	7.57E-08	1.99E-09	8.37E-09	4.00E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.28E-13	0.00E+00	5.07E-09
803	420233.24	3734105.65	1.44E-08	6.10E-08	2.67E-11	0.00E+00	7.54E-08	1.98E-09	8.34E-09	3.98E-12	0.00E+00	1.03E-08	1.21E-09	3.83E-09	9.25E-13	0.00E+00	5.05E-09
804	420237.64	3734096.92	1.44E-08	6.06E-08	2.66E-11	0.00E+00	7.50E-08	1.97E-09	8.29E-09	3.96E-12	0.00E+00	1.03E-08	1.21E-09	3.81E-09	9.19E-13	0.00E+00	5.02E-09
805	420242.05	3734088.19	1.42E-08	6.01E-08	2.64E-11	0.00E+00	7.44E-08	1.95E-09	8.22E-09	3.93E-12	0.00E+00	1.02E-08	1.20E-09	3.78E-09	9.12E-13	0.00E+00	4.98E-09
806	420246.45	3734079.46	1.41E-08	5.96E-08	2.61E-11	0.00E+00	7.37E-08	1.93E-09	8.14E-09	3.89E-12	0.00E+00	1.01E-08	1.19E-09	3.74E-09	9.04E-13	0.00E+00	4.93E-09
807	420268.48	3734035.8	1.31E-08	5.54E-08	2.43E-11	0.00E+00	6.86E-08	1.80E-09	7.58E-09	3.62E-12	0.00E+00	9.38E-09	1.10E-09	3.48E-09	8.41E-13	0.00E+00	4.59E-09
808	420272.89	3734027.07	1.29E-08	5.44E-08	2.39E-11	0.00E+00	6.73E-08	1.77E-09	7.44E-09	3.56E-12	0.00E+00	9.21E-09	1.08E-09	3.42E-09	8.26E-13	0.00E+00	4.50E-09
809	420277.3	3734018.34	1.26E-08	5.33E-08	2.34E-11	0.00E+00	6.60E-08	1.73E-09	7.29E-09	3.48E-12	0.00E+00	9.03E-09	1.06E-09	3.35E-09	8.09E-13	0.00E+00	4.41E-09
810	420281.7	3734009.6	1.24E-08	5.22E-08	2.29E-11	0.00E+00	6.46E-08	1.69E-09	7.14E-09	3.41E-12	0.00E+00	8.83E-09	1.04E-09	3.28E-09	7.92E-13	0.00E+00	4.32E-09
811	420286.11	3734000.87	1.21E-08	5.10E-08	2.24E-11	0.00E+00	6.31E-08	1.66E-09	6.98E-09	3.33E-12	0.00E+00	8.64E-09	1.02E-09	3.21E-09	7.74E-13	0.00E+00	4.22E-09
812	420290.51	3733992.14	1.18E-08	4.98E-08	2.19E-11	0.00E+00	6.16E-08	1.62E-09	6.81E-09	3.26E-12	0.00E+00	8.43E-09	9.93E-10	3.13E-09	7.56E-13	0.00E+00	4.12E-09
813	420294.92	3733983.41	1.15E-08	4.86E-08	2.13E-11	0.00E+00	6.01E-08	1.58E-09	6.65E-09	3.18E-12	0.00E+00	8.23E-09	9.68E-10	3.05E-09	7.37E-13	0.00E+00	4.02E-09
814	420299.32	3733974.68	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.86E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.02E-09	9.44E-10	2.98E-09	7.19E-13	0.00E+00	3.92E-09
815	420303.73	3733965.95	1.09E-08	4.61E-08	2.02E-11	0.00E+00	5.71E-08	1.50E-09	6.31E-09	3.02E-12	0.00E+00	7.81E-09	9.19E-10	2.90E-09	7.00E-13	0.00E+00	3.82E-09
816	420308.14	3733957.21	1.06E-08	4.49E-08	1.97E-11	0.00E+00	5.56E-08	1.46E-09	6.14E-09	2.94E-12	0.00E+00	7.60E-09	8.95E-10	2.82E-09	6.81E-13	0.00E+00	3.72E-09
817	420312.54	3733948.48	1.03E-08	4.37E-08	1.92E-11	0.00E+00	5.41E-08	1.42E-09	5.97E-09	2.86E-12	0.00E+00	7.40E-09	8.71E-10	2.75E-09	6.63E-13	0.00E+00	3.62E-09
818	420325.76	3733922.29	9.51E-09	4.02E-08	1.76E-11	0.00E+00	4.97E-08	1.30E-09	5.49E-09	2.62E-12	0.00E+00	6.80E-09	8.00E-10	2.52E-09	6.09E-13	0.00E+00	3.32E-09
819	420330.17	3733913.56	9.24E-09	3.90E-08	1.71E-11	0.00E+00	4.83E-08	1.27E-09	5.34E-09	2.55E-12	0.00E+00	6.61E-09	7.78E-10	2.45E-09	5.92E-13	0.00E+00	3.23E-09
820	420334.57	3733904.82	8.98E-09	3.79E-08	1.66E-11	0.00E+00	4.69E-08	1.23E-09	5.19E-09	2.48E-12	0.00E+00	6.42E-09	7.56E-10	2.38E-09	5.75E-13	0.00E+00	3.14E-09
821	420338.98	3733896.09	8.73E-09	3.69E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.34E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
822	420343.38	3733887.36	8.49E-09	3.58E-08	1.57E-11	0.00E+00	4.43E-08	1.16E-09	4.90E-09	2.34E-12	0.00E+00	6.07E-09	7.14E-10	2.25E-09	5.44E-13	0.00E+00	2.97E-09
823	420347.79	3733878.63	8.25E-09	3.48E-08	1.53E-11	0.00E+00	4.31E-08	1.13E-09	4.76E-09	2.28E-12	0.00E+00	5.90E-09	6.94E-10	2.19E-09	5.28E-13	0.00E+00	2.88E-09
824	420352.19	3733869.9	8.02E-09	3.39E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.63E-09	2.21E-12	0.00E+00	5.73E-09	6.75E-10	2.13E-09	5.14E-13	0.00E+00	2.80E-09

825	420356.6	3733861.16	7.80E-09	3.29E-08	1.44E-11	0.00E+00	4.07E-08	1.07E-09	4.50E-09	2.15E-12	0.00E+00	5.57E-09	6.56E-10	2.07E-09	5.00E-13	0.00E+00	2.73E-09
826	420361.01	3733852.43	7.59E-09	3.20E-08	1.41E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.86E-13	0.00E+00	2.65E-09
827	420365.41	3733843.7	7.39E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.26E-09	2.04E-12	0.00E+00	5.28E-09	6.21E-10	1.96E-09	4.73E-13	0.00E+00	2.58E-09
828	420383.85	3733824.52	6.98E-09	2.95E-08	1.29E-11	0.00E+00	3.65E-08	9.57E-10	4.03E-09	1.93E-12	0.00E+00	4.99E-09	5.88E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
829	420393.48	3733822.79	6.96E-09	2.94E-08	1.29E-11	0.00E+00	3.64E-08	9.54E-10	4.02E-09	1.92E-12	0.00E+00	4.97E-09	5.86E-10	1.85E-09	4.46E-13	0.00E+00	2.43E-09
830	420403.11	3733821.07	6.94E-09	2.93E-08	1.29E-11	0.00E+00	3.63E-08	9.51E-10	4.01E-09	1.92E-12	0.00E+00	4.96E-09	5.84E-10	1.84E-09	4.45E-13	0.00E+00	2.43E-09
831	420412.73	3733819.35	6.92E-09	2.92E-08	1.28E-11	0.00E+00	3.62E-08	9.49E-10	4.00E-09	1.91E-12	0.00E+00	4.95E-09	5.82E-10	1.84E-09	4.43E-13	0.00E+00	2.42E-09
832	420422.36	3733817.63	6.91E-09	2.92E-08	1.28E-11	0.00E+00	3.61E-08	9.47E-10	3.99E-09	1.91E-12	0.00E+00	4.94E-09	5.81E-10	1.83E-09	4.42E-13	0.00E+00	2.41E-09
833	420431.99	3733815.91	6.89E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.45E-10	3.98E-09	1.90E-12	0.00E+00	4.93E-09	5.80E-10	1.83E-09	4.41E-13	0.00E+00	2.41E-09
834	420441.62	3733814.18	6.88E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.43E-10	3.97E-09	1.90E-12	0.00E+00	4.92E-09	5.79E-10	1.83E-09	4.41E-13	0.00E+00	2.40E-09
835	420451.24	3733812.46	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.42E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
836	420460.87	3733810.74	6.86E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.41E-10	3.96E-09	1.89E-12	0.00E+00	4.91E-09	5.77E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
837	420470.5	3733809.02	6.86E-09	2.90E-08	1.27E-11	0.00E+00	3.58E-08	9.40E-10	3.96E-09	1.89E-12	0.00E+00	4.90E-09	5.77E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
838	420480.13	3733807.3	6.86E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.41E-10	3.96E-09	1.89E-12	0.00E+00	4.91E-09	5.77E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
839	420489.75	3733805.57	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.41E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
840	420499.38	3733803.85	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.42E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
841	420509.01	3733802.13	6.88E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.43E-10	3.97E-09	1.90E-12	0.00E+00	4.92E-09	5.79E-10	1.83E-09	4.41E-13	0.00E+00	2.41E-09
842	420518.64	3733800.41	6.90E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.45E-10	3.98E-09	1.90E-12	0.00E+00	4.93E-09	5.80E-10	1.83E-09	4.42E-13	0.00E+00	2.41E-09
843	420528.26	3733798.69	6.91E-09	2.92E-08	1.28E-11	0.00E+00	3.61E-08	9.47E-10	3.99E-09	1.91E-12	0.00E+00	4.94E-09	5.81E-10	1.83E-09	4.43E-13	0.00E+00	2.42E-09
844	420537.89	3733796.96	6.93E-09	2.92E-08	1.28E-11	0.00E+00	3.62E-08	9.49E-10	4.00E-09	1.91E-12	0.00E+00	4.95E-09	5.83E-10	1.84E-09	4.44E-13	0.00E+00	2.42E-09
845	420547.52	3733795.24	6.94E-09	2.93E-08	1.29E-11	0.00E+00	3.63E-08	9.52E-10	4.01E-09	1.92E-12	0.00E+00	4.96E-09	5.84E-10	1.84E-09	4.45E-13	0.00E+00	2.43E-09
846	420557.15	3733793.52	6.97E-09	2.94E-08	1.29E-11	0.00E+00	3.64E-08	9.55E-10	4.02E-09	1.92E-12	0.00E+00	4.98E-09	5.86E-10	1.85E-09	4.46E-13	0.00E+00	2.44E-09
847	420566.77	3733791.8	6.99E-09	2.95E-08	1.29E-11	0.00E+00	3.65E-08	9.58E-10	4.03E-09	1.93E-12	0.00E+00	4.99E-09	5.88E-10	1.85E-09	4.48E-13	0.00E+00	2.44E-09
848	420576.4	3733790.08	7.01E-09	2.96E-08	1.30E-11	0.00E+00	3.66E-08	9.61E-10	4.05E-09	1.93E-12	0.00E+00	5.01E-09	5.90E-10	1.86E-09	4.49E-13	0.00E+00	2.45E-09
849	420586.03	3733788.35	7.04E-09	2.97E-08	1.30E-11	0.00E+00	3.68E-08	9.65E-10	4.06E-09	1.94E-12	0.00E+00	5.03E-09	5.92E-10	1.87E-09	4.51E-13	0.00E+00	2.46E-09
850	420595.66	3733786.63	7.07E-09	2.98E-08	1.31E-11	0.00E+00	3.69E-08	9.69E-10	4.08E-09	1.95E-12	0.00E+00	5.05E-09	5.95E-10	1.88E-09	4.53E-13	0.00E+00	2.47E-09
851	420605.28	3733784.91	7.09E-09	3.00E-08	1.31E-11	0.00E+00	3.71E-08	9.73E-10	4.10E-09	1.96E-12	0.00E+00	5.07E-09	5.97E-10	1.88E-09	4.54E-13	0.00E+00	2.48E-09
852	420634.17	3733779.74	7.18E-09	3.03E-08	1.33E-11	0.00E+00	3.75E-08	9.84E-10	4.14E-09	1.98E-12	0.00E+00	5.13E-09	6.04E-10	1.90E-09	4.60E-13	0.00E+00	2.51E-09
853	420643.79	3733778.02	7.20E-09	3.04E-08	1.33E-11	0.00E+00	3.76E-08	9.87E-10	4.16E-09	1.99E-12	0.00E+00	5.15E-09	6.06E-10	1.91E-09	4.61E-13	0.00E+00	2.52E-09
854	420653.42	3733776.3	7.23E-09	3.05E-08	1.34E-11	0.00E+00	3.78E-08	9.91E-10	4.17E-09	1.99E-12	0.00E+00	5.17E-09	6.08E-10	1.92E-09	4.63E-13	0.00E+00	2.53E-09
855	420663.05	3733774.58	7.25E-09	3.06E-08	1.34E-11	0.00E+00	3.79E-08	9.94E-10	4.19E-09	2.00E-12	0.00E+00	5.18E-09	6.10E-10	1.92E-09	4.64E-13	0.00E+00	2.53E-09
856	420672.68	3733772.86	7.28E-09	3.07E-08	1.35E-11	0.00E+00	3.80E-08	9.97E-10	4.20E-09	2.01E-12	0.00E+00	5.20E-09	6.12E-10	1.93E-09	4.66E-13	0.00E+00	2.54E-09
857	420682.3	3733771.13	7.30E-09	3.08E-08	1.35E-11	0.00E+00	3.81E-08	1.00E-09	4.21E-09	2.01E-12	0.00E+00	5.22E-09	6.14E-10	1.94E-09	4.67E-13	0.00E+00	2.55E-09
858	420691.93	3733769.41	7.32E-09	3.09E-08	1.36E-11	0.00E+00	3.82E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.23E-09	6.16E-10	1.94E-09	4.69E-13	0.00E+00	2.56E-09
859	420701.56	3733767.69	7.34E-09	3.10E-08	1.36E-11	0.00E+00	3.83E-08	1.01E-09	4.24E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.95E-09	4.70E-13	0.00E+00	2.57E-09
860	420711.19	3733765.97	7.35E-09	3.10E-08	1.36E-11	0.00E+00	3.84E-08	1.01E-09	4.24E-09	2.03E-12	0.00E+00	5.25E-09	6.19E-10	1.95E-09	4.71E-13	0.00E+00	2.57E-09
861	420720.81	3733764.25	7.37E-09	3.11E-08	1.37E-11	0.00E+00	3.85E-08	1.01E-09	4.25E-09	2.03E-12	0.00E+00	5.27E-09	6.20E-10	1.96E-09	4.72E-13	0.00E+00	2.58E-09
862	420730.44	3733762.52	7.38E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.26E-09	2.04E-12	0.00E+00	5.28E-09	6.21E-10	1.96E-09	4.73E-13	0.00E+00	2.58E-09
863	420740.07	3733760.8	7.39E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.28E-09	6.22E-10	1.96E-09	4.74E-13	0.00E+00	2.58E-09
864	420749.7	3733759.08	7.40E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.29E-09	6.23E-10	1.96E-09	4.74E-13	0.00E+00	2.59E-09
865	420759.32	3733757.36	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.04E-12	0.00E+00	5.30E-09	6.23E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
866	420768.95	3733755.64	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.05E-12	0.00E+00	5.30E-09	6.24E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
867	420778.58	3733753.91	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.05E-12	0.00E+00	5.30E-09	6.24E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
868	420788.21	3733752.19	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.04E-12	0.00E+00	5.30E-09	6.23E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
869	420797.83	3733750.47	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.04E-12	0.00E+00	5.29E-09	6.23E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
870	420807.46	3733748.75	7.40E-09	3.12E-08	1.37E-11	0.00E+00	3.87E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.29E-09	6.23E-10	1.96E-09	4.74E-13	0.00E+00	2.59E-09
871	420817.09	3733747.03	7.39E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.28E-09	6.22E-10	1.96E-09	4.74E-13	0.00E+00	2.58E-09
872	420826.72	3733745.3	7.38E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.26E-09	2.04E-12	0.00E+00	5.27E-09	6.21E-10	1.96E-09	4.73E-13	0.00E+00	2.58E-09
873	420836.34	3733743.58	7.37E-09	3.11E-08	1.36E-11	0.00E+00	3.85E-08	1.01E-09	4.25E-09	2.03E-12	0.00E+00	5.26E-09	6.20E-10	1.95E-09	4.72E-13	0.00E+00	2.57E-09
874	420845.97	3733741.86	7.35E-09	3.10E-08	1.36E-11	0.00E+00	3.84E-08	1.01E-09	4.24E-09	2.03E-12	0.00E+00	5.25E-09	6.18E-10	1.95E-09	4.71E-13	0.00E+00	2.57E-09
875	420855.6	3733740.14	7.33E-09	3.10E-08	1.36E-11	0.00E+00	3.83E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.95E-09	4.70E-13	0.00E+00	2.56E-09
876	420865.23	3733738.42	7.31E-09	3.09E-08	1.35E-11	0.00E+00	3.82E-08	1.00E-09	4.22E-09	2.02E-12	0.00E+00	5.23E-09	6.15E-10	1.94E-09	4.68E-13	0.00E+00	2.56E-09
877	420874.85	3733736.69	7.29E-09	3.08E-08	1.35E-11	0.00E+00	3.81E-08	9.99E-10	4.21E-09	2.01E-12	0.00E+00	5.21E-09	6.13E-10	1.93E-09	4.67E-13	0.00E+00	2.55E-09
878	420140.71	3734289.02	1.12E-08	4.72E-08	2.07E-11	0.00E+00	5.84E-08	1.53E-09	6.45E-09	3.08E-12	0.00E+00	7.99E-09	9.40E-10	2.96E-09	7.16E-13	0.00E+00	3.91E-09
879	420140.67	3734298.88	1.11E-08	4.69E-08	2.06E-11	0.00E+00	5.80E-08	1.52E-09	6.42E-09	3.07E-12	0.00E+00	7.94E-09	9.35E-10	2.95E-09	7.12E-13	0.00E+00	3.88E-09
880	420140.63	3734308.74	1.10E-08	4.67E-08	2.05E-11	0.00E+00	5.77E-08	1.51E-09	6.38E-09	3.05E-12	0.00E+00	7.90E-09	9.30E-10	2.93E-09	7.08E-13	0.00E+00	3.86E-09
881	420140.59	3734318.6	1.10E-08	4.64E-08	2.04E-11	0.00E+00	5.74E-08	1.51E-09	6.34E-09	3.03E-12	0.00E+00	7.85E-09	9.24E-10	2.91E-09	7.04E-13	0.00E+00	3.84E-09
882	420140.55	3734328.46	1.09E-08	4.61E-08	2.02E-11	0.00E+00	5.71E-08	1.50E-09	6.31E-09	3.01E-12	0.00E+00	7.81E-09	9.19E-10	2.90E-09	7.00E-13	0.00E+00	3.82E-09
883	420140.51	3734338.32	1.09E-08	4.59E-08	2.01E-11	0.00E+00	5.67E-08	1.49E-09	6.27E-09	3.00E-12	0.00E+00	7.76E-09	9.14E-10	2.88E-09	6.96E-13	0.00E+00	3.80E-09
884	420140.47	3734348.18	1.08E-08	4.56E-08	2.00E-11	0.00E+00	5.64E-08	1.48E-09	6.23E-09	2.98E-12	0.00E+00	7.72E-09	9.08E-10	2.86E-09	6.91E-13	0.00E+00	3.77E-09
885	420140.39	3734367.9	1.07E-08	4.50E-08	1.98E-11	0.00E+00	5.57E-08	1.46E-09	6.16E-09	2.94E-12	0.00E+00	7.62E-09	8.97E-10	2.83E-09	6.83E-13	0.00E+00	3.73E-09
886	420118.23	3734254.14	1.04E-08	4.39E-08	1.93E-11	0.00E+00	5.44E-08	1.43E-09	6.01E-09	2.87E-12	0.00E+00	7.44E-09	8.75E-10	2.76E-09	6.67E-13	0.00E+00	3.64E-09
887	420122.61	3734245.46	1.06E-08	4.49E-08	1.97E-11	0.00E+00	5.55E-08	1.46E-09	6.13E-09	2.93E-12	0.00E+00	7.59E-09	8.94E-10	2.82E-09	6.80E-13	0.00E+00	3.71E-09
888	420126.99	3734236.78	1.08E-08	4.58E-08	2.01E-11	0.00E+00	5.66E-08	1.49E-09	6.26E-09	2.99E-12	0.00E+00	7.75E-09	9.12E-10	2.88E-09	6.94E-13	0.00E+00	3.79E-09
889	420144.51	3734202.07	1.17E-08	4.92E-08	2.16E-11	0.00E+00	6.09E-08	1.60E-09	6.73E-09	3.22E-12	0.00E+00	8.33E-09	9.81E-10	3.09E-09	7.47E-13	0.00E+00	4.08E-09
890	420148.89	3734193.39	1.18E-08	5.00E-08	2.19E-11	0.00E+00	6.19E-08	1.62E-09	6.84E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.14E-09	7.59E-13	0.00E+00	4.14E-09
891	420153.27	3734184.71	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.28E-08	1.65E-09	6.94E-09	3.32E-12	0.00E+00	8.59E-09	1.01E-09	3.19E-09	7.70E-13	0.00E+00	4.20E-09
892	420157.64	3734176.03	1.22E-08	5.14E-08	2.26E-11	0.00E+00	6.36E-08	1.67E-09	7.03E-09	3.36E-12	0.00E+00	8.71E-09	1.02E-09	3.23E-09	7.80E-13	0.00E+00	4.26E-09
893	420170.78	3734149.99	1.26E-08	5.31E-08	2.33E-11	0.00E+00	6.57E-08	1.72E-09	7.26E-09	3.47E-12	0.00E+00	8.99E-09	1.06E-09	3.34E-09	8.06E-13	0.00E+00	4.40E-09
894	420175.16	3734141.31	1.27E-08	5.35E-08	2.35E-11	0.00E+00	6.62E-08	1.74E-09	7.32E-09	3.50E-12	0.00E+00	9.06E-09	1.07E-09	3.36E-09	8.12E-13	0.00E+00	4.43E-09
895	420179.54	3734132.64	1.27E-08	5.38E-08	2.36E-11	0.00E+00	6.66E-08	1.75E-09	7.36E-09	3.52E-12	0.00E+00	9.11E-09	1.07E-09	3.38E-09	8.17E-13	0.00E+00	4.46E-09
896	420183.92	3734123.96	1.28E-08	5.41E-08	2.37E-11	0.00E+00	6.69E-08	1.76E-09	7.39E-09	3.53E-12	0.00E+00	9.15E-09	1.08E-09	3.40E-09	8.20E-13	0.00E+00	4.48E-09
897	420188.3	3734115.28	1.28E-08	5.42E-08	2.38E-11	0.00E+00	6.71E-08	1.76E-09	7.41E-09	3.54E-12	0.00E+00	9.18E-09	1.08E-09	3.41E-09	8.22E-13	0.00E+00	4.49E-09
898	420192.68	3734106.6	1.28E-08	5.43E-08	2.38E-11	0.00E+00	6.71E-08	1.76E-09	7.42E-09	3.55E-12	0.00E+00	9.18E-09	1.08E-09	3.41E-09	8.23E-13	0.00E+00	4.49E-09
899	420197.06	3734097.92	1.28E-08	5.42E-08	2.38E-11	0.00E+00	6.71E-08	1.76E-09	7.41E-09	3.54E-12	0.00E+00	9.18E-09	1.08E-09	3.41E-09	8.23E-13	0.00E+00	4.49E-09
900	420201.44	3734089.24	1.28E-08	5.41E-08	2.37E-11	0.00E+00	6.69E-08	1.76E-09	7.40E-09	3.54E-12	0.00E+00	9.16E-09	1.08E-09	3.40E-09	8.21E-13	0.00E+00	4.48E-09
901	420205.82	3734080.56	1.28E-08	5.39E-08	2.36E-11	0.00E+00	6.66E-08	1.75E-09	7.37E-09	3.52E-12	0.00E+00	9.12E-09	1.07E-09	3.39E-09	8.17E-13	0.00E+00	4.46E-09
902	420210.19	3734071.88	1.27E-08	5.36E-08	2.35E-11	0.00E+00	6.63E-08	1.74E-09	7.32E-09	3.50E-12	0.00E+00	9.07E-09	1.07E-09	3.37E-09	8.13E-13	0.00E+00	4.43E-09
903	420214.57	3734063.2	1.26E-08	5.32E-08	2.33E-11	0.00E+00	6.58E-08	1.73E-09	7.27E-09	3.47E-12	0.00E+00	9.00E-09	1.06E-09	3.34E-09	8.06E-13	0.00E+00	4.40E-09
904	420232.09	3734028.49	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.29E-08	1.65E-09	6.95E-09	3.32E-12	0.00E+00	8.60E-09	1.01E-09	3.19E-09	7.71E-13	0.00E+00	4.21E-09
905	420236.47	3734019.81	1.19E-08	5.01E-08	2.20E-11	0.00E+00	6.20E-08	1.63E-09	6.85E-09	3.27E-12	0.00E+00	8.48E-09	9.98E-10	3.15E-09	7.60E-13	0.00E+00	4.15E-09
906	420240.85	3734011.13	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.74E-09	3.22E-12	0.00E+00	8.34E-09	9.82E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
907	420245.23	3734002.45	1.15E-08	4.85E-08	2.13E-11	0.00E+00	5.99E-08	1.57E-09	6.63E-09	3.17E-12	0.00E+00	8.20E-09	9.65E-10	3.05E-09	7.35E-13	0.00E+00	4.01E-09
908	420262.74	3733967.74	1.06E-08	4.47E-08	1.96E-11	0.00E+00	5.53E-08	1.45E-09	6.11E-09	2.92E-12	0.00E+00	7.57E-09	8.91E-10	2.81E-09	6.78E-13	0.00E+00	3.70E-09
909	420267.12	3733959.06	1.03E-08	4.37E-08	1.92E-11	0.00E+00	5.41E-08	1.42E-09	5.97E-09	2.86E-12	0.00E+00	7.40E-09	8.71E-10	2.75E-09	6.63E-13	0.00E+00	3.62E-09
910	420271.5	3733950.38	1.01E-08	4.27E-08	1.87E-11	0.00E+00	5.28E-08	1.39E-09	5.84E-09	2.79E-12	0.00E+00	7.22E-09	8.50E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
911	420284.64	3733924.34	9.39E-09	3.96E-08	1.74E-11	0.00E+00	4.91E-08	1.29E-09	5.42E-09	2.59E-12	0.00E+00	6.71E-09	7.90E-10	2.49E-09	6.01E-13	0.00E+00	3.28E-09
912	420289.02	3733915.66	9.15E-09	3.86E-08	1.70E-11	0.00E+00	4.78E-08	1.25E-09	5.28E-09	2.53E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.86E-13	0.00E+00	3.20E-09
913	420293.4	3733906.99	8.92E-09	3.76E-08	1.65E-11	0.00E+00	4.66E-08	1.22E-09	5.15E-09	2.46E-12	0.00E+00	6.37E-09	7.50E-10	2.37E-09	5.71E-13	0.00E+00	3.12E-09
914	420297.78	3733898.31	8.68E-09	3.67E-08	1.61E-11	0.00E+00	4.54E-08	1.19E-09	5.01E-09	2.40E-12	0.00E+00	6.21E-09	7.31E-10	2.30E-09	5.56E-13	0.00E+00	3.04E-09
915	420302.16	3733889.63	8.45E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.04E-09	7.11E-10	2.24E-09	5.42E-13	0.00E+00	2.96E-09
916	420306.54	3733880.95	8.23E-09	3.48E-08	1.53E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.93E-10	2.18E-09	5.27E-13	0.00E+00	2.88E-09

917	420310.92	3733872.27	8.02E-09	3.38E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.63E-09	2.21E-12	0.00E+00	5.73E-09	6.74E-10	2.13E-09	5.13E-13	0.00E+00	2.80E-09
918	420315.3	3733863.59	7.81E-09	3.30E-08	1.45E-11	0.00E+00	4.08E-08	1.07E-09	4.51E-09	2.15E-12	0.00E+00	5.58E-09	6.57E-10	2.07E-09	5.00E-13	0.00E+00	2.73E-09
919	420319.67	3733854.91	7.60E-09	3.21E-08	1.41E-11	0.00E+00	3.97E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.43E-09	6.39E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09
920	420324.05	3733846.23	7.40E-09	3.12E-08	1.37E-11	0.00E+00	3.87E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.29E-09	6.23E-10	1.96E-09	4.74E-13	0.00E+00	2.59E-09
921	420328.43	3733837.55	7.21E-09	3.04E-08	1.34E-11	0.00E+00	3.77E-08	9.88E-10	4.16E-09	1.99E-12	0.00E+00	5.15E-09	6.06E-10	1.91E-09	4.62E-13	0.00E+00	2.52E-09
922	420341.57	3733811.52	6.68E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.15E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.62E-10	1.77E-09	4.28E-13	0.00E+00	2.33E-09
923	420345.95	3733802.84	6.51E-09	2.75E-08	1.21E-11	0.00E+00	3.40E-08	8.92E-10	3.76E-09	1.80E-12	0.00E+00	4.65E-09	5.48E-10	1.73E-09	4.17E-13	0.00E+00	2.28E-09
924	420359.9	3733792.45	6.33E-09	2.67E-08	1.17E-11	0.00E+00	3.31E-08	8.68E-10	3.66E-09	1.75E-12	0.00E+00	4.53E-09	5.33E-10	1.68E-09	4.06E-13	0.00E+00	2.21E-09
925	420388.61	3733787.31	6.27E-09	2.65E-08	1.16E-11	0.00E+00	3.28E-08	8.60E-10	3.62E-09	1.73E-12	0.00E+00	4.48E-09	5.28E-10	1.66E-09	4.02E-13	0.00E+00	2.19E-09
926	420398.17	3733785.6	6.26E-09	2.64E-08	1.16E-11	0.00E+00	3.27E-08	8.58E-10	3.61E-09	1.73E-12	0.00E+00	4.47E-09	5.26E-10	1.66E-09	4.01E-13	0.00E+00	2.19E-09
927	420407.74	3733783.89	6.24E-09	2.64E-08	1.16E-11	0.00E+00	3.26E-08	8.56E-10	3.60E-09	1.72E-12	0.00E+00	4.46E-09	5.25E-10	1.66E-09	4.00E-13	0.00E+00	2.18E-09
928	420417.31	3733782.18	6.23E-09	2.63E-08	1.15E-11	0.00E+00	3.25E-08	8.54E-10	3.60E-09	1.72E-12	0.00E+00	4.45E-09	5.24E-10	1.65E-09	3.99E-13	0.00E+00	2.18E-09
929	420426.88	3733780.47	6.22E-09	2.63E-08	1.15E-11	0.00E+00	3.25E-08	8.52E-10	3.59E-09	1.72E-12	0.00E+00	4.44E-09	5.23E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
930	420436.45	3733778.76	6.21E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.59E-09	1.71E-12	0.00E+00	4.44E-09	5.23E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
931	420446.02	3733777.04	6.21E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.58E-09	1.71E-12	0.00E+00	4.44E-09	5.22E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
932	420455.59	3733775.33	6.20E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.58E-09	1.71E-12	0.00E+00	4.43E-09	5.22E-10	1.65E-09	3.97E-13	0.00E+00	2.17E-09
933	420465.16	3733773.62	6.20E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.58E-09	1.71E-12	0.00E+00	4.43E-09	5.22E-10	1.65E-09	3.97E-13	0.00E+00	2.17E-09
934	420474.73	3733771.91	6.21E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.58E-09	1.71E-12	0.00E+00	4.44E-09	5.22E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
935	420484.3	3733770.2	6.21E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.59E-09	1.71E-12	0.00E+00	4.44E-09	5.23E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
936	420493.87	3733768.49	6.22E-09	2.63E-08	1.15E-11	0.00E+00	3.25E-08	8.52E-10	3.59E-09	1.72E-12	0.00E+00	4.44E-09	5.23E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
937	420503.44	3733766.77	6.23E-09	2.63E-08	1.15E-11	0.00E+00	3.25E-08	8.54E-10	3.60E-09	1.72E-12	0.00E+00	4.45E-09	5.24E-10	1.65E-09	3.99E-13	0.00E+00	2.18E-09
938	420513.01	3733765.06	6.24E-09	2.64E-08	1.16E-11	0.00E+00	3.26E-08	8.56E-10	3.60E-09	1.72E-12	0.00E+00	4.46E-09	5.25E-10	1.66E-09	4.00E-13	0.00E+00	2.18E-09
939	420522.57	3733763.35	6.26E-09	2.64E-08	1.16E-11	0.00E+00	3.27E-08	8.58E-10	3.61E-09	1.73E-12	0.00E+00	4.47E-09	5.26E-10	1.66E-09	4.01E-13	0.00E+00	2.19E-09
940	420532.14	3733761.64	6.27E-09	2.65E-08	1.16E-11	0.00E+00	3.28E-08	8.59E-10	3.62E-09	1.73E-12	0.00E+00	4.48E-09	5.27E-10	1.66E-09	4.02E-13	0.00E+00	2.19E-09
941	420541.71	3733759.93	6.29E-09	2.66E-08	1.17E-11	0.00E+00	3.29E-08	8.62E-10	3.63E-09	1.74E-12	0.00E+00	4.50E-09	5.29E-10	1.67E-09	4.03E-13	0.00E+00	2.20E-09
942	420551.28	3733758.22	6.31E-09	2.66E-08	1.17E-11	0.00E+00	3.30E-08	8.65E-10	3.64E-09	1.74E-12	0.00E+00	4.51E-09	5.31E-10	1.67E-09	4.04E-13	0.00E+00	2.20E-09
943	420560.85	3733756.51	6.33E-09	2.67E-08	1.17E-11	0.00E+00	3.31E-08	8.67E-10	3.65E-09	1.75E-12	0.00E+00	4.52E-09	5.32E-10	1.68E-09	4.05E-13	0.00E+00	2.21E-09
944	420570.42	3733754.79	6.35E-09	2.68E-08	1.18E-11	0.00E+00	3.32E-08	8.71E-10	3.67E-09	1.75E-12	0.00E+00	4.54E-09	5.34E-10	1.69E-09	4.07E-13	0.00E+00	2.22E-09
945	420579.99	3733753.08	6.38E-09	2.69E-08	1.18E-11	0.00E+00	3.33E-08	8.74E-10	3.68E-09	1.76E-12	0.00E+00	4.56E-09	5.36E-10	1.69E-09	4.08E-13	0.00E+00	2.23E-09
946	420589.56	3733751.37	6.40E-09	2.70E-08	1.19E-11	0.00E+00	3.34E-08	8.77E-10	3.70E-09	1.77E-12	0.00E+00	4.57E-09	5.38E-10	1.70E-09	4.10E-13	0.00E+00	2.24E-09
947	420599.13	3733749.66	6.42E-09	2.71E-08	1.19E-11	0.00E+00	3.36E-08	8.81E-10	3.71E-09	1.77E-12	0.00E+00	4.59E-09	5.40E-10	1.70E-09	4.12E-13	0.00E+00	2.25E-09
948	420608.7	3733747.95	6.45E-09	2.72E-08	1.20E-11	0.00E+00	3.37E-08	8.84E-10	3.73E-09	1.78E-12	0.00E+00	4.61E-09	5.43E-10	1.71E-09	4.13E-13	0.00E+00	2.26E-09
949	420618.27	3733746.24	6.48E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.88E-10	3.74E-09	1.79E-12	0.00E+00	4.63E-09	5.45E-10	1.72E-09	4.15E-13	0.00E+00	2.26E-09
950	420646.97	3733741.1	6.54E-09	2.76E-08	1.21E-11	0.00E+00	3.42E-08	8.97E-10	3.78E-09	1.81E-12	0.00E+00	4.68E-09	5.51E-10	1.74E-09	4.19E-13	0.00E+00	2.29E-09
951	420656.54	3733739.39	6.57E-09	2.77E-08	1.22E-11	0.00E+00	3.43E-08	9.00E-10	3.79E-09	1.81E-12	0.00E+00	4.69E-09	5.53E-10	1.74E-09	4.21E-13	0.00E+00	2.30E-09
952	420666.11	3733737.68	6.59E-09	2.78E-08	1.22E-11	0.00E+00	3.44E-08	9.03E-10	3.80E-09	1.82E-12	0.00E+00	4.71E-09	5.54E-10	1.75E-09	4.22E-13	0.00E+00	2.30E-09
953	420675.68	3733735.97	6.61E-09	2.79E-08	1.23E-11	0.00E+00	3.45E-08	9.07E-10	3.82E-09	1.82E-12	0.00E+00	4.73E-09	5.56E-10	1.75E-09	4.24E-13	0.00E+00	2.31E-09
954	420685.25	3733734.25	6.63E-09	2.80E-08	1.23E-11	0.00E+00	3.46E-08	9.09E-10	3.83E-09	1.83E-12	0.00E+00	4.74E-09	5.58E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
955	420694.82	3733732.54	6.65E-09	2.81E-08	1.23E-11	0.00E+00	3.47E-08	9.11E-10	3.84E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.26E-13	0.00E+00	2.32E-09
956	420704.39	3733730.83	6.66E-09	2.81E-08	1.23E-11	0.00E+00	3.48E-08	9.14E-10	3.85E-09	1.84E-12	0.00E+00	4.76E-09	5.61E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
957	420713.96	3733729.12	6.68E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.16E-10	3.86E-09	1.84E-12	0.00E+00	4.77E-09	5.62E-10	1.77E-09	4.28E-13	0.00E+00	2.33E-09
958	420723.53	3733727.41	6.69E-09	2.83E-08	1.24E-11	0.00E+00	3.50E-08	9.17E-10	3.86E-09	1.85E-12	0.00E+00	4.78E-09	5.63E-10	1.78E-09	4.29E-13	0.00E+00	2.34E-09
959	420733.1	3733725.7	6.71E-09	2.83E-08	1.24E-11	0.00E+00	3.50E-08	9.19E-10	3.87E-09	1.85E-12	0.00E+00	4.79E-09	5.64E-10	1.78E-09	4.30E-13	0.00E+00	2.34E-09
960	420742.67	3733723.98	6.72E-09	2.84E-08	1.24E-11	0.00E+00	3.51E-08	9.21E-10	3.88E-09	1.85E-12	0.00E+00	4.80E-09	5.65E-10	1.78E-09	4.30E-13	0.00E+00	2.35E-09
961	420752.24	3733722.27	6.72E-09	2.84E-08	1.25E-11	0.00E+00	3.51E-08	9.22E-10	3.88E-09	1.86E-12	0.00E+00	4.81E-09	5.66E-10	1.78E-09	4.31E-13	0.00E+00	2.35E-09
962	420761.81	3733720.56	6.73E-09	2.84E-08	1.25E-11	0.00E+00	3.52E-08	9.23E-10	3.89E-09	1.86E-12	0.00E+00	4.81E-09	5.66E-10	1.79E-09	4.31E-13	0.00E+00	2.35E-09
963	420771.37	3733718.85	6.73E-09	2.84E-08	1.25E-11	0.00E+00	3.52E-08	9.23E-10	3.89E-09	1.86E-12	0.00E+00	4.81E-09	5.67E-10	1.79E-09	4.31E-13	0.00E+00	2.35E-09
964	420780.94	3733717.14	6.74E-09	2.84E-08	1.25E-11	0.00E+00	3.52E-08	9.24E-10	3.89E-09	1.86E-12	0.00E+00	4.82E-09	5.67E-10	1.79E-09	4.32E-13	0.00E+00	2.36E-09
965	420790.51	3733715.43	6.73E-09	2.84E-08	1.25E-11	0.00E+00	3.52E-08	9.23E-10	3.89E-09	1.86E-12	0.00E+00	4.81E-09	5.67E-10	1.79E-09	4.31E-13	0.00E+00	2.35E-09
966	420800.08	3733713.72	6.73E-09	2.84E-08	1.25E-11	0.00E+00	3.52E-08	9.23E-10	3.89E-09	1.86E-12	0.00E+00	4.81E-09	5.67E-10	1.79E-09	4.31E-13	0.00E+00	2.35E-09
967	420809.65	3733712	6.73E-09	2.84E-08	1.25E-11	0.00E+00	3.52E-08	9.23E-10	3.89E-09	1.86E-12	0.00E+00	4.81E-09	5.66E-10	1.79E-09	4.31E-13	0.00E+00	2.35E-09
968	420819.22	3733710.29	6.72E-09	2.84E-08	1.25E-11	0.00E+00	3.51E-08	9.22E-10	3.88E-09	1.86E-12	0.00E+00	4.81E-09	5.66E-10	1.78E-09	4.31E-13	0.00E+00	2.35E-09
969	420828.79	3733708.58	6.71E-09	2.83E-08	1.24E-11	0.00E+00	3.51E-08	9.20E-10	3.88E-09	1.85E-12	0.00E+00	4.80E-09	5.65E-10	1.78E-09	4.30E-13	0.00E+00	2.35E-09
970	420838.36	3733706.87	6.70E-09	2.83E-08	1.24E-11	0.00E+00	3.50E-08	9.19E-10	3.87E-09	1.85E-12	0.00E+00	4.79E-09	5.64E-10	1.78E-09	4.29E-13	0.00E+00	2.34E-09
971	420847.93	3733705.16	6.69E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.17E-10	3.86E-09	1.85E-12	0.00E+00	4.78E-09	5.63E-10	1.78E-09	4.28E-13	0.00E+00	2.34E-09
972	420857.5	3733703.45	6.68E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.15E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.62E-10	1.77E-09	4.28E-13	0.00E+00	2.33E-09
973	420867.07	3733701.73	6.66E-09	2.81E-08	1.23E-11	0.00E+00	3.48E-08	9.13E-10	3.84E-09	1.84E-12	0.00E+00	4.76E-09	5.60E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
974	420876.64	3733700.02	6.64E-09	2.80E-08	1.23E-11	0.00E+00	3.47E-08	9.10E-10	3.83E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
975	420886.21	3733698.31	6.62E-09	2.80E-08	1.23E-11	0.00E+00	3.46E-08	9.08E-10	3.82E-09	1.83E-12	0.00E+00	4.73E-09	5.57E-10	1.76E-09	4.24E-13	0.00E+00	2.32E-09
976	420100.72	3734288.85	9.55E-09	4.03E-08	1.77E-11	0.00E+00	4.99E-08	1.31E-09	5.51E-09	2.64E-12	0.00E+00	6.83E-09	8.04E-10	2.53E-09	6.12E-13	0.00E+00	3.34E-09
977	420100.68	3734298.71	9.50E-09	4.01E-08	1.76E-11	0.00E+00	4.96E-08	1.30E-09	5.48E-09	2.62E-12	0.00E+00	6.79E-09	7.99E-10	2.52E-09	6.08E-13	0.00E+00	3.32E-09
978	420100.64	3734308.57	9.44E-09	3.99E-08	1.75E-11	0.00E+00	4.93E-08	1.29E-09	5.45E-09	2.61E-12	0.00E+00	6.75E-09	7.94E-10	2.51E-09	6.05E-13	0.00E+00	3.30E-09
979	420100.6	3734318.43	9.39E-09	3.96E-08	1.74E-11	0.00E+00	4.91E-08	1.29E-09	5.42E-09	2.59E-12	0.00E+00	6.71E-09	7.90E-10	2.49E-09	6.01E-13	0.00E+00	3.28E-09
980	420100.56	3734328.29	9.33E-09	3.94E-08	1.73E-11	0.00E+00	4.88E-08	1.28E-09	5.39E-09	2.58E-12	0.00E+00	6.67E-09	7.85E-10	2.48E-09	5.98E-13	0.00E+00	3.26E-09
981	420100.52	3734338.15	9.28E-09	3.92E-08	1.72E-11	0.00E+00	4.85E-08	1.27E-09	5.36E-09	2.56E-12	0.00E+00	6.63E-09	7.81E-10	2.46E-09	5.95E-13	0.00E+00	3.24E-09
982	420100.48	3734348.01	9.23E-09	3.90E-08	1.71E-11	0.00E+00	4.82E-08	1.27E-09	5.33E-09	2.55E-12	0.00E+00	6.60E-09	7.77E-10	2.45E-09	5.91E-13	0.00E+00	3.23E-09
983	420100.4	3734367.73	9.13E-09	3.85E-08	1.69E-11	0.00E+00	4.77E-08	1.25E-09	5.27E-09	2.52E-12	0.00E+00	6.52E-09	7.68E-10	2.42E-09	5.85E-13	0.00E+00	3.19E-09
984	420078.43	3734253.59	8.97E-09	3.79E-08	1.66E-11	0.00E+00	4.68E-08	1.23E-09	5.18E-09	2.47E-12	0.00E+00	6.41E-09	7.54E-10	2.38E-09	5.74E-13	0.00E+00	3.13E-09
985	420082.86	3734244.81	9.16E-09	3.87E-08	1.70E-11	0.00E+00	4.78E-08	1.26E-09	5.29E-09	2.53E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.87E-13	0.00E+00	3.20E-09
986	420087.29	3734236.03	9.34E-09	3.94E-08	1.73E-11	0.00E+00	4.88E-08	1.28E-09	5.39E-09	2.58E-12	0.00E+00	6.68E-09	7.86E-10	2.48E-09	5.98E-13	0.00E+00	3.27E-09
987	420091.72	3734227.25	9.53E-09	4.02E-08	1.77E-11	0.00E+00	4.98E-08	1.31E-09	5.50E-09	2.63E-12	0.00E+00	6.81E-09	8.02E-10	2.53E-09	6.10E-13	0.00E+00	3.33E-09
988	420096.14	3734218.48	9.72E-09	4.10E-08	1.80E-11	0.00E+00	5.08E-08	1.33E-09	5.61E-09	2.68E-12	0.00E+00	6.94E-09	8.17E-10	2.58E-09	6.22E-13	0.00E+00	3.40E-09
989	420100.57	3734209.7	9.90E-09	4.18E-08	1.83E-11	0.00E+00	5.17E-08	1.36E-09	5.71E-09	2.73E-12	0.00E+00	7.07E-09	8.33E-10	2.63E-09	6.34E-13	0.00E+00	3.46E-09
990	420105	3734200.92	1.01E-08	4.25E-08	1.87E-11	0.00E+00	5.26E-08	1.38E-09	5.82E-09	2.78E-12	0.00E+00	7.20E-09	8.47E-10	2.67E-09	6.45E-13	0.00E+00	3.52E-09
991	420109.43	3734192.15	1.02E-08	4.33E-08	1.90E-11	0.00E+00	5.35E-08	1.40E-09	5.92E-09	2.83E-12	0.00E+00	7.32E-09	8.62E-10	2.72E-09	6.57E-13	0.00E+00	3.58E-09
992	420113.86	3734183.37	1.04E-08	4.40E-08	1.93E-11	0.00E+00	5.44E-08	1.43E-09	6.01E-09	2.87E-12	0.00E+00	7.44E-09	8.76E-10	2.76E-09	6.67E-13	0.00E+00	3.64E-09
993	420118.29	3734174.59	1.06E-08	4.46E-08	1.96E-11	0.00E+00	5.52E-08	1.45E-09	6.10E-09	2.92E-12	0.00E+00	7.56E-09	8.89E-10	2.81E-09	6.77E-13	0.00E+00	3.70E-09
994	420144.86	3734121.93	1.13E-08	4.77E-08	2.09E-11	0.00E+00	5.90E-08	1.55E-09	6.52E-09	3.12E-12	0.00E+00	8.07E-09	9.50E-10	3.00E-09	7.24E-13	0.00E+00	3.95E-09
995	420149.29	3734113.16	1.14E-08	4.80E-08	2.11E-11	0.00E+00	5.94E-08	1.56E-09	6.56E-09	3.14E-12	0.00E+00	8.12E-09	9.56E-10	3.01E-09	7.28E-13	0.00E+00	3.97E-09
996	420153.72	3734104.38	1.14E-08	4.82E-08	2.11E-11	0.00E+00	5.96E-08	1.56E-09	6.59E-09	3.15E-12	0.00E+00	8.15E-09	9.60E-10	3.03E-09	7.31E-13	0.00E+00	3.99E-09
997	420158.15	3734095.6	1.14E-08	4.83E-08	2.12E-11	0.00E+00	5.98E-08	1.57E-09	6.61E-09	3.16E-12	0.00E+00	8.18E-09	9.62E-10	3.04E-09	7.33E-13	0.00E+00	4.00E-09
998	420162.57	3734086.83	1.15E-08	4.84E-08	2.12E-11	0.00E+00	5.98E-08	1.57E-09	6.61E-09	3.16E-12	0.00E+00	8.19E-09	9.64E-10	3.04E-09	7.34E-13	0.00E+00	4.00E-09
999	420167	3734078.05	1.15E-08	4.83E-08	2.12E-11	0.00E+00	5.98E-08	1.57E-09	6.61E-09	3.16E-12	0.00E+00	8.18E-09	9.63E-10	3.04E-09	7.34E-13	0.00E+00	4.00E-09
1000	420171.43	3734069.27	1.14E-08	4.83E-08	2.12E-11	0.00E+00	5.97E-08	1.57E-09	6.60E-09	3.15E-12	0.00E+00	8.17E-09	9.62E-10	3.03E-09	7.32E-13	0.00E+00	4.00E-09
1001	420175.86	3734060.49	1.14E-08	4.81E-08	2.11E-11	0.00E+00	5.95E-08	1.56E-09	6.58E-09	3.14E-12	0.00E+00	8.14E-09	9.58E-10	3.02E-09	7.30E-13	0.00E+00	3.98E-09
1002	420189.15	3734034.16	1.12E-08	4.72E-08	2.07E-11	0.00E+00	5.83E-08	1.53E-09	6.45E-09	3.08E-12	0.00E+00	7.98E-09	9.40E-10	2.96E-09	7.15E-13	0.00E+00	3.90E-09
1003	420193.57	3734025.39	1.11E-08	4.67E-08	2.05E-11	0.00E+00	5.78E-08	1.52E-09	6.39E-09	3.05E-12	0.00E+00	7.91E-09	9.31E-10	2.94E-09	7.09E-13	0.00E+00	3.87E-09
1004	420198	3734016.61	1.10E-08	4.62E-08	2.03E-11	0.00E+00	5.72E-08	1.50E-09	6.32E-09	3.02E-12	0.00E+00	7.83E-09	9.21E-10	2.91E-09	7.02E-13	0.00E+00	3.83E-09
1005	420202.43	3734007.83	1.08E-08	4.57E-08	2.01E-11	0.00E+00	5.65E-08	1.48E-09	6.25E-09	2.99E-12	0.00E+00	7.73E-09	9.10E-10	2.87E-09	6.93E-13	0.00E+00	3.78E-09
1006	420206.86	3733999.06	1.07E-08	4.51E-08	1.98E-11	0.00E+00	5.58E-08	1.46E-09	6.17E-09	2.95E-12	0.00E+00	7.63E-09	8.98E-10	2.83E-09	6.84E-13	0.00E+00	3.73E-09
1007	420211.29	3733990.28	1.05E-08	4.44E-08	1.95E-11	0.00E+00	5.50E-08	1.44E-09	6.08E-09	2.90E-12	0.00E+00	7.52E-09	8.85E-10	2.79E-09	6.74E-13	0.00E+00	3.68E-09
1008	420215.72	3733981.5	1.04E-08	4.37E-08	1.92E-11	0.00E+00	5.41E-08	1.42E-09	5.98E-09	2.86E-12	0.00E+00	7.40E-09	8.71E-10	2.75E-09	6.64E-13	0.00E+00	3.62E-09

1009	420220.15	3733972.73	1.02E-08	4.30E-08	1.89E-11	0.00E+00	5.32E-08	1.40E-09	5.88E-09	2.81E-12	0.00E+00	7.28E-09	8.57E-10	2.70E-09	6.52E-13	0.00E+00	3.56E-09
1010	420224.57	3733963.95	1.00E-08	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.77E-09	2.76E-12	0.00E+00	7.15E-09	8.41E-10	2.65E-09	6.41E-13	0.00E+00	3.50E-09
1011	420229	3733955.17	9.82E-09	4.14E-08	1.82E-11	0.00E+00	5.13E-08	1.35E-09	5.67E-09	2.71E-12	0.00E+00	7.02E-09	8.26E-10	2.60E-09	6.29E-13	0.00E+00	3.43E-09
1012	420260	3733893.73	8.41E-09	3.55E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.01E-09	7.08E-10	2.23E-09	5.39E-13	0.00E+00	2.94E-09
1013	420264.43	3733884.96	8.21E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.74E-09	2.27E-12	0.00E+00	5.87E-09	6.91E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
1014	420268.86	3733876.18	8.01E-09	3.38E-08	1.48E-11	0.00E+00	4.18E-08	1.10E-09	4.62E-09	2.21E-12	0.00E+00	5.72E-09	6.74E-10	2.13E-09	5.13E-13	0.00E+00	2.80E-09
1015	420273.29	3733867.4	7.81E-09	3.30E-08	1.45E-11	0.00E+00	4.08E-08	1.07E-09	4.51E-09	2.15E-12	0.00E+00	5.58E-09	6.57E-10	2.07E-09	5.00E-13	0.00E+00	2.73E-09
1016	420277.72	3733858.63	7.62E-09	3.22E-08	1.41E-11	0.00E+00	3.98E-08	1.04E-09	4.40E-09	2.10E-12	0.00E+00	5.44E-09	6.41E-10	2.02E-09	4.88E-13	0.00E+00	2.66E-09
1017	420282.15	3733849.85	7.42E-09	3.13E-08	1.38E-11	0.00E+00	3.88E-08	1.02E-09	4.29E-09	2.05E-12	0.00E+00	5.31E-09	6.25E-10	1.97E-09	4.76E-13	0.00E+00	2.60E-09
1018	420286.58	3733841.07	7.24E-09	3.06E-08	1.34E-11	0.00E+00	3.78E-08	9.92E-10	4.18E-09	2.00E-12	0.00E+00	5.17E-09	6.09E-10	1.92E-09	4.64E-13	0.00E+00	2.53E-09
1019	420299.86	3733814.74	6.71E-09	2.83E-08	1.24E-11	0.00E+00	3.51E-08	9.20E-10	3.87E-09	1.85E-12	0.00E+00	4.80E-09	5.64E-10	1.78E-09	4.30E-13	0.00E+00	2.35E-09
1020	420304.29	3733805.97	6.54E-09	2.76E-08	1.21E-11	0.00E+00	3.42E-08	8.97E-10	3.78E-09	1.81E-12	0.00E+00	4.68E-09	5.50E-10	1.74E-09	4.19E-13	0.00E+00	2.29E-09
1021	420308.72	3733797.19	6.38E-09	2.70E-08	1.18E-11	0.00E+00	3.33E-08	8.75E-10	3.69E-09	1.76E-12	0.00E+00	4.56E-09	5.37E-10	1.69E-09	4.09E-13	0.00E+00	2.23E-09
1022	420313.15	3733788.41	6.23E-09	2.63E-08	1.15E-11	0.00E+00	3.25E-08	8.54E-10	3.60E-09	1.72E-12	0.00E+00	4.45E-09	5.24E-10	1.65E-09	3.99E-13	0.00E+00	2.18E-09
1023	420317.58	3733779.64	6.08E-09	2.57E-08	1.13E-11	0.00E+00	3.18E-08	8.34E-10	3.51E-09	1.68E-12	0.00E+00	4.35E-09	5.12E-10	1.61E-09	3.90E-13	0.00E+00	2.13E-09
1024	420322	3733770.86	5.94E-09	2.51E-08	1.10E-11	0.00E+00	3.10E-08	8.14E-10	3.43E-09	1.64E-12	0.00E+00	4.24E-09	4.99E-10	1.58E-09	3.80E-13	0.00E+00	2.08E-09
1025	420336.11	3733760.35	5.78E-09	2.44E-08	1.07E-11	0.00E+00	3.02E-08	7.92E-10	3.34E-09	1.59E-12	0.00E+00	4.13E-09	4.86E-10	1.53E-09	3.70E-13	0.00E+00	2.02E-09
1026	420345.79	3733758.62	5.76E-09	2.43E-08	1.07E-11	0.00E+00	3.01E-08	7.89E-10	3.32E-09	1.59E-12	0.00E+00	4.12E-09	4.84E-10	1.53E-09	3.69E-13	0.00E+00	2.01E-09
1027	420355.46	3733756.89	5.74E-09	2.42E-08	1.06E-11	0.00E+00	3.00E-08	7.87E-10	3.31E-09	1.58E-12	0.00E+00	4.10E-09	4.83E-10	1.52E-09	3.68E-13	0.00E+00	2.01E-09
1028	420365.14	3733755.16	5.72E-09	2.42E-08	1.06E-11	0.00E+00	2.99E-08	7.85E-10	3.30E-09	1.58E-12	0.00E+00	4.09E-09	4.82E-10	1.52E-09	3.67E-13	0.00E+00	2.00E-09
1029	420384.5	3733751.7	5.69E-09	2.40E-08	1.05E-11	0.00E+00	2.97E-08	7.80E-10	3.29E-09	1.57E-12	0.00E+00	4.07E-09	4.79E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
1030	420394.17	3733749.97	5.68E-09	2.40E-08	1.05E-11	0.00E+00	2.97E-08	7.78E-10	3.28E-09	1.57E-12	0.00E+00	4.06E-09	4.78E-10	1.51E-09	3.64E-13	0.00E+00	1.99E-09
1031	420403.85	3733748.23	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1032	420413.53	3733746.5	5.66E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.76E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.76E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1033	420423.21	3733744.77	5.65E-09	2.39E-08	1.05E-11	0.00E+00	2.95E-08	7.75E-10	3.27E-09	1.56E-12	0.00E+00	4.04E-09	4.76E-10	1.50E-09	3.62E-13	0.00E+00	1.98E-09
1034	420432.88	3733743.04	5.65E-09	2.39E-08	1.05E-11	0.00E+00	2.95E-08	7.75E-10	3.26E-09	1.56E-12	0.00E+00	4.04E-09	4.75E-10	1.50E-09	3.62E-13	0.00E+00	1.98E-09
1035	420442.56	3733741.31	5.65E-09	2.38E-08	1.05E-11	0.00E+00	2.95E-08	7.74E-10	3.26E-09	1.56E-12	0.00E+00	4.04E-09	4.75E-10	1.50E-09	3.62E-13	0.00E+00	1.97E-09
1036	420452.24	3733739.58	5.65E-09	2.38E-08	1.05E-11	0.00E+00	2.95E-08	7.74E-10	3.26E-09	1.56E-12	0.00E+00	4.04E-09	4.75E-10	1.50E-09	3.62E-13	0.00E+00	1.97E-09
1037	420461.91	3733737.85	5.65E-09	2.39E-08	1.05E-11	0.00E+00	2.95E-08	7.75E-10	3.26E-09	1.56E-12	0.00E+00	4.04E-09	4.75E-10	1.50E-09	3.62E-13	0.00E+00	1.98E-09
1038	420471.59	3733736.12	5.65E-09	2.39E-08	1.05E-11	0.00E+00	2.95E-08	7.75E-10	3.27E-09	1.56E-12	0.00E+00	4.04E-09	4.76E-10	1.50E-09	3.62E-13	0.00E+00	1.98E-09
1039	420481.27	3733734.39	5.66E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.76E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.76E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1040	420490.95	3733732.66	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1041	420500.62	3733730.93	5.68E-09	2.40E-08	1.05E-11	0.00E+00	2.97E-08	7.79E-10	3.28E-09	1.57E-12	0.00E+00	4.06E-09	4.78E-10	1.51E-09	3.64E-13	0.00E+00	1.99E-09
1042	420510.3	3733729.19	5.69E-09	2.40E-08	1.05E-11	0.00E+00	2.97E-08	7.80E-10	3.29E-09	1.57E-12	0.00E+00	4.07E-09	4.79E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
1043	420519.98	3733727.46	5.71E-09	2.41E-08	1.06E-11	0.00E+00	2.98E-08	7.82E-10	3.29E-09	1.57E-12	0.00E+00	4.08E-09	4.80E-10	1.51E-09	3.66E-13	0.00E+00	1.99E-09
1044	420529.66	3733725.73	5.72E-09	2.42E-08	1.06E-11	0.00E+00	2.99E-08	7.85E-10	3.30E-09	1.58E-12	0.00E+00	4.09E-09	4.82E-10	1.52E-09	3.67E-13	0.00E+00	2.00E-09
1045	420539.33	3733724	5.74E-09	2.42E-08	1.06E-11	0.00E+00	3.00E-08	7.87E-10	3.31E-09	1.58E-12	0.00E+00	4.10E-09	4.83E-10	1.52E-09	3.68E-13	0.00E+00	2.01E-09
1046	420549.01	3733722.27	5.76E-09	2.43E-08	1.07E-11	0.00E+00	3.01E-08	7.90E-10	3.33E-09	1.59E-12	0.00E+00	4.12E-09	4.85E-10	1.53E-09	3.69E-13	0.00E+00	2.01E-09
1047	420558.69	3733720.54	5.78E-09	2.44E-08	1.07E-11	0.00E+00	3.02E-08	7.93E-10	3.34E-09	1.60E-12	0.00E+00	4.13E-09	4.86E-10	1.53E-09	3.70E-13	0.00E+00	2.02E-09
1048	420568.36	3733718.81	5.80E-09	2.45E-08	1.08E-11	0.00E+00	3.03E-08	7.95E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.88E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
1049	420578.04	3733717.08	5.83E-09	2.46E-08	1.08E-11	0.00E+00	3.04E-08	7.99E-10	3.36E-09	1.61E-12	0.00E+00	4.16E-09	4.90E-10	1.55E-09	3.73E-13	0.00E+00	2.04E-09
1050	420587.72	3733715.35	5.85E-09	2.47E-08	1.08E-11	0.00E+00	3.05E-08	8.02E-10	3.38E-09	1.61E-12	0.00E+00	4.18E-09	4.92E-10	1.55E-09	3.75E-13	0.00E+00	2.04E-09
1051	420597.4	3733713.62	5.87E-09	2.48E-08	1.09E-11	0.00E+00	3.07E-08	8.05E-10	3.39E-09	1.62E-12	0.00E+00	4.20E-09	4.94E-10	1.56E-09	3.76E-13	0.00E+00	2.05E-09
1052	420607.07	3733711.89	5.90E-09	2.49E-08	1.09E-11	0.00E+00	3.08E-08	8.08E-10	3.40E-09	1.63E-12	0.00E+00	4.21E-09	4.96E-10	1.56E-09	3.78E-13	0.00E+00	2.06E-09
1053	420616.75	3733710.15	5.92E-09	2.50E-08	1.10E-11	0.00E+00	3.09E-08	8.11E-10	3.42E-09	1.63E-12	0.00E+00	4.23E-09	4.98E-10	1.57E-09	3.79E-13	0.00E+00	2.07E-09
1054	420626.43	3733708.42	5.94E-09	2.51E-08	1.10E-11	0.00E+00	3.10E-08	8.14E-10	3.43E-09	1.64E-12	0.00E+00	4.25E-09	5.00E-10	1.58E-09	3.81E-13	0.00E+00	2.08E-09
1055	420665.14	3733701.5	6.02E-09	2.54E-08	1.12E-11	0.00E+00	3.15E-08	8.26E-10	3.48E-09	1.66E-12	0.00E+00	4.30E-09	5.07E-10	1.60E-09	3.86E-13	0.00E+00	2.11E-09
1056	420674.81	3733699.77	6.04E-09	2.55E-08	1.12E-11	0.00E+00	3.16E-08	8.28E-10	3.49E-09	1.67E-12	0.00E+00	4.32E-09	5.08E-10	1.60E-09	3.87E-13	0.00E+00	2.11E-09
1057	420684.49	3733698.04	6.06E-09	2.56E-08	1.12E-11	0.00E+00	3.17E-08	8.31E-10	3.50E-09	1.67E-12	0.00E+00	4.33E-09	5.10E-10	1.61E-09	3.88E-13	0.00E+00	2.12E-09
1058	420694.17	3733696.31	6.08E-09	2.57E-08	1.13E-11	0.00E+00	3.17E-08	8.33E-10	3.51E-09	1.68E-12	0.00E+00	4.34E-09	5.11E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
1059	420703.85	3733694.58	6.09E-09	2.57E-08	1.13E-11	0.00E+00	3.18E-08	8.35E-10	3.52E-09	1.68E-12	0.00E+00	4.35E-09	5.12E-10	1.62E-09	3.90E-13	0.00E+00	2.13E-09
1060	420713.52	3733692.85	6.10E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.37E-10	3.52E-09	1.68E-12	0.00E+00	4.36E-09	5.14E-10	1.62E-09	3.91E-13	0.00E+00	2.13E-09
1061	420723.2	3733691.11	6.12E-09	2.58E-08	1.13E-11	0.00E+00	3.20E-08	8.39E-10	3.53E-09	1.69E-12	0.00E+00	4.37E-09	5.15E-10	1.62E-09	3.92E-13	0.00E+00	2.14E-09
1062	420732.88	3733689.38	6.13E-09	2.59E-08	1.14E-11	0.00E+00	3.20E-08	8.40E-10	3.54E-09	1.69E-12	0.00E+00	4.38E-09	5.16E-10	1.63E-09	3.93E-13	0.00E+00	2.14E-09
1063	420742.56	3733687.65	6.14E-09	2.59E-08	1.14E-11	0.00E+00	3.21E-08	8.42E-10	3.54E-09	1.69E-12	0.00E+00	4.39E-09	5.16E-10	1.63E-09	3.93E-13	0.00E+00	2.15E-09
1064	420752.23	3733685.92	6.15E-09	2.60E-08	1.14E-11	0.00E+00	3.21E-08	8.43E-10	3.55E-09	1.70E-12	0.00E+00	4.40E-09	5.17E-10	1.63E-09	3.94E-13	0.00E+00	2.15E-09
1065	420761.91	3733684.19	6.15E-09	2.60E-08	1.14E-11	0.00E+00	3.21E-08	8.43E-10	3.55E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.94E-13	0.00E+00	2.15E-09
1066	420771.59	3733682.46	6.16E-09	2.60E-08	1.14E-11	0.00E+00	3.22E-08	8.44E-10	3.56E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.95E-13	0.00E+00	2.15E-09
1067	420781.26	3733680.73	6.16E-09	2.60E-08	1.14E-11	0.00E+00	3.22E-08	8.44E-10	3.56E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.95E-13	0.00E+00	2.15E-09
1068	420790.94	3733679	6.16E-09	2.60E-08	1.14E-11	0.00E+00	3.22E-08	8.44E-10	3.56E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.95E-13	0.00E+00	2.15E-09
1069	420800.62	3733677.27	6.16E-09	2.60E-08	1.14E-11	0.00E+00	3.22E-08	8.44E-10	3.56E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.95E-13	0.00E+00	2.15E-09
1070	420810.3	3733675.54	6.16E-09	2.60E-08	1.14E-11	0.00E+00	3.22E-08	8.44E-10	3.55E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.94E-13	0.00E+00	2.15E-09
1071	420819.97	3733673.81	6.15E-09	2.60E-08	1.14E-11	0.00E+00	3.21E-08	8.43E-10	3.55E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.94E-13	0.00E+00	2.15E-09
1072	420829.65	3733672.07	6.15E-09	2.60E-08	1.14E-11	0.00E+00	3.21E-08	8.43E-10	3.55E-09	1.70E-12	0.00E+00	4.40E-09	5.17E-10	1.63E-09	3.94E-13	0.00E+00	2.15E-09
1073	420839.33	3733670.34	6.14E-09	2.59E-08	1.14E-11	0.00E+00	3.21E-08	8.42E-10	3.54E-09	1.69E-12	0.00E+00	4.39E-09	5.16E-10	1.63E-09	3.93E-13	0.00E+00	2.15E-09
1074	420849.01	3733668.61	6.13E-09	2.59E-08	1.14E-11	0.00E+00	3.20E-08	8.40E-10	3.54E-09	1.69E-12	0.00E+00	4.38E-09	5.16E-10	1.63E-09	3.93E-13	0.00E+00	2.14E-09
1075	420858.68	3733666.88	6.12E-09	2.58E-08	1.13E-11	0.00E+00	3.20E-08	8.39E-10	3.53E-09	1.69E-12	0.00E+00	4.37E-09	5.15E-10	1.62E-09	3.92E-13	0.00E+00	2.14E-09
1076	420868.36	3733665.15	6.10E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.37E-10	3.52E-09	1.68E-12	0.00E+00	4.36E-09	5.14E-10	1.62E-09	3.91E-13	0.00E+00	2.13E-09
1077	420878.04	3733663.42	6.09E-09	2.57E-08	1.13E-11	0.00E+00	3.18E-08	8.35E-10	3.52E-09	1.68E-12	0.00E+00	4.35E-09	5.12E-10	1.62E-09	3.90E-13	0.00E+00	2.13E-09
1078	420887.71	3733661.69	6.08E-09	2.57E-08	1.13E-11	0.00E+00	3.17E-08	8.33E-10	3.51E-09	1.68E-12	0.00E+00	4.34E-09	5.11E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
1079	420897.39	3733659.96	6.06E-09	2.56E-08	1.12E-11	0.00E+00	3.17E-08	8.31E-10	3.50E-09	1.67E-12	0.00E+00	4.33E-09	5.10E-10	1.61E-09	3.88E-13	0.00E+00	2.12E-09
1080	420060.72	3734288.69	8.26E-09	3.49E-08	1.53E-11	0.00E+00	4.31E-08	1.13E-09	4.77E-09	2.28E-12	0.00E+00	5.90E-09	6.95E-10	2.19E-09	5.29E-13	0.00E+00	2.89E-09
1081	420060.68	3734298.55	8.21E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.74E-09	2.26E-12	0.00E+00	5.87E-09	6.90E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
1082	420060.64	3734308.41	8.16E-09	3.45E-08	1.51E-11	0.00E+00	4.26E-08	1.12E-09	4.71E-09	2.25E-12	0.00E+00	5.83E-09	6.87E-10	2.17E-09	5.23E-13	0.00E+00	2.85E-09
1083	420060.6	3734318.27	8.12E-09	3.43E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.69E-09	2.24E-12	0.00E+00	5.80E-09	6.83E-10	2.15E-09	5.20E-13	0.00E+00	2.84E-09
1084	420060.56	3734328.13	8.07E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.66E-09	2.23E-12	0.00E+00	5.77E-09	6.79E-10	2.14E-09	5.17E-13	0.00E+00	2.82E-09
1085	420060.52	3734337.99	8.03E-09	3.39E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.64E-09	2.22E-12	0.00E+00	5.74E-09	6.75E-10	2.13E-09	5.14E-13	0.00E+00	2.81E-09
1086	420060.48	3734347.85	7.98E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.09E-09	4.61E-09	2.20E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.11E-13	0.00E+00	2.79E-09
1087	420060.44	3734357.71	7.94E-09	3.35E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.59E-09	2.19E-12	0.00E+00	5.68E-09	6.68E-10	2.11E-09	5.09E-13	0.00E+00	2.78E-09
1088	420060.4	3734367.57	7.90E-09	3.34E-08	1.46E-11	0.00E+00	4.13E-08	1.08E-09	4.56E-09	2.18E-12	0.00E+00	5.65E-09	6.65E-10	2.10E-09	5.06E-13	0.00E+00	2.76E-09
1089	420042.73	3734244.9	7.95E-09	3.36E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.59E-09	2.19E-12	0.00E+00	5.68E-09	6.69E-10	2.11E-09	5.09E-13	0.00E+00	2.78E-09
1090	420047.14	3734236.17	8.11E-09	3.42E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.68E-09	2.24E-12	0.00E+00	5.79E-09	6.82E-10	2.15E-09	5.19E-13	0.00E+00	2.83E-09
1091	420051.54	3734227.44	8.27E-09	3.49E-08	1.53E-11	0.00E+00	4.32E-08	1.13E-09	4.77E-09	2.28E-12	0.00E+00	5.91E-09	6.95E-10	2.19E-09	5.30E-13	0.00E+00	2.89E-09
1092	420055.94	3734218.71	8.42E-09	3.56E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.02E-09	7.09E-10	2.24E-09	5.40E-13	0.00E+00	2.94E-09
1093	420060.35	3734209.99	8.58E-09	3.62E-08	1.59E-11	0.00E+00	4.48E-08	1.18E-09	4.96E-09	2.37E-12	0.00E+00	6.13E-09	7.22E-10	2.28E-09	5.50E-13	0.00E+00	3.00E-09
1094	420064.75	3734201.26	8.74E-09	3.69E-08	1.62E-11	0.00E+00	4.57E-08	1.20E-09	5.05E-09	2.41E-12	0.00E+00	6.25E-09	7.35E-10	2.32E-09	5.60E-13	0.00E+00	3.06E-09
1095	420069.15	3734192.53	8.89E-09	3.76E-08	1.65E-11	0.00E+00	4.65E-08	1.22E-09	5.14E-09	2.45E-12	0.00E+00	6.36E-09	7.48E-10	2.36E-09	5.70E-13	0.00E+00	3.11E-09
1096	420073.56	3734183.81	9.05E-09	3.82E-08	1.68E-11	0.00E+00	4.73E-08	1.24E-09	5.22E-09	2.50E-12	0.00E+00	6.47E-09	7.61E-10	2.40E-09	5.79E-13	0.00E+00	3.16E-09
1097	420077.96	3734175.08	9.19E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.73E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
1098	420091.17	3734148.9	9.61E-09	4.06E-08	1.78E-11	0.00E+00	5.02E-08	1.32E-09	5.55E-09	2.65E-12	0.00E+00	6.87E-09	8.08E-10	2.55E-09	6.16E-13	0.00E+00	3.36E-09
1099	420095.57	3734140.17	9.73E-09	4.11E-08	1.80E-11	0.00E+00	5.08E-08	1.33E-09	5.62E-09	2.69E-12	0.00E+00	6.96E-09	8.19E-10	2.58E-09	6.23E-13	0.00E+00	3.40E-09
1100	420099.98	3734131.44	9.85E-09	4.16E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.69E-09	2.72E-12	0.00E+00	7.04E-09	8.28E-10	2.61E-09	6.31E-13	0.00E+00	3.44E-09

1101	420104.38	3734122.72	9.95E-09	4.20E-08	1.84E-11	0.00E+00	5.20E-08	1.36E-09	5.74E-09	2.75E-12	0.00E+00	7.11E-09	8.37E-10	2.64E-09	6.37E-13	0.00E+00	3.48E-09
1102	420108.79	3734113.99	1.00E-08	4.24E-08	1.86E-11	0.00E+00	5.24E-08	1.38E-09	5.80E-09	2.77E-12	0.00E+00	7.18E-09	8.45E-10	2.66E-09	6.43E-13	0.00E+00	3.51E-09
1103	420113.19	3734105.26	1.01E-08	4.27E-08	1.87E-11	0.00E+00	5.29E-08	1.39E-09	5.84E-09	2.79E-12	0.00E+00	7.23E-09	8.51E-10	2.68E-09	6.48E-13	0.00E+00	3.54E-09
1104	420117.59	3734096.54	1.02E-08	4.30E-08	1.89E-11	0.00E+00	5.32E-08	1.40E-09	5.88E-09	2.81E-12	0.00E+00	7.28E-09	8.56E-10	2.70E-09	6.52E-13	0.00E+00	3.56E-09
1105	420122	3734087.81	1.02E-08	4.32E-08	1.90E-11	0.00E+00	5.34E-08	1.40E-09	5.91E-09	2.82E-12	0.00E+00	7.31E-09	8.61E-10	2.72E-09	6.55E-13	0.00E+00	3.58E-09
1106	420126.4	3734079.08	1.03E-08	4.33E-08	1.90E-11	0.00E+00	5.36E-08	1.41E-09	5.93E-09	2.83E-12	0.00E+00	7.34E-09	8.64E-10	2.72E-09	6.58E-13	0.00E+00	3.59E-09
1107	420152.82	3734026.72	1.02E-08	4.29E-08	1.88E-11	0.00E+00	5.31E-08	1.39E-09	5.87E-09	2.81E-12	0.00E+00	7.27E-09	8.56E-10	2.70E-09	6.51E-13	0.00E+00	3.55E-09
1108	420157.22	3734017.99	1.01E-08	4.27E-08	1.87E-11	0.00E+00	5.28E-08	1.39E-09	5.84E-09	2.79E-12	0.00E+00	7.22E-09	8.50E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
1109	420161.63	3734009.27	1.00E-08	4.23E-08	1.86E-11	0.00E+00	5.24E-08	1.37E-09	5.79E-09	2.77E-12	0.00E+00	7.17E-09	8.44E-10	2.66E-09	6.42E-13	0.00E+00	3.51E-09
1110	420166.03	3734000.54	9.94E-09	4.20E-08	1.84E-11	0.00E+00	5.19E-08	1.36E-09	5.74E-09	2.74E-12	0.00E+00	7.10E-09	8.36E-10	2.64E-09	6.37E-13	0.00E+00	3.47E-09
1111	420170.43	3733991.81	9.84E-09	4.15E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.72E-12	0.00E+00	7.03E-09	8.28E-10	2.61E-09	6.30E-13	0.00E+00	3.44E-09
1112	420174.84	3733983.09	9.73E-09	4.11E-08	1.80E-11	0.00E+00	5.08E-08	1.33E-09	5.62E-09	2.68E-12	0.00E+00	6.95E-09	8.18E-10	2.58E-09	6.23E-13	0.00E+00	3.40E-09
1113	420179.24	3733974.36	9.61E-09	4.06E-08	1.78E-11	0.00E+00	5.02E-08	1.32E-09	5.55E-09	2.65E-12	0.00E+00	6.87E-09	8.08E-10	2.55E-09	6.15E-13	0.00E+00	3.36E-09
1114	420183.64	3733965.63	9.48E-09	4.00E-08	1.76E-11	0.00E+00	4.95E-08	1.30E-09	5.47E-09	2.62E-12	0.00E+00	6.77E-09	7.97E-10	2.52E-09	6.07E-13	0.00E+00	3.31E-09
1115	420188.05	3733956.91	9.34E-09	3.94E-08	1.73E-11	0.00E+00	4.88E-08	1.28E-09	5.39E-09	2.58E-12	0.00E+00	6.68E-09	7.86E-10	2.48E-09	5.98E-13	0.00E+00	3.27E-09
1116	420205.66	3733922	8.73E-09	3.69E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.35E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
1117	420210.06	3733913.27	8.57E-09	3.62E-08	1.59E-11	0.00E+00	4.48E-08	1.17E-09	4.95E-09	2.36E-12	0.00E+00	6.12E-09	7.21E-10	2.27E-09	5.49E-13	0.00E+00	3.00E-09
1118	420214.47	3733904.54	8.40E-09	3.55E-08	1.56E-11	0.00E+00	4.39E-08	1.15E-09	4.85E-09	2.32E-12	0.00E+00	6.01E-09	7.07E-10	2.23E-09	5.38E-13	0.00E+00	2.94E-09
1119	420218.87	3733895.82	8.23E-09	3.48E-08	1.53E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.89E-09	6.93E-10	2.19E-09	5.28E-13	0.00E+00	2.88E-09
1120	420223.28	3733887.09	8.06E-09	3.40E-08	1.49E-11	0.00E+00	4.21E-08	1.11E-09	4.66E-09	2.22E-12	0.00E+00	5.76E-09	6.78E-10	2.14E-09	5.17E-13	0.00E+00	2.82E-09
1121	420227.68	3733878.36	7.89E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.56E-09	2.18E-12	0.00E+00	5.64E-09	6.64E-10	2.09E-09	5.06E-13	0.00E+00	2.76E-09
1122	420232.08	3733869.64	7.72E-09	3.26E-08	1.43E-11	0.00E+00	4.03E-08	1.06E-09	4.46E-09	2.13E-12	0.00E+00	5.52E-09	6.49E-10	2.05E-09	4.95E-13	0.00E+00	2.70E-09
1123	420236.49	3733860.91	7.55E-09	3.19E-08	1.40E-11	0.00E+00	3.94E-08	1.03E-09	4.36E-09	2.08E-12	0.00E+00	5.39E-09	6.35E-10	2.00E-09	4.84E-13	0.00E+00	2.64E-09
1124	420240.89	3733852.18	7.38E-09	3.11E-08	1.37E-11	0.00E+00	3.85E-08	1.01E-09	4.26E-09	2.04E-12	0.00E+00	5.27E-09	6.21E-10	1.96E-09	4.72E-13	0.00E+00	2.58E-09
1125	420262.91	3733808.55	6.55E-09	2.77E-08	1.21E-11	0.00E+00	3.42E-08	8.99E-10	3.78E-09	1.81E-12	0.00E+00	4.69E-09	5.51E-10	1.74E-09	4.20E-13	0.00E+00	2.29E-09
1126	420267.31	3733799.82	6.40E-09	2.70E-08	1.19E-11	0.00E+00	3.34E-08	8.77E-10	3.70E-09	1.77E-12	0.00E+00	4.57E-09	5.38E-10	1.70E-09	4.10E-13	0.00E+00	2.24E-09
1127	420271.71	3733791.09	6.25E-09	2.64E-08	1.16E-11	0.00E+00	3.27E-08	8.57E-10	3.61E-09	1.73E-12	0.00E+00	4.47E-09	5.26E-10	1.66E-09	4.01E-13	0.00E+00	2.19E-09
1128	420276.12	3733782.37	6.10E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.37E-10	3.52E-09	1.68E-12	0.00E+00	4.36E-09	5.14E-10	1.62E-09	3.91E-13	0.00E+00	2.13E-09
1129	420280.52	3733773.64	5.96E-09	2.52E-08	1.11E-11	0.00E+00	3.12E-08	8.18E-10	3.44E-09	1.65E-12	0.00E+00	4.26E-09	5.02E-10	1.58E-09	3.82E-13	0.00E+00	2.08E-09
1130	420284.92	3733764.91	5.83E-09	2.46E-08	1.08E-11	0.00E+00	3.05E-08	7.99E-10	3.37E-09	1.61E-12	0.00E+00	4.17E-09	4.90E-10	1.55E-09	3.73E-13	0.00E+00	2.04E-09
1131	420289.33	3733756.19	5.70E-09	2.41E-08	1.06E-11	0.00E+00	2.98E-08	7.81E-10	3.29E-09	1.57E-12	0.00E+00	4.07E-09	4.79E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
1132	420293.73	3733747.46	5.57E-09	2.35E-08	1.03E-11	0.00E+00	2.91E-08	7.63E-10	3.22E-09	1.54E-12	0.00E+00	3.98E-09	4.69E-10	1.48E-09	3.57E-13	0.00E+00	1.95E-09
1133	420298.13	3733738.73	5.45E-09	2.30E-08	1.01E-11	0.00E+00	2.84E-08	7.46E-10	3.14E-09	1.50E-12	0.00E+00	3.89E-09	4.58E-10	1.45E-09	3.49E-13	0.00E+00	1.90E-09
1134	420312.16	3733728.28	5.31E-09	2.24E-08	9.83E-12	0.00E+00	2.77E-08	7.28E-10	3.06E-09	1.46E-12	0.00E+00	3.79E-09	4.47E-10	1.41E-09	3.40E-13	0.00E+00	1.86E-09
1135	420321.78	3733726.56	5.29E-09	2.23E-08	9.80E-12	0.00E+00	2.76E-08	7.25E-10	3.05E-09	1.46E-12	0.00E+00	3.78E-09	4.45E-10	1.40E-09	3.39E-13	0.00E+00	1.85E-09
1136	420331.4	3733724.84	5.27E-09	2.23E-08	9.76E-12	0.00E+00	2.75E-08	7.22E-10	3.04E-09	1.45E-12	0.00E+00	3.77E-09	4.43E-10	1.40E-09	3.38E-13	0.00E+00	1.84E-09
1137	420341.03	3733723.12	5.25E-09	2.22E-08	9.73E-12	0.00E+00	2.74E-08	7.20E-10	3.03E-09	1.45E-12	0.00E+00	3.75E-09	4.42E-10	1.39E-09	3.36E-13	0.00E+00	1.84E-09
1138	420350.65	3733721.4	5.24E-09	2.21E-08	9.71E-12	0.00E+00	2.74E-08	7.18E-10	3.03E-09	1.45E-12	0.00E+00	3.74E-09	4.41E-10	1.39E-09	3.36E-13	0.00E+00	1.83E-09
1139	420360.27	3733719.68	5.23E-09	2.21E-08	9.68E-12	0.00E+00	2.73E-08	7.16E-10	3.02E-09	1.44E-12	0.00E+00	3.73E-09	4.40E-10	1.39E-09	3.35E-13	0.00E+00	1.83E-09
1140	420389.14	3733714.51	5.19E-09	2.19E-08	9.62E-12	0.00E+00	2.71E-08	7.12E-10	3.00E-09	1.43E-12	0.00E+00	3.71E-09	4.37E-10	1.38E-09	3.33E-13	0.00E+00	1.82E-09
1141	420398.76	3733712.79	5.18E-09	2.19E-08	9.61E-12	0.00E+00	2.71E-08	7.11E-10	2.99E-09	1.43E-12	0.00E+00	3.71E-09	4.36E-10	1.38E-09	3.32E-13	0.00E+00	1.81E-09
1142	420408.38	3733711.07	5.18E-09	2.19E-08	9.60E-12	0.00E+00	2.71E-08	7.10E-10	2.99E-09	1.43E-12	0.00E+00	3.70E-09	4.36E-10	1.37E-09	3.32E-13	0.00E+00	1.81E-09
1143	420418	3733709.35	5.18E-09	2.19E-08	9.59E-12	0.00E+00	2.70E-08	7.10E-10	2.99E-09	1.43E-12	0.00E+00	3.70E-09	4.36E-10	1.37E-09	3.32E-13	0.00E+00	1.81E-09
1144	420427.63	3733707.63	5.17E-09	2.18E-08	9.59E-12	0.00E+00	2.70E-08	7.09E-10	2.99E-09	1.43E-12	0.00E+00	3.70E-09	4.35E-10	1.37E-09	3.31E-13	0.00E+00	1.81E-09
1145	420437.25	3733705.91	5.17E-09	2.18E-08	9.59E-12	0.00E+00	2.70E-08	7.09E-10	2.99E-09	1.43E-12	0.00E+00	3.70E-09	4.35E-10	1.37E-09	3.31E-13	0.00E+00	1.81E-09
1146	420446.87	3733704.19	5.18E-09	2.19E-08	9.59E-12	0.00E+00	2.70E-08	7.10E-10	2.99E-09	1.43E-12	0.00E+00	3.70E-09	4.36E-10	1.37E-09	3.32E-13	0.00E+00	1.81E-09
1147	420456.49	3733702.47	5.18E-09	2.19E-08	9.60E-12	0.00E+00	2.71E-08	7.10E-10	2.99E-09	1.43E-12	0.00E+00	3.70E-09	4.36E-10	1.37E-09	3.32E-13	0.00E+00	1.81E-09
1148	420466.12	3733700.75	5.18E-09	2.19E-08	9.61E-12	0.00E+00	2.71E-08	7.11E-10	2.99E-09	1.43E-12	0.00E+00	3.71E-09	4.36E-10	1.38E-09	3.32E-13	0.00E+00	1.81E-09
1149	420475.74	3733699.02	5.19E-09	2.19E-08	9.62E-12	0.00E+00	2.71E-08	7.12E-10	3.00E-09	1.43E-12	0.00E+00	3.71E-09	4.37E-10	1.38E-09	3.33E-13	0.00E+00	1.82E-09
1150	420485.36	3733697.3	5.20E-09	2.20E-08	9.64E-12	0.00E+00	2.72E-08	7.13E-10	3.00E-09	1.44E-12	0.00E+00	3.72E-09	4.38E-10	1.38E-09	3.33E-13	0.00E+00	1.82E-09
1151	420494.98	3733695.58	5.22E-09	2.20E-08	9.66E-12	0.00E+00	2.72E-08	7.15E-10	3.01E-09	1.44E-12	0.00E+00	3.73E-09	4.39E-10	1.38E-09	3.34E-13	0.00E+00	1.82E-09
1152	420504.61	3733693.86	5.23E-09	2.21E-08	9.68E-12	0.00E+00	2.73E-08	7.16E-10	3.02E-09	1.44E-12	0.00E+00	3.73E-09	4.40E-10	1.39E-09	3.35E-13	0.00E+00	1.83E-09
1153	420514.23	3733692.14	5.24E-09	2.21E-08	9.71E-12	0.00E+00	2.74E-08	7.18E-10	3.03E-09	1.45E-12	0.00E+00	3.74E-09	4.41E-10	1.39E-09	3.36E-13	0.00E+00	1.83E-09
1154	420523.85	3733690.42	5.25E-09	2.22E-08	9.73E-12	0.00E+00	2.74E-08	7.20E-10	3.03E-09	1.45E-12	0.00E+00	3.75E-09	4.42E-10	1.39E-09	3.36E-13	0.00E+00	1.84E-09
1155	420533.47	3733688.7	5.27E-09	2.23E-08	9.76E-12	0.00E+00	2.75E-08	7.22E-10	3.04E-09	1.45E-12	0.00E+00	3.77E-09	4.43E-10	1.40E-09	3.38E-13	0.00E+00	1.84E-09
1156	420543.09	3733686.98	5.29E-09	2.23E-08	9.80E-12	0.00E+00	2.76E-08	7.25E-10	3.05E-09	1.46E-12	0.00E+00	3.78E-09	4.45E-10	1.40E-09	3.39E-13	0.00E+00	1.85E-09
1157	420552.72	3733685.26	5.31E-09	2.24E-08	9.83E-12	0.00E+00	2.77E-08	7.28E-10	3.06E-09	1.46E-12	0.00E+00	3.79E-09	4.47E-10	1.41E-09	3.40E-13	0.00E+00	1.86E-09
1158	420562.34	3733683.53	5.33E-09	2.25E-08	9.87E-12	0.00E+00	2.78E-08	7.30E-10	3.08E-09	1.47E-12	0.00E+00	3.81E-09	4.48E-10	1.41E-09	3.41E-13	0.00E+00	1.86E-09
1159	420571.96	3733681.81	5.35E-09	2.26E-08	9.90E-12	0.00E+00	2.79E-08	7.33E-10	3.09E-09	1.48E-12	0.00E+00	3.82E-09	4.50E-10	1.42E-09	3.42E-13	0.00E+00	1.87E-09
1160	420581.58	3733680.09	5.37E-09	2.27E-08	9.95E-12	0.00E+00	2.81E-08	7.36E-10	3.10E-09	1.48E-12	0.00E+00	3.84E-09	4.52E-10	1.42E-09	3.44E-13	0.00E+00	1.88E-09
1161	420591.21	3733678.37	5.39E-09	2.28E-08	9.99E-12	0.00E+00	2.82E-08	7.39E-10	3.11E-09	1.49E-12	0.00E+00	3.85E-09	4.53E-10	1.43E-09	3.45E-13	0.00E+00	1.88E-09
1162	420600.83	3733676.65	5.41E-09	2.28E-08	1.00E-11	0.00E+00	2.83E-08	7.42E-10	3.12E-09	1.49E-12	0.00E+00	3.87E-09	4.55E-10	1.44E-09	3.47E-13	0.00E+00	1.89E-09
1163	420610.45	3733674.93	5.43E-09	2.29E-08	1.01E-11	0.00E+00	2.84E-08	7.45E-10	3.14E-09	1.50E-12	0.00E+00	3.88E-09	4.57E-10	1.44E-09	3.48E-13	0.00E+00	1.90E-09
1164	420620.07	3733673.21	5.45E-09	2.30E-08	1.01E-11	0.00E+00	2.85E-08	7.47E-10	3.15E-09	1.50E-12	0.00E+00	3.90E-09	4.59E-10	1.45E-09	3.49E-13	0.00E+00	1.91E-09
1165	420629.7	3733671.49	5.47E-09	2.31E-08	1.01E-11	0.00E+00	2.86E-08	7.50E-10	3.16E-09	1.51E-12	0.00E+00	3.91E-09	4.60E-10	1.45E-09	3.51E-13	0.00E+00	1.91E-09
1166	420639.32	3733669.77	5.49E-09	2.32E-08	1.02E-11	0.00E+00	2.87E-08	7.53E-10	3.17E-09	1.51E-12	0.00E+00	3.92E-09	4.62E-10	1.46E-09	3.52E-13	0.00E+00	1.92E-09
1167	420677.81	3733662.88	5.57E-09	2.35E-08	1.03E-11	0.00E+00	2.91E-08	7.63E-10	3.21E-09	1.54E-12	0.00E+00	3.98E-09	4.68E-10	1.48E-09	3.57E-13	0.00E+00	1.95E-09
1168	420687.43	3733661.16	5.58E-09	2.36E-08	1.03E-11	0.00E+00	2.91E-08	7.65E-10	3.22E-09	1.54E-12	0.00E+00	3.99E-09	4.69E-10	1.48E-09	3.57E-13	0.00E+00	1.95E-09
1169	420697.05	3733659.44	5.59E-09	2.36E-08	1.04E-11	0.00E+00	2.92E-08	7.67E-10	3.23E-09	1.54E-12	0.00E+00	4.00E-09	4.71E-10	1.48E-09	3.58E-13	0.00E+00	1.96E-09
1170	420706.67	3733657.72	5.61E-09	2.37E-08	1.04E-11	0.00E+00	2.93E-08	7.69E-10	3.24E-09	1.55E-12	0.00E+00	4.01E-09	4.72E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
1171	420716.3	3733656	5.62E-09	2.37E-08	1.04E-11	0.00E+00	2.94E-08	7.70E-10	3.25E-09	1.55E-12	0.00E+00	4.02E-09	4.73E-10	1.49E-09	3.60E-13	0.00E+00	1.96E-09
1172	420725.92	3733654.28	5.63E-09	2.38E-08	1.04E-11	0.00E+00	2.94E-08	7.72E-10	3.25E-09	1.55E-12	0.00E+00	4.02E-09	4.74E-10	1.49E-09	3.61E-13	0.00E+00	1.97E-09
1173	420735.54	3733652.56	5.64E-09	2.38E-08	1.05E-11	0.00E+00	2.95E-08	7.73E-10	3.26E-09	1.56E-12	0.00E+00	4.03E-09	4.75E-10	1.50E-09	3.61E-13	0.00E+00	1.97E-09
1174	420745.16	3733650.83	5.65E-09	2.38E-08	1.05E-11	0.00E+00	2.95E-08	7.74E-10	3.26E-09	1.56E-12	0.00E+00	4.04E-09	4.75E-10	1.50E-09	3.62E-13	0.00E+00	1.97E-09
1175	420754.78	3733649.11	5.65E-09	2.39E-08	1.05E-11	0.00E+00	2.95E-08	7.75E-10	3.27E-09	1.56E-12	0.00E+00	4.04E-09	4.76E-10	1.50E-09	3.62E-13	0.00E+00	1.98E-09
1176	420764.41	3733647.39	5.66E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.76E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.76E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1177	420774.03	3733645.67	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1178	420783.65	3733643.95	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1179	420793.27	3733642.23	5.67E-09	2.40E-08	1.05E-11	0.00E+00	2.96E-08	7.78E-10	3.28E-09	1.57E-12	0.00E+00	4.05E-09	4.77E-10	1.51E-09	3.63E-13	0.00E+00	1.98E-09
1180	420802.9	3733640.51	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1181	420812.52	3733638.79	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1182	420822.14	3733637.07	5.67E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.77E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.77E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1183	420831.76	3733635.34	5.66E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.76E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.76E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
1184	420841.39	3733633.62	5.65E-09	2.39E-08	1.05E-11	0.00E+00	2.95E-08	7.75E-10	3.27E-09	1.56E-12	0.00E+00	4.04E-09	4.76E-10	1.50E-09	3.62E-13	0.00E+00	1.98E-09
1185	420851.01	3733631.9	5.65E-09	2.38E-08	1.05E-11	0.00E+00	2.95E-08	7.74E-10	3.26E-09	1.56E-12	0.00E+00	4.04E-09	4.75E-10	1.50E-09	3.62E-13	0.00E+00	1.97E-09
1186	420860.63	3733630.18	5.64E-09	2.38E-08	1.05E-11	0.00E+00	2.95E-08	7.73E-10	3.26E-09	1.56E-12	0.00E+00	4.03E-09	4.75E-10	1.50E-09	3.61E-13	0.00E+00	1.97E-09
1187	420870.25	3733628.46	5.63E-09	2.38E-08	1.04E-11	0.00E+00	2.94E-08	7.72E-10	3.25E-09	1.55E-12	0.00E+00	4.02E-09	4.74E-10	1.49E-09	3.61E-13	0.00E+00	1.97E-09
1188	420879.87	3733626.74	5.62E-09	2.37E-08	1.04E-11	0.00E+00	2.94E-08	7.70E-10	3.25E-09	1.55E-12	0.00E+00	4.02E-09	4.73E-10	1.49E-09	3.60E-13	0.00E+00	1.96E-09
1189	420889.5	3733625.02	5.61E-09	2.37E-08	1.04E-11	0.00E+00	2.93E-08	7.69E-10	3.24E-09	1.55E-12	0.00E+00	4.01E-09	4.72E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
1190	420899.12	3733623.3	5.60E-09	2.36E-08	1.04E-11	0.00E+00	2.92E-08	7.67E-10	3.23E-09	1.54E-12	0.00E+00	4.00E-09	4.71E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
1191	420908.74	3733621.58	5.58E-09	2.36E-08	1.03E-11	0.00E+00	2.92E-08	7.65E-10	3.22E-09	1.54E-12	0.00E+00	3.99E-09	4.70E-10	1.48E-09	3.58E-13	0.00E+00	1.95E-09
1192	420020.72	3734288.53	7.21E-09	3.04E-08	1.34E-11	0.00E+00	3.77E-08	9.89E-10	4.16E-09	1.99E-12	0.00E+00	5.15E-09	6.07E-10	1.91E-09	4.62E-13	0.00E+00	2.52E-09

1193	420020.68	3734298.39	7.17E-09	3.03E-08	1.33E-11	0.00E+00	3.75E-08	9.83E-10	4.14E-09	1.98E-12	0.00E+00	5.12E-09	6.03E-10	1.90E-09	4.59E-13	0.00E+00	2.51E-09
1194	420020.64	3734308.25	7.13E-09	3.01E-08	1.32E-11	0.00E+00	3.72E-08	9.77E-10	4.12E-09	1.97E-12	0.00E+00	5.10E-09	6.00E-10	1.89E-09	4.57E-13	0.00E+00	2.49E-09
1195	420020.6	3734318.11	7.09E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.72E-10	4.09E-09	1.96E-12	0.00E+00	5.07E-09	5.97E-10	1.88E-09	4.54E-13	0.00E+00	2.48E-09
1196	420020.56	3734327.97	7.06E-09	2.98E-08	1.31E-11	0.00E+00	3.69E-08	9.67E-10	4.07E-09	1.95E-12	0.00E+00	5.04E-09	5.94E-10	1.87E-09	4.52E-13	0.00E+00	2.47E-09
1197	420020.52	3734337.83	7.02E-09	2.96E-08	1.30E-11	0.00E+00	3.67E-08	9.62E-10	4.05E-09	1.94E-12	0.00E+00	5.02E-09	5.90E-10	1.86E-09	4.50E-13	0.00E+00	2.45E-09
1198	420020.48	3734347.69	6.98E-09	2.95E-08	1.29E-11	0.00E+00	3.65E-08	9.57E-10	4.03E-09	1.93E-12	0.00E+00	4.99E-09	5.88E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
1199	420020.44	3734357.55	6.95E-09	2.93E-08	1.29E-11	0.00E+00	3.63E-08	9.53E-10	4.01E-09	1.92E-12	0.00E+00	4.97E-09	5.85E-10	1.84E-09	4.45E-13	0.00E+00	2.43E-09
1200	420020.4	3734367.41	6.92E-09	2.92E-08	1.28E-11	0.00E+00	3.61E-08	9.48E-10	3.99E-09	1.91E-12	0.00E+00	4.94E-09	5.82E-10	1.84E-09	4.43E-13	0.00E+00	2.42E-09
1201	420655.74	3734209.58	5.82E-08	2.46E-07	1.08E-10	0.00E+00	3.04E-07	7.97E-09	3.36E-08	1.60E-11	0.00E+00	4.16E-08	4.89E-09	1.54E-08	3.73E-12	0.00E+00	2.03E-08
1202	420722.22	3734190.26	5.60E-08	2.36E-07	1.04E-10	0.00E+00	2.93E-07	7.68E-09	3.23E-08	1.55E-11	0.00E+00	4.00E-08	4.71E-09	1.49E-08	3.59E-12	0.00E+00	1.96E-08
1203	420646.47	3734189.49	4.86E-08	2.05E-07	9.01E-11	0.00E+00	2.54E-07	6.66E-09	2.81E-08	1.34E-11	0.00E+00	3.47E-08	4.09E-09	1.29E-08	3.11E-12	0.00E+00	1.70E-08
1204	420656.34	3734149.59	3.70E-08	1.56E-07	6.85E-11	0.00E+00	1.93E-07	5.07E-09	2.14E-08	1.02E-11	0.00E+00	2.64E-08	3.11E-09	9.82E-09	2.37E-12	0.00E+00	1.29E-08
1205	420646.88	3734149.49	3.64E-08	1.54E-07	6.74E-11	0.00E+00	1.90E-07	4.99E-09	2.10E-08	1.00E-11	0.00E+00	2.60E-08	3.06E-09	9.66E-09	2.33E-12	0.00E+00	1.27E-08
1206	420685.56	3734069.88	2.38E-08	1.00E-07	4.40E-11	0.00E+00	1.24E-07	3.26E-09	1.37E-08	6.56E-12	0.00E+00	1.70E-08	2.00E-09	6.31E-09	1.52E-12	0.00E+00	8.31E-09
1207	420648.91	3733949.5	1.29E-08	5.44E-08	2.39E-11	0.00E+00	6.73E-08	1.77E-09	7.43E-09	3.55E-12	0.00E+00	9.20E-09	1.08E-09	3.42E-09	8.25E-13	0.00E+00	4.50E-09
1208	420668.25	3733909.7	1.13E-08	4.76E-08	2.09E-11	0.00E+00	5.89E-08	1.55E-09	6.51E-09	3.11E-12	0.00E+00	8.06E-09	9.48E-10	2.99E-09	7.22E-13	0.00E+00	3.94E-09
1209	420658.78	3733909.6	1.12E-08	4.71E-08	2.07E-11	0.00E+00	5.83E-08	1.53E-09	6.44E-09	3.08E-12	0.00E+00	7.97E-09	9.38E-10	2.96E-09	7.15E-13	0.00E+00	3.90E-09
1210	420649.32	3733909.5	1.10E-08	4.66E-08	2.05E-11	0.00E+00	5.77E-08	1.51E-09	6.38E-09	3.05E-12	0.00E+00	7.89E-09	9.29E-10	2.93E-09	7.07E-13	0.00E+00	3.86E-09
1211	420687.6	3733869.89	9.96E-09	4.20E-08	1.84E-11	0.00E+00	5.20E-08	1.36E-09	5.75E-09	2.75E-12	0.00E+00	7.12E-09	8.38E-10	2.64E-09	6.38E-13	0.00E+00	3.48E-09
1212	420678.13	3733869.79	9.86E-09	4.16E-08	1.83E-11	0.00E+00	5.15E-08	1.35E-09	5.69E-09	2.72E-12	0.00E+00	7.05E-09	8.30E-10	2.62E-09	6.32E-13	0.00E+00	3.45E-09
1213	420668.66	3733869.7	9.77E-09	4.13E-08	1.81E-11	0.00E+00	5.11E-08	1.34E-09	5.64E-09	2.70E-12	0.00E+00	6.99E-09	8.22E-10	2.59E-09	6.26E-13	0.00E+00	3.42E-09
1214	420659.19	3733869.6	9.68E-09	4.09E-08	1.79E-11	0.00E+00	5.06E-08	1.33E-09	5.59E-09	2.67E-12	0.00E+00	6.92E-09	8.14E-10	2.57E-09	6.20E-13	0.00E+00	3.38E-09
1215	420649.72	3733869.51	9.58E-09	4.05E-08	1.78E-11	0.00E+00	5.01E-08	1.31E-09	5.53E-09	2.64E-12	0.00E+00	6.85E-09	8.06E-10	2.54E-09	6.14E-13	0.00E+00	3.35E-09
1216	420706.94	3733830.09	8.87E-09	3.74E-08	1.64E-11	0.00E+00	4.63E-08	1.22E-09	5.12E-09	2.45E-12	0.00E+00	6.34E-09	7.46E-10	2.35E-09	5.68E-13	0.00E+00	3.10E-09
1217	420697.47	3733829.99	8.80E-09	3.72E-08	1.63E-11	0.00E+00	4.60E-08	1.21E-09	5.08E-09	2.43E-12	0.00E+00	6.29E-09	7.40E-10	2.33E-09	5.64E-13	0.00E+00	3.08E-09
1218	420688	3733829.89	8.73E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.34E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
1219	420678.54	3733829.8	8.65E-09	3.65E-08	1.60E-11	0.00E+00	4.52E-08	1.19E-09	4.99E-09	2.39E-12	0.00E+00	6.18E-09	7.28E-10	2.30E-09	5.54E-13	0.00E+00	3.02E-09
1220	420669.07	3733829.7	8.58E-09	3.62E-08	1.59E-11	0.00E+00	4.48E-08	1.18E-09	4.95E-09	2.37E-12	0.00E+00	6.13E-09	7.21E-10	2.28E-09	5.49E-13	0.00E+00	3.00E-09
1221	420659.6	3733829.6	8.50E-09	3.59E-08	1.57E-11	0.00E+00	4.44E-08	1.17E-09	4.91E-09	2.35E-12	0.00E+00	6.07E-09	7.15E-10	2.26E-09	5.44E-13	0.00E+00	2.97E-09
1222	420650.13	3733829.51	8.42E-09	3.56E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.02E-09	7.09E-10	2.24E-09	5.40E-13	0.00E+00	2.94E-09
1223	420726.29	3733790.28	7.97E-09	3.37E-08	1.48E-11	0.00E+00	4.16E-08	1.09E-09	4.60E-09	2.20E-12	0.00E+00	5.70E-09	6.71E-10	2.12E-09	5.11E-13	0.00E+00	2.79E-09
1224	420716.82	3733790.18	7.91E-09	3.34E-08	1.47E-11	0.00E+00	4.13E-08	1.08E-09	4.57E-09	2.18E-12	0.00E+00	5.65E-09	6.66E-10	2.10E-09	5.07E-13	0.00E+00	2.77E-09
1225	420707.35	3733790.09	7.86E-09	3.32E-08	1.46E-11	0.00E+00	4.10E-08	1.08E-09	4.54E-09	2.17E-12	0.00E+00	5.62E-09	6.61E-10	2.09E-09	5.03E-13	0.00E+00	2.75E-09
1226	420697.88	3733789.99	7.80E-09	3.29E-08	1.44E-11	0.00E+00	4.07E-08	1.07E-09	4.50E-09	2.15E-12	0.00E+00	5.57E-09	6.56E-10	2.07E-09	4.99E-13	0.00E+00	2.72E-09
1227	420688.41	3733789.89	7.74E-09	3.27E-08	1.43E-11	0.00E+00	4.04E-08	1.06E-09	4.47E-09	2.14E-12	0.00E+00	5.53E-09	6.51E-10	2.05E-09	4.96E-13	0.00E+00	2.70E-09
1228	420678.94	3733789.8	7.67E-09	3.24E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.48E-09	6.45E-10	2.04E-09	4.91E-13	0.00E+00	2.68E-09
1229	420669.47	3733789.7	7.61E-09	3.21E-08	1.41E-11	0.00E+00	3.98E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.44E-09	6.40E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09
1230	420660	3733789.61	7.54E-09	3.19E-08	1.40E-11	0.00E+00	3.94E-08	1.03E-09	4.36E-09	2.08E-12	0.00E+00	5.39E-09	6.35E-10	2.00E-09	4.83E-13	0.00E+00	2.64E-09
1231	420650.54	3733789.51	7.48E-09	3.16E-08	1.39E-11	0.00E+00	3.91E-08	1.03E-09	4.32E-09	2.06E-12	0.00E+00	5.35E-09	6.29E-10	1.98E-09	4.79E-13	0.00E+00	2.61E-09
1232	420726.69	3733750.28	7.12E-09	3.01E-08	1.32E-11	0.00E+00	3.72E-08	9.76E-10	4.11E-09	1.97E-12	0.00E+00	5.09E-09	5.99E-10	1.89E-09	4.56E-13	0.00E+00	2.49E-09
1233	420717.22	3733750.19	7.07E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.70E-10	4.08E-09	1.95E-12	0.00E+00	5.06E-09	5.95E-10	1.88E-09	4.53E-13	0.00E+00	2.47E-09
1234	420707.75	3733750.09	7.03E-09	2.97E-08	1.30E-11	0.00E+00	3.67E-08	9.63E-10	4.06E-09	1.94E-12	0.00E+00	5.02E-09	5.91E-10	1.86E-09	4.50E-13	0.00E+00	2.46E-09
1235	420698.29	3733749.99	6.98E-09	2.95E-08	1.29E-11	0.00E+00	3.65E-08	9.56E-10	4.03E-09	1.93E-12	0.00E+00	4.99E-09	5.87E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
1236	420688.82	3733749.9	6.93E-09	2.92E-08	1.28E-11	0.00E+00	3.62E-08	9.49E-10	4.00E-09	1.91E-12	0.00E+00	4.95E-09	5.83E-10	1.84E-09	4.44E-13	0.00E+00	2.42E-09
1237	420679.35	3733749.8	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.42E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
1238	420669.88	3733749.7	6.82E-09	2.88E-08	1.26E-11	0.00E+00	3.56E-08	9.35E-10	3.94E-09	1.88E-12	0.00E+00	4.87E-09	5.74E-10	1.81E-09	4.37E-13	0.00E+00	2.38E-09
1239	420660.41	3733749.61	6.76E-09	2.86E-08	1.25E-11	0.00E+00	3.53E-08	9.27E-10	3.91E-09	1.87E-12	0.00E+00	4.83E-09	5.69E-10	1.80E-09	4.33E-13	0.00E+00	2.36E-09
1240	420650.94	3733749.51	6.71E-09	2.83E-08	1.24E-11	0.00E+00	3.51E-08	9.20E-10	3.88E-09	1.85E-12	0.00E+00	4.80E-09	5.65E-10	1.78E-09	4.30E-13	0.00E+00	2.35E-09
1241	420727.1	3733710.28	6.43E-09	2.71E-08	1.19E-11	0.00E+00	3.36E-08	8.81E-10	3.71E-09	1.77E-12	0.00E+00	4.59E-09	5.41E-10	1.71E-09	4.12E-13	0.00E+00	2.25E-09
1242	420717.63	3733710.19	6.39E-09	2.70E-08	1.18E-11	0.00E+00	3.34E-08	8.75E-10	3.69E-09	1.76E-12	0.00E+00	4.56E-09	5.37E-10	1.69E-09	4.09E-13	0.00E+00	2.23E-09
1243	420708.16	3733710.09	6.35E-09	2.68E-08	1.18E-11	0.00E+00	3.32E-08	8.70E-10	3.66E-09	1.75E-12	0.00E+00	4.54E-09	5.34E-10	1.68E-09	4.06E-13	0.00E+00	2.22E-09
1244	420698.69	3733710	6.30E-09	2.66E-08	1.17E-11	0.00E+00	3.29E-08	8.64E-10	3.64E-09	1.74E-12	0.00E+00	4.50E-09	5.30E-10	1.67E-09	4.04E-13	0.00E+00	2.20E-09
1245	420689.22	3733709.9	6.26E-09	2.64E-08	1.16E-11	0.00E+00	3.27E-08	8.58E-10	3.61E-09	1.73E-12	0.00E+00	4.47E-09	5.26E-10	1.66E-09	4.01E-13	0.00E+00	2.19E-09
1246	420679.75	3733709.8	6.21E-09	2.62E-08	1.15E-11	0.00E+00	3.25E-08	8.52E-10	3.59E-09	1.72E-12	0.00E+00	4.44E-09	5.23E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
1247	420670.29	3733709.71	6.17E-09	2.61E-08	1.14E-11	0.00E+00	3.22E-08	8.46E-10	3.56E-09	1.70E-12	0.00E+00	4.41E-09	5.19E-10	1.64E-09	3.95E-13	0.00E+00	2.16E-09
1248	420727.51	3733670.29	5.84E-09	2.47E-08	1.08E-11	0.00E+00	3.05E-08	8.01E-10	3.37E-09	1.61E-12	0.00E+00	4.18E-09	4.92E-10	1.55E-09	3.74E-13	0.00E+00	2.04E-09
1249	420718.04	3733670.19	5.81E-09	2.45E-08	1.08E-11	0.00E+00	3.04E-08	7.96E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.89E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
1250	420708.57	3733670.09	5.77E-09	2.44E-08	1.07E-11	0.00E+00	3.02E-08	7.91E-10	3.33E-09	1.59E-12	0.00E+00	4.13E-09	4.86E-10	1.53E-09	3.70E-13	0.00E+00	2.02E-09
1251	420699.1	3733670	5.74E-09	2.42E-08	1.06E-11	0.00E+00	3.00E-08	7.86E-10	3.31E-09	1.58E-12	0.00E+00	4.10E-09	4.83E-10	1.52E-09	3.68E-13	0.00E+00	2.01E-09
1252	420689.63	3733669.9	5.70E-09	2.41E-08	1.06E-11	0.00E+00	2.98E-08	7.81E-10	3.29E-09	1.57E-12	0.00E+00	4.07E-09	4.79E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
1253	420614.75	3734378.53	3.58E-07	1.51E-06	6.63E-10	0.00E+00	1.87E-06	4.90E-08	2.07E-07	9.87E-11	0.00E+00	2.56E-07	3.01E-08	9.49E-08	2.29E-11	0.00E+00	1.25E-07
1254	420614.96	3734395.89	4.38E-07	1.85E-06	8.11E-10	0.00E+00	2.29E-06	6.00E-08	2.53E-07	1.21E-10	0.00E+00	3.13E-07	3.68E-08	1.16E-07	2.81E-11	0.00E+00	1.53E-07
1255	420604.75	3734378.65	3.20E-07	1.35E-06	5.92E-10	0.00E+00	1.67E-06	4.38E-08	1.84E-07	8.82E-11	0.00E+00	2.28E-07	2.69E-08	8.48E-08	2.05E-11	0.00E+00	1.12E-07
1256	420604.96	3734396.01	3.80E-07	1.60E-06	7.04E-10	0.00E+00	1.99E-06	5.21E-08	2.19E-07	1.05E-10	0.00E+00	2.72E-07	3.20E-08	1.01E-07	2.43E-11	0.00E+00	1.33E-07
1257	420594.75	3734378.77	2.85E-07	1.20E-06	5.29E-10	0.00E+00	1.49E-06	3.91E-08	1.65E-07	7.87E-11	0.00E+00	2.04E-07	2.40E-08	7.57E-08	1.83E-11	0.00E+00	9.97E-08
1258	420594.96	3734396.13	3.31E-07	1.40E-06	6.13E-10	0.00E+00	1.73E-06	4.53E-08	1.91E-07	9.13E-11	0.00E+00	2.36E-07	2.78E-08	8.78E-08	2.12E-11	0.00E+00	1.16E-07
1259	420609.35	3734324.16	1.73E-07	7.28E-07	3.20E-10	0.00E+00	9.01E-07	2.36E-08	9.96E-08	4.76E-11	0.00E+00	1.23E-07	1.45E-08	4.58E-08	1.11E-11	0.00E+00	6.03E-08
1260	420584.75	3734378.9	2.55E-07	1.08E-06	4.72E-10	0.00E+00	1.33E-06	3.49E-08	1.47E-07	7.03E-11	0.00E+00	1.82E-07	2.14E-08	6.76E-08	1.63E-11	0.00E+00	8.90E-08
1261	420584.96	3734396.26	2.89E-07	1.22E-06	5.35E-10	0.00E+00	1.51E-06	3.96E-08	1.67E-07	7.97E-11	0.00E+00	2.06E-07	2.43E-08	7.66E-08	1.85E-11	0.00E+00	1.01E-07
1262	420589.25	3734334.41	1.74E-07	7.34E-07	3.22E-10	0.00E+00	9.08E-07	2.38E-08	1.00E-07	4.79E-11	0.00E+00	1.24E-07	1.46E-08	4.61E-08	1.11E-11	0.00E+00	6.07E-08
1263	420609.45	3734314.16	1.53E-07	6.45E-07	2.83E-10	0.00E+00	7.99E-07	2.10E-08	8.83E-08	4.22E-11	0.00E+00	1.09E-07	1.29E-08	4.06E-08	9.79E-12	0.00E+00	5.34E-08
1264	420574.75	3734379.02	2.28E-07	9.61E-07	4.22E-10	0.00E+00	1.19E-06	3.12E-08	1.31E-07	6.28E-11	0.00E+00	1.63E-07	1.91E-08	6.04E-08	1.46E-11	0.00E+00	7.96E-08
1265	420574.97	3734396.38	2.53E-07	1.07E-06	4.69E-10	0.00E+00	1.32E-06	3.47E-08	1.46E-07	6.99E-11	0.00E+00	1.81E-07	2.13E-08	6.72E-08	1.62E-11	0.00E+00	8.85E-08
1266	420609.55	3734304.16	1.36E-07	5.74E-07	2.52E-10	0.00E+00	7.10E-07	1.86E-08	7.84E-08	3.75E-11	0.00E+00	9.71E-08	1.14E-08	3.60E-08	8.70E-12	0.00E+00	4.75E-08
1267	420564.75	3734379.14	2.04E-07	8.59E-07	3.77E-10	0.00E+00	1.06E-06	2.79E-08	1.18E-07	5.62E-11	0.00E+00	1.45E-07	1.71E-08	5.40E-08	1.30E-11	0.00E+00	7.11E-08
1268	420564.97	3734396.5	2.23E-07	9.40E-07	4.13E-10	0.00E+00	1.16E-06	3.05E-08	1.29E-07	6.15E-11	0.00E+00	1.59E-07	1.87E-08	5.91E-08	1.43E-11	0.00E+00	7.79E-08
1269	420569.25	3734334.65	1.52E-07	6.44E-07	2.82E-10	0.00E+00	7.96E-07	2.09E-08	8.80E-08	4.21E-11	0.00E+00	1.09E-07	1.28E-08	4.04E-08	9.76E-12	0.00E+00	5.33E-08
1270	420609.65	3734294.16	1.21E-07	5.11E-07	2.24E-10	0.00E+00	6.33E-07	1.66E-08	6.99E-08	3.34E-11	0.00E+00	8.66E-08	1.02E-08	3.21E-08	7.76E-12	0.00E+00	4.23E-08
1271	420554.75	3734379.27	1.82E-07	7.70E-07	3.38E-10	0.00E+00	9.52E-07	2.50E-08	1.05E-07	5.03E-11	0.00E+00	1.30E-07	1.53E-08	4.84E-08	1.17E-11	0.00E+00	6.37E-08
1272	420554.97	3734396.63	1.97E-07	8.30E-07	3.64E-10	0.00E+00	1.03E-06	2.70E-08	1.14E-07	5.43E-11	0.00E+00	1.41E-07	1.65E-08	5.22E-08	1.26E-11	0.00E+00	6.88E-08
1273	420570.61	3734306.83	1.19E-07	5.03E-07	2.21E-10	0.00E+00	6.22E-07	1.63E-08	6.88E-08	3.29E-11	0.00E+00	8.51E-08	1.00E-08	3.16E-08	7.63E-12	0.00E+00	4.16E-08
1274	420589.81	3734292.32	1.11E-07	4.70E-07	2.06E-10	0.00E+00	5.82E-07	1.53E-08	6.43E-08	3.07E-11	0.00E+00	7.96E-08	9.37E-09	2.96E-08	7.14E-12	0.00E+00	3.90E-08
1275	420544.75	3734379.39	1.64E-07	6.91E-07	3.03E-10	0.00E+00	8.55E-07	2.24E-08	9.45E-08	4.52E-11	0.00E+00	1.17E-07	1.38E-08	4.34E-08	1.05E-11	0.00E+00	5.72E-08
1276	420544.97	3734396.75	1.74E-07	7.36E-07	3.23E-10	0.00E+00	9.11E-07	2.39E-08	1.01E-07	4.81E-11	0.00E+00	1.25E-07	1.47E-08	4.63E-08	1.12E-11	0.00E+00	6.09E-08
1277	420550.14	3734308.24	1.09E-07	4.59E-07	2.01E-10	0.00E+00	5.68E-07	1.49E-08	6.27E-08	3.00E-11	0.00E+00	7.76E-08	9.14E-09	2.88E-08	6.96E-12	0.00E+00	3.80E-08
1278	420524.76	3734379.63	1.33E-07	5.60E-07	2.46E-10	0.00E+00	6.93E-07	1.82E-08	7.66E-08	3.66E-11	0.00E+00	9.48E-08	1.12E-08	3.52E-08	8.49E-12	0.00E+00	4.64E-08
1279	420524.97	3734396.99	1.38E-07	5.84E-07	2.56E-10	0.00E+00	7.23E-07	1.90E-08	7.99E-08	3.82E-11	0.00E+00	9.89E-08	1.16E-08	3.67E-08	8.87E-12	0.00E+00	4.84E-08
1280	420529.81	3734309.29	9.76E-08	4.12E-07	1.81E-10	0.00E+00	5.10E-07	1.34E-08	5.64E-08	2.69E-11	0.00E+00	6.98E-08	8.21E-09	2.59E-08	6.25E-12	0.00E+00	3.41E-08
1281	420504.76	3734379.88	1.08E-07	4.58E-07	2.01E-10	0.00E+00	5.66E-07	1.49E-08	6.26E-08	2.99E-11	0.00E+00	7.75E-08	9.12E-09	2.88E-08	6.94E-12	0.00E+00	3.79E-08
1282	420504.97	3734397.24	1.11E-07	4.71E-07	2.07E-10	0.00E+00	5.82E-07	1.53E-08	6.44E-08	3.08E-11	0.00E+00	7.97E-08	9.38E-09	2.96E-08	7.14E-12	0.00E+00	3.90E-08
1283	420577.34	3734237.67	6.40E-08	2.70E-07	1.19E-10	0.00E+00	3.34E-07	8.77E-09	3.69E-08	1.77E-11	0.00E+00	4.57E-08	5.38E-09	1.70E-08	4.10E-12	0.00E+00	2.24E-08
1284	420484.76	3734380.13	8.95E-08	3.78E-07	1.66E-10	0.00E+00	4.67E-07	1.23E-08	5.17E-08	2.47E-11	0.00E+00	6.40E-08	7.53E-09	2.37E-08	5.73E-12	0.00E+00	3.13E-08

1285	420484.97	3734397.49	9.10E-08	3.84E-07	1.69E-10	0.00E+00	4.75E-07	1.25E-08	5.25E-08	2.51E-11	0.00E+00	6.50E-08	7.66E-09	2.41E-08	5.83E-12	0.00E+00	3.18E-08
1286	420540.03	3734233.01	5.70E-08	2.40E-07	1.06E-10	0.00E+00	2.98E-07	7.81E-09	3.29E-08	1.57E-11	0.00E+00	4.07E-08	4.79E-09	1.51E-08	3.65E-12	0.00E+00	1.99E-08
1287	420464.76	3734380.37	7.46E-08	3.15E-07	1.38E-10	0.00E+00	3.90E-07	1.02E-08	4.31E-08	2.06E-11	0.00E+00	5.33E-08	6.27E-09	1.98E-08	4.78E-12	0.00E+00	2.61E-08
1288	420464.97	3734397.73	7.52E-08	3.18E-07	1.39E-10	0.00E+00	3.93E-07	1.03E-08	4.34E-08	2.08E-11	0.00E+00	5.38E-08	6.33E-09	2.00E-08	4.82E-12	0.00E+00	2.63E-08
1289	420470.62	3734308.06	6.70E-08	2.83E-07	1.24E-10	0.00E+00	3.50E-07	9.19E-09	3.87E-08	1.85E-11	0.00E+00	4.79E-08	5.64E-09	1.78E-08	4.30E-12	0.00E+00	2.34E-08
1290	420527	3734218.42	5.02E-08	2.12E-07	9.30E-11	0.00E+00	2.62E-07	6.88E-09	2.90E-08	1.39E-11	0.00E+00	3.59E-08	4.22E-09	1.33E-08	3.22E-12	0.00E+00	1.75E-08
1291	420444.76	3734380.62	6.27E-08	2.65E-07	1.16E-10	0.00E+00	3.28E-07	8.60E-09	3.62E-08	1.73E-11	0.00E+00	4.48E-08	5.28E-09	1.66E-08	4.02E-12	0.00E+00	2.19E-08
1292	420444.98	3734397.98	6.29E-08	2.65E-07	1.17E-10	0.00E+00	3.28E-07	8.62E-09	3.63E-08	1.74E-11	0.00E+00	4.49E-08	5.29E-09	1.67E-08	4.03E-12	0.00E+00	2.20E-08
1293	420450.36	3734308.94	5.90E-08	2.49E-07	1.09E-10	0.00E+00	3.08E-07	8.08E-09	3.40E-08	1.63E-11	0.00E+00	4.21E-08	4.96E-09	1.56E-08	3.78E-12	0.00E+00	2.06E-08
1294	420485.7	3734221.99	4.65E-08	1.96E-07	8.62E-11	0.00E+00	2.43E-07	6.38E-09	2.69E-08	1.28E-11	0.00E+00	3.32E-08	3.91E-09	1.23E-08	2.98E-12	0.00E+00	1.63E-08
1295	420468.38	3734215.63	4.26E-08	1.80E-07	7.90E-11	0.00E+00	2.23E-07	5.84E-09	2.46E-08	1.18E-11	0.00E+00	3.05E-08	3.59E-09	1.13E-08	2.73E-12	0.00E+00	1.49E-08
1296	420607.91	3734145.51	3.34E-08	1.41E-07	6.19E-11	0.00E+00	1.75E-07	4.58E-09	1.93E-08	9.22E-12	0.00E+00	2.39E-08	2.81E-09	8.87E-09	2.14E-12	0.00E+00	1.17E-08
1297	420404.76	3734381.11	4.56E-08	1.93E-07	8.45E-11	0.00E+00	2.38E-07	6.25E-09	2.63E-08	1.26E-11	0.00E+00	3.26E-08	3.84E-09	1.21E-08	2.92E-12	0.00E+00	1.59E-08
1298	420404.98	3734398.47	4.54E-08	1.92E-07	8.41E-11	0.00E+00	2.37E-07	6.22E-09	2.62E-08	1.25E-11	0.00E+00	3.24E-08	3.82E-09	1.20E-08	2.91E-12	0.00E+00	1.59E-08
1299	420397.32	3734341.53	4.31E-08	1.82E-07	7.99E-11	0.00E+00	2.25E-07	5.91E-09	2.49E-08	1.19E-11	0.00E+00	3.08E-08	3.63E-09	1.14E-08	2.76E-12	0.00E+00	1.51E-08
1300	420403.64	3734325.96	4.45E-08	1.88E-07	8.25E-11	0.00E+00	2.33E-07	6.10E-09	2.57E-08	1.23E-11	0.00E+00	3.18E-08	3.75E-09	1.18E-08	2.85E-12	0.00E+00	1.56E-08
1301	420409.97	3734310.39	4.55E-08	1.92E-07	8.44E-11	0.00E+00	2.38E-07	6.24E-09	2.63E-08	1.26E-11	0.00E+00	3.25E-08	3.83E-09	1.21E-08	2.92E-12	0.00E+00	1.59E-08
1302	420451.1	3734209.18	3.91E-08	1.65E-07	7.24E-11	0.00E+00	2.04E-07	5.36E-09	2.26E-08	1.08E-11	0.00E+00	2.79E-08	3.29E-09	1.04E-08	2.50E-12	0.00E+00	1.37E-08
1303	420457.43	3734193.61	3.66E-08	1.55E-07	6.79E-11	0.00E+00	1.91E-07	5.02E-09	2.12E-08	1.01E-11	0.00E+00	2.62E-08	3.08E-09	9.72E-09	2.35E-12	0.00E+00	1.28E-08
1304	420600.61	3734128.58	2.97E-08	1.25E-07	5.50E-11	0.00E+00	1.55E-07	4.07E-09	1.71E-08	8.19E-12	0.00E+00	2.12E-08	2.50E-09	7.88E-09	1.90E-12	0.00E+00	1.04E-08
1305	420384.77	3734381.35	3.94E-08	1.66E-07	7.30E-11	0.00E+00	2.06E-07	5.40E-09	2.27E-08	1.09E-11	0.00E+00	2.82E-08	3.31E-09	1.05E-08	2.52E-12	0.00E+00	1.38E-08
1306	420384.98	3734398.71	3.91E-08	1.65E-07	7.25E-11	0.00E+00	2.04E-07	5.36E-09	2.26E-08	1.08E-11	0.00E+00	2.80E-08	3.29E-09	1.04E-08	2.51E-12	0.00E+00	1.37E-08
1307	420389.82	3734311.01	4.01E-08	1.69E-07	7.43E-11	0.00E+00	2.10E-07	5.50E-09	2.32E-08	1.11E-11	0.00E+00	2.87E-08	3.37E-09	1.06E-08	2.57E-12	0.00E+00	1.40E-08
1308	420396.11	3734295.53	4.08E-08	1.72E-07	7.57E-11	0.00E+00	2.13E-07	5.60E-09	2.36E-08	1.13E-11	0.00E+00	2.92E-08	3.44E-09	1.08E-08	2.62E-12	0.00E+00	1.43E-08
1309	420414.99	3734249.09	4.03E-08	1.70E-07	7.46E-11	0.00E+00	2.10E-07	5.52E-09	2.32E-08	1.11E-11	0.00E+00	2.88E-08	3.39E-09	1.07E-08	2.58E-12	0.00E+00	1.41E-08
1310	420421.28	3734233.61	3.92E-08	1.65E-07	7.26E-11	0.00E+00	2.05E-07	5.37E-09	2.26E-08	1.08E-11	0.00E+00	2.80E-08	3.29E-09	1.04E-08	2.51E-12	0.00E+00	1.37E-08
1311	420427.57	3734218.14	3.77E-08	1.59E-07	6.98E-11	0.00E+00	1.97E-07	5.16E-09	2.18E-08	1.04E-11	0.00E+00	2.69E-08	3.17E-09	1.00E-08	2.41E-12	0.00E+00	1.32E-08
1312	420454.17	3734168.54	3.17E-08	1.34E-07	5.88E-11	0.00E+00	1.66E-07	4.35E-09	1.83E-08	8.75E-12	0.00E+00	2.27E-08	2.67E-09	8.42E-09	2.03E-12	0.00E+00	1.11E-08
1313	420577.89	3734117.95	2.71E-08	1.14E-07	5.02E-11	0.00E+00	1.42E-07	3.71E-09	1.56E-08	7.48E-12	0.00E+00	1.94E-08	2.28E-09	7.19E-09	1.74E-12	0.00E+00	9.47E-09
1314	420364.77	3734381.6	3.43E-08	1.45E-07	6.35E-11	0.00E+00	1.79E-07	4.70E-09	1.98E-08	9.46E-12	0.00E+00	2.45E-08	2.88E-09	9.10E-09	2.20E-12	0.00E+00	1.20E-08
1315	420364.98	3734398.96	3.40E-08	1.44E-07	6.30E-11	0.00E+00	1.78E-07	4.66E-09	1.96E-08	9.38E-12	0.00E+00	2.43E-08	2.86E-09	9.02E-09	2.18E-12	0.00E+00	1.19E-08
1316	420357.64	3734341.23	3.31E-08	1.40E-07	6.13E-11	0.00E+00	1.73E-07	4.54E-09	1.91E-08	9.14E-12	0.00E+00	2.37E-08	2.79E-09	8.79E-09	2.12E-12	0.00E+00	1.16E-08
1317	420364.13	3734325.26	3.44E-08	1.45E-07	6.38E-11	0.00E+00	1.80E-07	4.72E-09	1.99E-08	9.50E-12	0.00E+00	2.46E-08	2.90E-09	9.14E-09	2.21E-12	0.00E+00	1.20E-08
1318	420370.62	3734309.29	3.55E-08	1.50E-07	6.58E-11	0.00E+00	1.86E-07	4.87E-09	2.05E-08	9.81E-12	0.00E+00	2.54E-08	2.99E-09	9.43E-09	2.28E-12	0.00E+00	1.24E-08
1319	420409.57	3734213.47	3.46E-08	1.46E-07	6.41E-11	0.00E+00	1.81E-07	4.74E-09	2.00E-08	9.55E-12	0.00E+00	2.47E-08	2.91E-09	9.18E-09	2.22E-12	0.00E+00	1.21E-08
1320	420416.06	3734197.5	3.31E-08	1.40E-07	6.14E-11	0.00E+00	1.73E-07	4.54E-09	1.91E-08	9.14E-12	0.00E+00	2.37E-08	2.79E-09	8.79E-09	2.12E-12	0.00E+00	1.16E-08
1321	420422.55	3734181.53	3.15E-08	1.33E-07	5.83E-11	0.00E+00	1.64E-07	4.31E-09	1.82E-08	8.68E-12	0.00E+00	2.25E-08	2.65E-09	8.35E-09	2.02E-12	0.00E+00	1.10E-08
1322	420464.19	3734144.52	2.83E-08	1.19E-07	5.23E-11	0.00E+00	1.48E-07	3.87E-09	1.63E-08	7.80E-12	0.00E+00	2.02E-08	2.38E-09	7.50E-09	1.81E-12	0.00E+00	9.88E-09
1323	420480.15	3734138	2.78E-08	1.17E-07	5.15E-11	0.00E+00	1.45E-07	3.81E-09	1.61E-08	7.67E-12	0.00E+00	1.99E-08	2.34E-09	7.38E-09	1.78E-12	0.00E+00	9.72E-09
1324	420575.89	3734098.85	2.42E-08	1.02E-07	4.48E-11	0.00E+00	1.26E-07	3.31E-09	1.39E-08	6.67E-12	0.00E+00	1.73E-08	2.03E-09	6.41E-09	1.55E-12	0.00E+00	8.44E-09
1325	420344.77	3734381.85	3.00E-08	1.27E-07	5.57E-11	0.00E+00	1.57E-07	4.12E-09	1.73E-08	8.29E-12	0.00E+00	2.15E-08	2.53E-09	7.97E-09	1.92E-12	0.00E+00	1.05E-08
1326	420344.98	3734399.21	2.98E-08	1.26E-07	5.51E-11	0.00E+00	1.55E-07	4.08E-09	1.72E-08	8.21E-12	0.00E+00	2.13E-08	2.50E-09	7.90E-09	1.91E-12	0.00E+00	1.04E-08
1327	420317.48	3734342.13	2.59E-08	1.09E-07	4.79E-11	0.00E+00	1.35E-07	3.55E-09	1.49E-08	7.14E-12	0.00E+00	1.85E-08	2.18E-09	6.86E-09	1.66E-12	0.00E+00	9.04E-09
1328	420323.89	3734326.37	2.70E-08	1.14E-07	4.99E-11	0.00E+00	1.41E-07	3.69E-09	1.56E-08	7.44E-12	0.00E+00	1.93E-08	2.27E-09	7.15E-09	1.73E-12	0.00E+00	9.42E-09
1329	420330.29	3734310.6	2.80E-08	1.18E-07	5.18E-11	0.00E+00	1.46E-07	3.83E-09	1.61E-08	7.72E-12	0.00E+00	2.00E-08	2.35E-09	7.42E-09	1.79E-12	0.00E+00	9.77E-09
1330	420387.95	3734168.73	2.70E-08	1.14E-07	5.01E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.46E-12	0.00E+00	1.93E-08	2.27E-09	7.17E-09	1.73E-12	0.00E+00	9.45E-09
1331	420400.77	3734137.2	2.44E-08	1.03E-07	4.51E-11	0.00E+00	1.27E-07	3.34E-09	1.41E-08	6.72E-12	0.00E+00	1.74E-08	2.05E-09	6.47E-09	1.56E-12	0.00E+00	8.52E-09
1332	420411.84	3734126.1	2.36E-08	9.98E-08	4.38E-11	0.00E+00	1.23E-07	3.24E-09	1.36E-08	6.52E-12	0.00E+00	1.69E-08	1.99E-09	6.27E-09	1.51E-12	0.00E+00	8.26E-09
1333	420443.34	3734113.22	2.32E-08	9.81E-08	4.30E-11	0.00E+00	1.21E-07	3.18E-09	1.34E-08	6.41E-12	0.00E+00	1.66E-08	1.95E-09	6.16E-09	1.49E-12	0.00E+00	8.12E-09
1334	420459.09	3734106.78	2.28E-08	9.65E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.31E-12	0.00E+00	1.63E-08	1.92E-09	6.06E-09	1.46E-12	0.00E+00	7.99E-09
1335	420490.59	3734093.9	2.19E-08	9.25E-08	4.06E-11	0.00E+00	1.14E-07	3.00E-09	1.27E-08	6.05E-12	0.00E+00	1.57E-08	1.84E-09	5.82E-09	1.40E-12	0.00E+00	7.66E-09
1336	420304.77	3734382.34	2.35E-08	9.93E-08	4.36E-11	0.00E+00	1.23E-07	3.22E-09	1.36E-08	6.49E-12	0.00E+00	1.68E-08	1.98E-09	6.24E-09	1.51E-12	0.00E+00	8.22E-09
1337	420304.99	3734399.7	2.33E-08	9.82E-08	4.31E-11	0.00E+00	1.22E-07	3.19E-09	1.34E-08	6.42E-12	0.00E+00	1.66E-08	1.96E-09	6.17E-09	1.49E-12	0.00E+00	8.13E-09
1338	420277.73	3734342.02	2.07E-08	8.72E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.70E-12	0.00E+00	1.48E-08	1.74E-09	5.48E-09	1.32E-12	0.00E+00	7.22E-09
1339	420284.25	3734325.96	2.16E-08	9.10E-08	3.99E-11	0.00E+00	1.13E-07	2.95E-09	1.24E-08	5.95E-12	0.00E+00	1.54E-08	1.81E-09	5.72E-09	1.38E-12	0.00E+00	7.53E-09
1340	420329.95	3734213.51	2.51E-08	1.06E-07	4.65E-11	0.00E+00	1.31E-07	3.44E-09	1.45E-08	6.93E-12	0.00E+00	1.80E-08	2.11E-09	6.67E-09	1.61E-12	0.00E+00	8.78E-09
1341	420336.48	3734197.45	2.49E-08	1.05E-07	4.61E-11	0.00E+00	1.30E-07	3.41E-09	1.44E-08	6.86E-12	0.00E+00	1.78E-08	2.09E-09	6.60E-09	1.59E-12	0.00E+00	8.70E-09
1342	420343.01	3734181.38	2.44E-08	1.03E-07	4.53E-11	0.00E+00	1.28E-07	3.35E-09	1.41E-08	6.74E-12	0.00E+00	1.75E-08	2.05E-09	6.48E-09	1.56E-12	0.00E+00	8.54E-09
1343	420362.6	3734133.19	2.20E-08	9.29E-08	4.08E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.07E-12	0.00E+00	1.57E-08	1.85E-09	5.84E-09	1.41E-12	0.00E+00	7.69E-09
1344	420369.13	3734117.13	2.10E-08	8.85E-08	3.89E-11	0.00E+00	1.10E-07	2.87E-09	1.21E-08	5.79E-12	0.00E+00	1.50E-08	1.76E-09	5.56E-09	1.34E-12	0.00E+00	7.33E-09
1345	420415.78	3734084.66	1.96E-08	8.26E-08	3.62E-11	0.00E+00	1.02E-07	2.68E-09	1.13E-08	5.40E-12	0.00E+00	1.40E-08	1.64E-09	5.19E-09	1.25E-12	0.00E+00	6.83E-09
1346	420431.83	3734078.1	1.93E-08	8.13E-08	3.57E-11	0.00E+00	1.01E-07	2.64E-09	1.11E-08	5.31E-12	0.00E+00	1.38E-08	1.62E-09	5.11E-09	1.23E-12	0.00E+00	6.73E-09
1347	420463.93	3734064.97	1.85E-08	7.81E-08	3.43E-11	0.00E+00	9.66E-08	2.54E-09	1.07E-08	5.11E-12	0.00E+00	1.32E-08	1.56E-09	4.91E-09	1.19E-12	0.00E+00	6.47E-09
1348	420520.1	3734042	1.71E-08	7.20E-08	3.16E-11	0.00E+00	8.91E-08	2.34E-09	9.85E-09	4.71E-12	0.00E+00	1.22E-08	1.44E-09	4.53E-09	1.09E-12	0.00E+00	5.96E-09
1349	420536.15	3734035.44	1.67E-08	7.05E-08	3.09E-11	0.00E+00	8.72E-08	2.29E-09	9.64E-09	4.61E-12	0.00E+00	1.19E-08	1.40E-09	4.43E-09	1.07E-12	0.00E+00	5.84E-09
1350	420552.2	3734028.88	1.64E-08	6.92E-08	3.04E-11	0.00E+00	8.56E-08	2.25E-09	9.46E-09	4.52E-12	0.00E+00	1.17E-08	1.38E-09	4.35E-09	1.05E-12	0.00E+00	5.73E-09
1351	420568.25	3734022.31	1.61E-08	6.81E-08	2.99E-11	0.00E+00	8.42E-08	2.21E-09	9.31E-09	4.45E-12	0.00E+00	1.15E-08	1.36E-09	4.28E-09	1.03E-12	0.00E+00	5.64E-09
1352	420584.3	3734015.75	1.59E-08	6.72E-08	2.95E-11	0.00E+00	8.31E-08	2.18E-09	9.19E-09	4.39E-12	0.00E+00	1.14E-08	1.34E-09	4.22E-09	1.02E-12	0.00E+00	5.56E-09
1353	420264.78	3734382.83	1.88E-08	7.95E-08	3.49E-11	0.00E+00	9.83E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.34E-08	1.58E-09	4.99E-09	1.21E-12	0.00E+00	6.58E-09
1354	420264.99	3734400.19	1.86E-08	7.87E-08	3.45E-11	0.00E+00	9.73E-08	2.55E-09	1.08E-08	5.14E-12	0.00E+00	1.33E-08	1.57E-09	4.94E-09	1.19E-12	0.00E+00	6.51E-09
1355	420237.58	3734342.87	1.68E-08	7.08E-08	3.11E-11	0.00E+00	8.76E-08	2.30E-09	9.68E-09	4.63E-12	0.00E+00	1.20E-08	1.41E-09	4.45E-09	1.07E-12	0.00E+00	5.86E-09
1356	420244.04	3734326.98	1.75E-08	7.37E-08	3.24E-11	0.00E+00	9.12E-08	2.39E-09	1.01E-08	4.82E-12	0.00E+00	1.25E-08	1.47E-09	4.63E-09	1.12E-12	0.00E+00	6.10E-09
1357	420250.5	3734311.1	1.82E-08	7.67E-08	3.37E-11	0.00E+00	9.49E-08	2.49E-09	1.05E-08	5.01E-12	0.00E+00	1.30E-08	1.53E-09	4.82E-09	1.16E-12	0.00E+00	6.35E-09
1358	420295.69	3734199.9	2.13E-08	8.98E-08	3.94E-11	0.00E+00	1.11E-07	2.91E-09	1.23E-08	5.87E-12	0.00E+00	1.52E-08	1.79E-09	5.64E-09	1.36E-12	0.00E+00	7.43E-09
1359	420302.15	3734184.01	2.12E-08	8.93E-08	3.92E-11	0.00E+00	1.11E-07	2.90E-09	1.22E-08	5.84E-12	0.00E+00	1.51E-08	1.78E-09	5.62E-09	1.36E-12	0.00E+00	7.40E-09
1360	420308.6	3734168.13	2.09E-08	8.83E-08	3.87E-11	0.00E+00	1.09E-07	2.87E-09	1.21E-08	5.77E-12	0.00E+00	1.49E-08	1.76E-09	5.55E-09	1.34E-12	0.00E+00	7.31E-09
1361	420321.52	3734136.35	2.00E-08	8.43E-08	3.70E-11	0.00E+00	1.04E-07	2.74E-09	1.15E-08	5.51E-12	0.00E+00	1.43E-08	1.68E-09	5.30E-09	1.28E-12	0.00E+00	6.98E-09
1362	420327.97	3734120.47	1.93E-08	8.16E-08	3.58E-11	0.00E+00	1.01E-07	2.65E-09	1.12E-08	5.33E-12	0.00E+00	1.38E-08	1.63E-09	5.13E-09	1.24E-12	0.00E+00	6.75E-09
1363	420334.43	3734104.58	1.86E-08	7.85E-08	3.44E-11	0.00E+00	9.71E-08	2.55E-09	1.07E-08	5.13E-12	0.00E+00	1.33E-08	1.56E-09	4.93E-09	1.19E-12	0.00E+00	6.50E-09
1364	420340.88	3734088.7	1.78E-08	7.52E-08	3.30E-11	0.00E+00	9.30E-08	2.44E-09	1.03E-08	4.91E-12	0.00E+00	1.27E-08	1.50E-09	4.72E-09	1.14E-12	0.00E+00	6.22E-09
1365	420355.28	3734069.57	1.70E-08	7.16E-08	3.14E-11	0.00E+00	8.86E-08	2.33E-09	9.80E-09	4.68E-12	0.00E+00	1.21E-08	1.43E-09	4.50E-09	1.09E-12	0.00E+00	5.93E-09
1366	420442.57	3734033.87	1.57E-08	6.64E-08	2.91E-11	0.00E+00	8.21E-08	2.15E-09	9.08E-09	4.34E-12	0.00E+00	1.12E-08	1.32E-09	4.17E-09	1.01E-12	0.00E+00	5.49E-09
1367	420458.44	3734027.38	1.54E-08	6.49E-08	2.85E-11	0.00E+00	8.04E-08	2.11E-09	8.88E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.85E-13	0.00E+00	5.38E-09
1368	420490.19	3734014.4	1.47E-08	6.21E-08	2.73E-11	0.00E+00	7.69E-08	2.02E-09	8.50E-09	4.06E-12	0.00E+00	1.05E-08	1.24E-09	3.90E-09	9.43E-13	0.00E+00	5.14E-09
1369	420521.93	3734001.42	1.41E-08	5.97E-08	2.62E-11	0.00E+00	7.38E-08	1.94E-09	8.16E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.05E-13	0.00E+00	4.94E-09
1370	420537.8	3733994.93	1.39E-08	5.86E-08	2.57E-11	0.00E+00	7.26E-08	1.90E-09	8.02E-09	3.83E-12	0.00E+00	9.93E-09	1.17E-09	3.69E-09	8.90E-13	0.00E+00	4.86E-09
1371	420553.68	3733988.44	1.37E-08	5.77E-08	2.53E-11	0.00E+00	7.15E-08	1.87E-09	7.90E-09	3.77E-12	0.00E+00	9.78E-09	1.15E-09	3.63E-09	8.76E-13	0.00E+00	4.78E-09
1372	420569.55	3733981.95	1.35E-08	5.70E-08	2.50E-11	0.00E+00	7.05E-08	1.85E-09	7.80E-09	3.73E-12	0.00E+00	9.65E-09	1.14E-09	3.58E-09	8.65E-13	0.00E+00	4.72E-09
1373	420224.78	3734383.32	1.54E-08	6.48E-08	2.85E-11	0.00E+00	8.02E-08	2.11E-09	8.87E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.84E-13	0.00E+00	5.37E-09
1374	420224.99	3734400.68	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.95E-08	2.09E-09	8.78E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.04E-09	9.75E-13	0.00E+00	5.32E-09
1375	420197.47	3734343.65	1.38E-08	5.84E-08	2.56E-11	0.00E+00	7.23E-08	1.90E-09	7.99E-09	3.82E-12	0.00E+00	9.89E-09	1.16E-09	3.67E-09	8.86E-13	0.00E+00	4.84E-09
1376	420203.87	3734327.91	1.44E-08	6.07E-08	2.66E-11	0.00E+00	7.51E-08	1.97E-09	8.30E-09	3.97E-12	0.00E+00	1.03E-08	1.21E-09	3.82E-09	9.21E-13	0.00E+00	5.03E-09

1377	420210.27	3734312.17	1.49E-08	6.31E-08	2.77E-11	0.00E+00	7.81E-08	2.05E-09	8.63E-09	4.12E-12	0.00E+00	1.07E-08	1.26E-09	3.96E-09	9.57E-13	0.00E+00	5.22E-09
1378	420267.84	3734170.49	1.82E-08	7.68E-08	3.37E-11	0.00E+00	9.50E-08	2.49E-09	1.05E-08	5.02E-12	0.00E+00	1.30E-08	1.53E-09	4.83E-09	1.17E-12	0.00E+00	6.36E-09
1379	420280.64	3734139.01	1.78E-08	7.53E-08	3.30E-11	0.00E+00	9.32E-08	2.44E-09	1.03E-08	4.92E-12	0.00E+00	1.27E-08	1.50E-09	4.73E-09	1.14E-12	0.00E+00	6.23E-09
1380	420287.04	3734123.26	1.75E-08	7.38E-08	3.24E-11	0.00E+00	9.13E-08	2.40E-09	1.01E-08	4.82E-12	0.00E+00	1.25E-08	1.47E-09	4.64E-09	1.12E-12	0.00E+00	6.11E-09
1381	420293.44	3734107.52	1.70E-08	7.20E-08	3.16E-11	0.00E+00	8.90E-08	2.34E-09	9.84E-09	4.70E-12	0.00E+00	1.22E-08	1.43E-09	4.52E-09	1.09E-12	0.00E+00	5.96E-09
1382	420299.83	3734091.78	1.65E-08	6.98E-08	3.06E-11	0.00E+00	8.63E-08	2.27E-09	9.54E-09	4.56E-12	0.00E+00	1.18E-08	1.39E-09	4.39E-09	1.06E-12	0.00E+00	5.78E-09
1383	420306.23	3734076.04	1.60E-08	6.74E-08	2.96E-11	0.00E+00	8.33E-08	2.19E-09	9.21E-09	4.40E-12	0.00E+00	1.14E-08	1.34E-09	4.23E-09	1.02E-12	0.00E+00	5.58E-09
1384	420312.63	3734060.3	1.53E-08	6.47E-08	2.84E-11	0.00E+00	8.00E-08	2.10E-09	8.85E-09	4.23E-12	0.00E+00	1.10E-08	1.29E-09	4.07E-09	9.82E-13	0.00E+00	5.36E-09
1385	420366.21	3734025.26	1.44E-08	6.07E-08	2.66E-11	0.00E+00	7.51E-08	1.97E-09	8.30E-09	3.97E-12	0.00E+00	1.03E-08	1.21E-09	3.81E-09	9.21E-13	0.00E+00	5.02E-09
1386	420421.26	3734002.75	1.35E-08	5.71E-08	2.51E-11	0.00E+00	7.06E-08	1.85E-09	7.81E-09	3.73E-12	0.00E+00	9.66E-09	1.14E-09	3.59E-09	8.66E-13	0.00E+00	4.73E-09
1387	420436.99	3733996.32	1.32E-08	5.59E-08	2.45E-11	0.00E+00	6.92E-08	1.82E-09	7.65E-09	3.66E-12	0.00E+00	9.47E-09	1.11E-09	3.52E-09	8.49E-13	0.00E+00	4.63E-09
1388	420468.44	3733983.46	1.27E-08	5.36E-08	2.35E-11	0.00E+00	6.64E-08	1.74E-09	7.33E-09	3.50E-12	0.00E+00	9.08E-09	1.07E-09	3.37E-09	8.14E-13	0.00E+00	4.44E-09
1389	420484.17	3733977.03	1.25E-08	5.26E-08	2.31E-11	0.00E+00	6.50E-08	1.71E-09	7.19E-09	3.44E-12	0.00E+00	8.90E-09	1.05E-09	3.30E-09	7.98E-13	0.00E+00	4.35E-09
1390	420515.63	3733964.17	1.20E-08	5.07E-08	2.23E-11	0.00E+00	6.28E-08	1.65E-09	6.94E-09	3.32E-12	0.00E+00	8.59E-09	1.01E-09	3.19E-09	7.70E-13	0.00E+00	4.20E-09
1391	420531.35	3733957.74	1.18E-08	5.00E-08	2.19E-11	0.00E+00	6.18E-08	1.62E-09	6.83E-09	3.26E-12	0.00E+00	8.46E-09	9.95E-10	3.14E-09	7.58E-13	0.00E+00	4.14E-09
1392	420547.08	3733951.31	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.74E-09	3.22E-12	0.00E+00	8.34E-09	9.82E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
1393	420633.59	3733915.93	1.11E-08	4.69E-08	2.06E-11	0.00E+00	5.81E-08	1.52E-09	6.42E-09	3.07E-12	0.00E+00	7.95E-09	9.35E-10	2.95E-09	7.12E-13	0.00E+00	3.89E-09
1394	420184.78	3734383.81	1.28E-08	5.39E-08	2.36E-11	0.00E+00	6.66E-08	1.75E-09	7.37E-09	3.52E-12	0.00E+00	9.12E-09	1.07E-09	3.39E-09	8.17E-13	0.00E+00	4.46E-09
1395	420184.99	3734401.17	1.26E-08	5.34E-08	2.34E-11	0.00E+00	6.60E-08	1.73E-09	7.30E-09	3.49E-12	0.00E+00	9.03E-09	1.06E-09	3.35E-09	8.10E-13	0.00E+00	4.42E-09
1396	420157.66	3734343.68	1.16E-08	4.91E-08	2.15E-11	0.00E+00	6.07E-08	1.59E-09	6.71E-09	3.21E-12	0.00E+00	8.31E-09	9.78E-10	3.08E-09	7.45E-13	0.00E+00	4.06E-09
1397	420164.15	3734327.71	1.21E-08	5.09E-08	2.23E-11	0.00E+00	6.30E-08	1.65E-09	6.96E-09	3.33E-12	0.00E+00	8.62E-09	1.01E-09	3.20E-09	7.72E-13	0.00E+00	4.21E-09
1398	420170.64	3734311.74	1.25E-08	5.28E-08	2.32E-11	0.00E+00	6.53E-08	1.71E-09	7.22E-09	3.45E-12	0.00E+00	8.94E-09	1.05E-09	3.32E-09	8.01E-13	0.00E+00	4.37E-09
1399	420216.07	3734199.96	1.54E-08	6.50E-08	2.85E-11	0.00E+00	8.05E-08	2.11E-09	8.89E-09	4.25E-12	0.00E+00	1.10E-08	1.30E-09	4.09E-09	9.87E-13	0.00E+00	5.38E-09
1400	420222.56	3734183.99	1.56E-08	6.59E-08	2.89E-11	0.00E+00	8.16E-08	2.14E-09	9.01E-09	4.31E-12	0.00E+00	1.12E-08	1.31E-09	4.14E-09	1.00E-12	0.00E+00	5.46E-09
1401	420242.03	3734136.08	1.57E-08	6.63E-08	2.91E-11	0.00E+00	8.20E-08	2.15E-09	9.06E-09	4.33E-12	0.00E+00	1.12E-08	1.32E-09	4.17E-09	1.01E-12	0.00E+00	5.49E-09
1402	420261.5	3734088.17	1.50E-08	6.31E-08	2.77E-11	0.00E+00	7.81E-08	2.05E-09	8.63E-09	4.13E-12	0.00E+00	1.07E-08	1.26E-09	3.97E-09	9.58E-13	0.00E+00	5.23E-09
1403	420268	3734072.2	1.46E-08	6.15E-08	2.70E-11	0.00E+00	7.60E-08	2.00E-09	8.40E-09	4.02E-12	0.00E+00	1.04E-08	1.22E-09	3.86E-09	9.32E-13	0.00E+00	5.09E-09
1404	420274.49	3734056.23	1.41E-08	5.95E-08	2.61E-11	0.00E+00	7.37E-08	1.93E-09	8.14E-09	3.89E-12	0.00E+00	1.01E-08	1.19E-09	3.74E-09	9.03E-13	0.00E+00	4.93E-09
1405	420287.47	3734024.29	1.31E-08	5.52E-08	2.42E-11	0.00E+00	6.82E-08	1.79E-09	7.54E-09	3.60E-12	0.00E+00	9.34E-09	1.10E-09	3.47E-09	8.37E-13	0.00E+00	4.57E-09
1406	420298.69	3734013.04	1.28E-08	5.40E-08	2.37E-11	0.00E+00	6.68E-08	1.75E-09	7.38E-09	3.53E-12	0.00E+00	9.13E-09	1.08E-09	3.39E-09	8.19E-13	0.00E+00	4.47E-09
1407	420338.58	3733996.73	1.26E-08	5.30E-08	2.33E-11	0.00E+00	6.56E-08	1.72E-09	7.25E-09	3.46E-12	0.00E+00	8.97E-09	1.06E-09	3.33E-09	8.04E-13	0.00E+00	4.39E-09
1408	420354.54	3733990.21	1.24E-08	5.23E-08	2.30E-11	0.00E+00	6.47E-08	1.70E-09	7.15E-09	3.42E-12	0.00E+00	8.85E-09	1.04E-09	3.29E-09	7.94E-13	0.00E+00	4.33E-09
1409	420394.43	3733973.89	1.19E-08	5.00E-08	2.20E-11	0.00E+00	6.19E-08	1.62E-09	6.84E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.15E-09	7.59E-13	0.00E+00	4.14E-09
1410	420410.38	3733967.37	1.16E-08	4.90E-08	2.15E-11	0.00E+00	6.07E-08	1.59E-09	6.71E-09	3.21E-12	0.00E+00	8.30E-09	9.77E-10	3.08E-09	7.44E-13	0.00E+00	4.06E-09
1411	420442.29	3733954.32	1.11E-08	4.71E-08	2.06E-11	0.00E+00	5.82E-08	1.53E-09	6.43E-09	3.08E-12	0.00E+00	7.97E-09	9.38E-10	2.96E-09	7.14E-13	0.00E+00	3.90E-09
1412	420522.07	3733921.7	1.02E-08	4.32E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.31E-09	8.60E-10	2.71E-09	6.55E-13	0.00E+00	3.57E-09
1413	420538.03	3733915.18	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.83E-09	2.79E-12	0.00E+00	7.22E-09	8.49E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
1414	420633.77	3733876.03	9.64E-09	4.07E-08	1.79E-11	0.00E+00	5.04E-08	1.32E-09	5.57E-09	2.66E-12	0.00E+00	6.89E-09	8.11E-10	2.56E-09	6.18E-13	0.00E+00	3.37E-09
1415	420144.78	3734384.3	1.08E-08	4.54E-08	1.99E-11	0.00E+00	5.62E-08	1.47E-09	6.21E-09	2.97E-12	0.00E+00	7.69E-09	9.05E-10	2.86E-09	6.89E-13	0.00E+00	3.76E-09
1416	420145	3734401.66	1.07E-08	4.50E-08	1.98E-11	0.00E+00	5.57E-08	1.46E-09	6.16E-09	2.94E-12	0.00E+00	7.62E-09	8.97E-10	2.83E-09	6.83E-13	0.00E+00	3.73E-09
1417	420117.56	3734344.44	9.87E-09	4.17E-08	1.83E-11	0.00E+00	5.16E-08	1.35E-09	5.70E-09	2.72E-12	0.00E+00	7.06E-09	8.31E-10	2.62E-09	6.33E-13	0.00E+00	3.45E-09
1418	420123.99	3734328.6	1.02E-08	4.31E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.30E-09	8.60E-10	2.71E-09	6.54E-13	0.00E+00	3.57E-09
1419	420130.43	3734312.76	1.06E-08	4.47E-08	1.96E-11	0.00E+00	5.53E-08	1.45E-09	6.11E-09	2.92E-12	0.00E+00	7.56E-09	8.90E-10	2.81E-09	6.78E-13	0.00E+00	3.70E-09
1420	420175.49	3734201.88	1.31E-08	5.55E-08	2.43E-11	0.00E+00	6.86E-08	1.80E-09	7.58E-09	3.62E-12	0.00E+00	9.39E-09	1.10E-09	3.49E-09	8.41E-13	0.00E+00	4.59E-09
1421	420181.93	3734186.04	1.34E-08	5.65E-08	2.48E-11	0.00E+00	6.99E-08	1.84E-09	7.73E-09	3.69E-12	0.00E+00	9.57E-09	1.13E-09	3.55E-09	8.58E-13	0.00E+00	4.68E-09
1422	420188.37	3734170.2	1.36E-08	5.74E-08	2.52E-11	0.00E+00	7.10E-08	1.86E-09	7.85E-09	3.75E-12	0.00E+00	9.71E-09	1.14E-09	3.61E-09	8.70E-13	0.00E+00	4.75E-09
1423	420201.24	3734138.52	1.38E-08	5.82E-08	2.55E-11	0.00E+00	7.20E-08	1.89E-09	7.96E-09	3.80E-12	0.00E+00	9.85E-09	1.16E-09	3.66E-09	8.83E-13	0.00E+00	4.82E-09
1424	420207.68	3734122.68	1.38E-08	5.82E-08	2.55E-11	0.00E+00	7.20E-08	1.89E-09	7.95E-09	3.80E-12	0.00E+00	9.85E-09	1.16E-09	3.66E-09	8.83E-13	0.00E+00	4.82E-09
1425	420214.12	3734106.84	1.37E-08	5.78E-08	2.54E-11	0.00E+00	7.15E-08	1.88E-09	7.91E-09	3.78E-12	0.00E+00	9.79E-09	1.15E-09	3.63E-09	8.77E-13	0.00E+00	4.79E-09
1426	420220.55	3734091	1.35E-08	5.72E-08	2.51E-11	0.00E+00	7.07E-08	1.86E-09	7.82E-09	3.74E-12	0.00E+00	9.68E-09	1.14E-09	3.59E-09	8.67E-13	0.00E+00	4.73E-09
1427	420226.99	3734075.17	1.33E-08	5.62E-08	2.47E-11	0.00E+00	6.96E-08	1.83E-09	7.69E-09	3.67E-12	0.00E+00	9.52E-09	1.12E-09	3.53E-09	8.53E-13	0.00E+00	4.65E-09
1428	420233.43	3734059.33	1.30E-08	5.50E-08	2.42E-11	0.00E+00	6.81E-08	1.79E-09	7.53E-09	3.60E-12	0.00E+00	9.32E-09	1.10E-09	3.46E-09	8.35E-13	0.00E+00	4.56E-09
1429	420270.31	3733984.81	1.13E-08	4.75E-08	2.09E-11	0.00E+00	5.88E-08	1.54E-09	6.50E-09	3.11E-12	0.00E+00	8.05E-09	9.47E-10	2.99E-09	7.21E-13	0.00E+00	3.94E-09
1430	420286.14	3733978.34	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.86E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.02E-09	9.44E-10	2.98E-09	7.19E-13	0.00E+00	3.92E-09
1431	420317.79	3733965.4	1.10E-08	4.65E-08	2.04E-11	0.00E+00	5.76E-08	1.51E-09	6.36E-09	3.04E-12	0.00E+00	7.87E-09	9.27E-10	2.92E-09	7.06E-13	0.00E+00	3.85E-09
1432	420333.61	3733958.93	1.09E-08	4.59E-08	2.01E-11	0.00E+00	5.68E-08	1.49E-09	6.28E-09	3.00E-12	0.00E+00	7.77E-09	9.14E-10	2.88E-09	6.96E-13	0.00E+00	3.80E-09
1433	420420.65	3733923.34	9.82E-09	4.15E-08	1.82E-11	0.00E+00	5.13E-08	1.35E-09	5.67E-09	2.71E-12	0.00E+00	7.02E-09	8.26E-10	2.61E-09	6.29E-13	0.00E+00	3.43E-09
1434	420436.48	3733916.87	9.63E-09	4.07E-08	1.78E-11	0.00E+00	5.03E-08	1.32E-09	5.56E-09	2.66E-12	0.00E+00	6.88E-09	8.10E-10	2.56E-09	6.17E-13	0.00E+00	3.37E-09
1435	420452.31	3733910.4	9.45E-09	3.99E-08	1.75E-11	0.00E+00	4.94E-08	1.30E-09	5.46E-09	2.61E-12	0.00E+00	6.76E-09	7.95E-10	2.51E-09	6.06E-13	0.00E+00	3.30E-09
1436	420468.13	3733903.92	9.29E-09	3.92E-08	1.72E-11	0.00E+00	4.85E-08	1.27E-09	5.37E-09	2.56E-12	0.00E+00	6.64E-09	7.82E-10	2.47E-09	5.95E-13	0.00E+00	3.25E-09
1437	420483.96	3733897.45	9.15E-09	3.86E-08	1.70E-11	0.00E+00	4.78E-08	1.25E-09	5.28E-09	2.53E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.86E-13	0.00E+00	3.20E-09
1438	420499.78	3733890.98	9.03E-09	3.81E-08	1.67E-11	0.00E+00	4.72E-08	1.24E-09	5.21E-09	2.49E-12	0.00E+00	6.45E-09	7.60E-10	2.40E-09	5.78E-13	0.00E+00	3.16E-09
1439	420515.61	3733884.51	8.92E-09	3.77E-08	1.65E-11	0.00E+00	4.66E-08	1.22E-09	5.15E-09	2.46E-12	0.00E+00	6.38E-09	7.51E-10	2.37E-09	5.72E-13	0.00E+00	3.12E-09
1440	420602.65	3733848.92	8.55E-09	3.61E-08	1.58E-11	0.00E+00	4.47E-08	1.17E-09	4.94E-09	2.36E-12	0.00E+00	6.11E-09	7.19E-10	2.27E-09	5.48E-13	0.00E+00	2.99E-09
1441	420104.68	3734376.12	9.23E-09	3.90E-08	1.71E-11	0.00E+00	4.82E-08	1.27E-09	5.33E-09	2.55E-12	0.00E+00	6.60E-09	7.77E-10	2.45E-09	5.92E-13	0.00E+00	3.23E-09
1442	420104.89	3734393.48	9.16E-09	3.87E-08	1.70E-11	0.00E+00	4.78E-08	1.26E-09	5.29E-09	2.53E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.87E-13	0.00E+00	3.20E-09
1443	420077.71	3734344.54	8.50E-09	3.59E-08	1.58E-11	0.00E+00	4.44E-08	1.17E-09	4.91E-09	2.35E-12	0.00E+00	6.08E-09	7.15E-10	2.26E-09	5.45E-13	0.00E+00	2.97E-09
1444	420084.23	3734328.51	8.78E-09	3.71E-08	1.63E-11	0.00E+00	4.59E-08	1.20E-09	5.07E-09	2.42E-12	0.00E+00	6.28E-09	7.39E-10	2.33E-09	5.63E-13	0.00E+00	3.07E-09
1445	420090.75	3734312.48	9.08E-09	3.83E-08	1.68E-11	0.00E+00	4.74E-08	1.24E-09	5.24E-09	2.50E-12	0.00E+00	6.49E-09	7.64E-10	2.41E-09	5.81E-13	0.00E+00	3.17E-09
1446	420146.13	3734176.22	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.75E-09	3.22E-12	0.00E+00	8.35E-09	9.83E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
1447	420159.16	3734144.15	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.29E-08	1.65E-09	6.95E-09	3.32E-12	0.00E+00	8.61E-09	1.01E-09	3.20E-09	7.71E-13	0.00E+00	4.21E-09
1448	420165.67	3734128.12	1.21E-08	5.13E-08	2.25E-11	0.00E+00	6.34E-08	1.66E-09	7.01E-09	3.35E-12	0.00E+00	8.68E-09	1.02E-09	3.22E-09	7.78E-13	0.00E+00	4.24E-09
1449	420172.19	3734112.09	1.22E-08	5.14E-08	2.26E-11	0.00E+00	6.36E-08	1.67E-09	7.03E-09	3.36E-12	0.00E+00	8.70E-09	1.02E-09	3.23E-09	7.80E-13	0.00E+00	4.25E-09
1450	420178.7	3734096.06	1.21E-08	5.13E-08	2.25E-11	0.00E+00	6.34E-08	1.66E-09	7.01E-09	3.35E-12	0.00E+00	8.68E-09	1.02E-09	3.22E-09	7.78E-13	0.00E+00	4.25E-09
1451	420185.22	3734080.03	1.21E-08	5.09E-08	2.23E-11	0.00E+00	6.30E-08	1.65E-09	6.96E-09	3.33E-12	0.00E+00	8.62E-09	1.01E-09	3.20E-09	7.73E-13	0.00E+00	4.22E-09
1452	420191.73	3734064	1.19E-08	5.04E-08	2.21E-11	0.00E+00	6.23E-08	1.63E-09	6.89E-09	3.29E-12	0.00E+00	8.52E-09	1.00E-09	3.16E-09	7.64E-13	0.00E+00	4.17E-09
1453	420204.76	3734031.93	1.15E-08	4.85E-08	2.13E-11	0.00E+00	6.00E-08	1.58E-09	6.64E-09	3.17E-12	0.00E+00	8.21E-09	9.67E-10	3.05E-09	7.36E-13	0.00E+00	4.02E-09
1454	420211.28	3734015.9	1.12E-08	4.73E-08	2.08E-11	0.00E+00	5.86E-08	1.54E-09	6.47E-09	3.09E-12	0.00E+00	8.01E-09	9.43E-10	2.98E-09	7.18E-13	0.00E+00	3.92E-09
1455	420217.79	3733999.87	1.09E-08	4.60E-08	2.02E-11	0.00E+00	5.69E-08	1.49E-09	6.29E-09	3.01E-12	0.00E+00	7.79E-09	9.17E-10	2.89E-09	6.98E-13	0.00E+00	3.81E-09
1456	420242.09	3733956.52	1.00E-08	4.22E-08	1.85E-11	0.00E+00	5.23E-08	1.37E-09	5.78E-09	2.76E-12	0.00E+00	7.15E-09	8.42E-10	2.65E-09	6.41E-13	0.00E+00	3.50E-09
1457	420346.2	3733913.95	9.30E-09	3.93E-08	1.72E-11	0.00E+00	4.86E-08	1.27E-09	5.37E-09	2.57E-12	0.00E+00	6.65E-09	7.82E-10	2.47E-09	5.96E-13	0.00E+00	3.25E-09
1458	420362.22	3733907.4	9.13E-09	3.85E-08	1.69E-11	0.00E+00	4.77E-08	1.25E-09	5.27E-09	2.52E-12	0.00E+00	6.52E-09	7.68E-10	2.42E-09	5.85E-13	0.00E+00	3.19E-09
1459	420394.26	3733894.3	8.78E-09	3.71E-08	1.63E-11	0.00E+00	4.59E-08	1.20E-09	5.07E-09	2.42E-12	0.00E+00	6.28E-09	7.39E-10	2.33E-09	5.63E-13	0.00E+00	3.07E-09
1460	420410.27	3733887.75	8.62E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
1461	420426.29	3733881.2	8.46E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.05E-09	7.12E-10	2.24E-09	5.42E-13	0.00E+00	2.96E-09
1462	420442.31	3733874.65	8.31E-09	3.51E-08	1.54E-11	0.00E+00	4.34E-08	1.14E-09	4.80E-09	2.29E-12	0.00E+00	5.94E-09	6.99E-10	2.21E-09	5.33E-13	0.00E+00	2.91E-09
1463	420458.33	3733868.1	8.18E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.72E-09	2.26E-12	0.00E+00	5.85E-09	6.88E-10	2.17E-09	5.24E-13	0.00E+00	2.86E-09
1464	420474.34	3733861.55	8.07E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.66E-09	2.23E-12	0.00E+00	5.77E-09	6.79E-10	2.14E-09	5.17E-13	0.00E+00	2.82E-09
1465	420490.36	3733855	7.97E-09	3.37E-08	1.48E-11	0.00E+00	4.16E-08	1.09E-09	4.60E-09	2.20E-12	0.00E+00	5.70E-09	6.71E-10	2.12E-09	5.11E-13	0.00E+00	2.79E-09
1466	420506.38	3733848.45	7.88E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.55E-09	2.18E-12	0.00E+00	5.64E-09	6.63E-10	2.09E-09	5.05E-13	0.00E+00	2.76E-09
1467	420586.47	3733815.71	7.61E-09	3.21E-08	1.41E-11	0.00E+00	3.98E-08	1.04E-09	4.40E-09	2.10E-12	0.00E+00	5.44E-09	6.40E-10	2.02E-09	4.88E-13	0.00E+00	2.66E-09
1468	420602.48	3733809.16	7.58E-09	3.20E-08	1.40E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.85E-13	0.00E+00	2.65E-09

1469	420634.52	3733796.06	7.51E-09	3.17E-08	1.39E-11	0.00E+00	3.93E-08	1.03E-09	4.34E-09	2.07E-12	0.00E+00	5.37E-09	6.32E-10	1.99E-09	4.81E-13	0.00E+00	2.63E-09
1470	420064.68	3734376.61	7.98E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.09E-09	4.61E-09	2.20E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.11E-13	0.00E+00	2.79E-09
1471	420064.9	3734393.97	7.92E-09	3.34E-08	1.47E-11	0.00E+00	4.14E-08	1.09E-09	4.57E-09	2.19E-12	0.00E+00	5.66E-09	6.66E-10	2.10E-09	5.07E-13	0.00E+00	2.77E-09
1472	420031.15	3734361.19	7.18E-09	3.03E-08	1.33E-11	0.00E+00	3.75E-08	9.84E-10	4.15E-09	1.98E-12	0.00E+00	5.13E-09	6.04E-10	1.91E-09	4.60E-13	0.00E+00	2.51E-09
1473	420037.62	3734345.27	7.40E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.29E-09	6.22E-10	1.96E-09	4.74E-13	0.00E+00	2.59E-09
1474	420044.09	3734329.36	7.62E-09	3.22E-08	1.41E-11	0.00E+00	3.98E-08	1.05E-09	4.40E-09	2.10E-12	0.00E+00	5.45E-09	6.41E-10	2.02E-09	4.88E-13	0.00E+00	2.66E-09
1475	420050.56	3734313.45	7.86E-09	3.32E-08	1.46E-11	0.00E+00	4.11E-08	1.08E-09	4.54E-09	2.17E-12	0.00E+00	5.62E-09	6.61E-10	2.09E-09	5.04E-13	0.00E+00	2.75E-09
1476	420095.83	3734202.06	9.75E-09	4.12E-08	1.81E-11	0.00E+00	5.09E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.20E-10	2.59E-09	6.24E-13	0.00E+00	3.41E-09
1477	420102.29	3734186.14	9.99E-09	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.77E-09	2.76E-12	0.00E+00	7.14E-09	8.41E-10	2.65E-09	6.40E-13	0.00E+00	3.49E-09
1478	420108.76	3734170.23	1.02E-08	4.32E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.31E-09	8.60E-10	2.71E-09	6.55E-13	0.00E+00	3.57E-09
1479	420121.69	3734138.41	1.06E-08	4.47E-08	1.96E-11	0.00E+00	5.53E-08	1.45E-09	6.12E-09	2.92E-12	0.00E+00	7.57E-09	8.91E-10	2.81E-09	6.78E-13	0.00E+00	3.70E-09
1480	420128.16	3734122.49	1.07E-08	4.53E-08	1.99E-11	0.00E+00	5.60E-08	1.47E-09	6.19E-09	2.96E-12	0.00E+00	7.66E-09	9.02E-10	2.85E-09	6.87E-13	0.00E+00	3.75E-09
1481	420147.56	3734074.75	1.08E-08	4.57E-08	2.00E-11	0.00E+00	5.65E-08	1.48E-09	6.25E-09	2.99E-12	0.00E+00	7.73E-09	9.10E-10	2.87E-09	6.93E-13	0.00E+00	3.78E-09
1482	420154.03	3734058.84	1.08E-08	4.54E-08	1.99E-11	0.00E+00	5.62E-08	1.47E-09	6.21E-09	2.97E-12	0.00E+00	7.69E-09	9.05E-10	2.85E-09	6.89E-13	0.00E+00	3.76E-09
1483	420166.97	3734027.02	1.05E-08	4.43E-08	1.94E-11	0.00E+00	5.48E-08	1.44E-09	6.06E-09	2.90E-12	0.00E+00	7.50E-09	8.83E-10	2.79E-09	6.72E-13	0.00E+00	3.67E-09
1484	420173.43	3734011.1	1.03E-08	4.35E-08	1.91E-11	0.00E+00	5.38E-08	1.41E-09	5.95E-09	2.84E-12	0.00E+00	7.37E-09	8.67E-10	2.74E-09	6.60E-13	0.00E+00	3.60E-09
1485	420179.9	3733995.19	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.82E-09	2.78E-12	0.00E+00	7.21E-09	8.48E-10	2.68E-09	6.46E-13	0.00E+00	3.52E-09
1486	420213.72	3733928.29	8.96E-09	3.78E-08	1.66E-11	0.00E+00	4.68E-08	1.23E-09	5.17E-09	2.47E-12	0.00E+00	6.40E-09	7.54E-10	2.38E-09	5.74E-13	0.00E+00	3.13E-09
1487	420229.62	3733921.79	8.94E-09	3.77E-08	1.66E-11	0.00E+00	4.67E-08	1.22E-09	5.16E-09	2.47E-12	0.00E+00	6.39E-09	7.52E-10	2.37E-09	5.72E-13	0.00E+00	3.12E-09
1488	420269.36	3733905.54	8.77E-09	3.70E-08	1.62E-11	0.00E+00	4.58E-08	1.20E-09	5.06E-09	2.42E-12	0.00E+00	6.27E-09	7.38E-10	2.33E-09	5.62E-13	0.00E+00	3.06E-09
1489	420285.26	3733899.03	8.66E-09	3.66E-08	1.60E-11	0.00E+00	4.52E-08	1.19E-09	5.00E-09	2.39E-12	0.00E+00	6.19E-09	7.29E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09
1490	420317.06	3733886.03	8.40E-09	3.55E-08	1.56E-11	0.00E+00	4.39E-08	1.15E-09	4.85E-09	2.32E-12	0.00E+00	6.00E-09	7.06E-10	2.23E-09	5.38E-13	0.00E+00	2.94E-09
1491	420332.96	3733879.53	8.25E-09	3.48E-08	1.53E-11	0.00E+00	4.31E-08	1.13E-09	4.76E-09	2.28E-12	0.00E+00	5.90E-09	6.94E-10	2.19E-09	5.28E-13	0.00E+00	2.88E-09
1492	420364.76	3733866.53	7.95E-09	3.36E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.59E-09	2.19E-12	0.00E+00	5.68E-09	6.69E-10	2.11E-09	5.09E-13	0.00E+00	2.78E-09
1493	420396.56	3733853.53	7.66E-09	3.24E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.48E-09	6.45E-10	2.03E-09	4.91E-13	0.00E+00	2.68E-09
1494	420412.46	3733847.03	7.53E-09	3.18E-08	1.40E-11	0.00E+00	3.94E-08	1.03E-09	4.35E-09	2.08E-12	0.00E+00	5.38E-09	6.34E-10	2.00E-09	4.83E-13	0.00E+00	2.63E-09
1495	420428.36	3733840.53	7.42E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.05E-12	0.00E+00	5.30E-09	6.24E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
1496	420444.25	3733834.02	7.31E-09	3.09E-08	1.35E-11	0.00E+00	3.82E-08	1.00E-09	4.22E-09	2.02E-12	0.00E+00	5.22E-09	6.15E-10	1.94E-09	4.68E-13	0.00E+00	2.55E-09
1497	420460.15	3733827.52	7.21E-09	3.04E-08	1.34E-11	0.00E+00	3.77E-08	9.89E-10	4.16E-09	1.99E-12	0.00E+00	5.15E-09	6.07E-10	1.91E-09	4.62E-13	0.00E+00	2.52E-09
1498	420476.05	3733821.02	7.13E-09	3.01E-08	1.32E-11	0.00E+00	3.72E-08	9.77E-10	4.11E-09	1.97E-12	0.00E+00	5.09E-09	5.99E-10	1.89E-09	4.56E-13	0.00E+00	2.49E-09
1499	420491.95	3733814.52	7.05E-09	2.98E-08	1.31E-11	0.00E+00	3.68E-08	9.67E-10	4.07E-09	1.95E-12	0.00E+00	5.04E-09	5.93E-10	1.87E-09	4.52E-13	0.00E+00	2.47E-09
1500	420571.45	3733782.02	6.83E-09	2.89E-08	1.27E-11	0.00E+00	3.57E-08	9.37E-10	3.95E-09	1.89E-12	0.00E+00	4.88E-09	5.75E-10	1.81E-09	4.38E-13	0.00E+00	2.39E-09
1501	420587.35	3733775.52	6.81E-09	2.87E-08	1.26E-11	0.00E+00	3.56E-08	9.33E-10	3.93E-09	1.88E-12	0.00E+00	4.86E-09	5.73E-10	1.81E-09	4.36E-13	0.00E+00	2.38E-09
1502	420603.24	3733769.01	6.78E-09	2.86E-08	1.26E-11	0.00E+00	3.54E-08	9.30E-10	3.92E-09	1.87E-12	0.00E+00	4.85E-09	5.71E-10	1.80E-09	4.34E-13	0.00E+00	2.37E-09
1503	420024.69	3734377.1	6.98E-09	2.95E-08	1.29E-11	0.00E+00	3.65E-08	9.56E-10	4.03E-09	1.93E-12	0.00E+00	4.99E-09	5.87E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
1504	420024.9	3734394.46	6.92E-09	2.92E-08	1.28E-11	0.00E+00	3.62E-08	9.49E-10	4.00E-09	1.91E-12	0.00E+00	4.95E-09	5.82E-10	1.84E-09	4.43E-13	0.00E+00	2.42E-09
1505	419987.96	3734369.55	6.25E-09	2.64E-08	1.16E-11	0.00E+00	3.26E-08	8.56E-10	3.61E-09	1.72E-12	0.00E+00	4.46E-09	5.25E-10	1.66E-09	4.00E-13	0.00E+00	2.18E-09
1506	419994.49	3734353.47	6.42E-09	2.71E-08	1.19E-11	0.00E+00	3.35E-08	8.80E-10	3.71E-09	1.77E-12	0.00E+00	4.59E-09	5.40E-10	1.70E-09	4.11E-13	0.00E+00	2.24E-09
1507	420001.03	3734337.39	6.60E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.05E-10	3.81E-09	1.82E-12	0.00E+00	4.72E-09	5.55E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
1508	420007.56	3734321.32	6.79E-09	2.87E-08	1.26E-11	0.00E+00	3.55E-08	9.31E-10	3.92E-09	1.87E-12	0.00E+00	4.85E-09	5.71E-10	1.80E-09	4.35E-13	0.00E+00	2.37E-09
1509	420059.84	3734192.69	8.62E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
1510	420066.37	3734176.61	8.84E-09	3.73E-08	1.64E-11	0.00E+00	4.62E-08	1.21E-09	5.11E-09	2.44E-12	0.00E+00	6.32E-09	7.44E-10	2.35E-09	5.66E-13	0.00E+00	3.09E-09
1511	420079.44	3734144.46	9.24E-09	3.90E-08	1.71E-11	0.00E+00	4.83E-08	1.27E-09	5.34E-09	2.55E-12	0.00E+00	6.61E-09	7.77E-10	2.45E-09	5.92E-13	0.00E+00	3.23E-09
1512	420085.97	3734128.38	9.41E-09	3.97E-08	1.74E-11	0.00E+00	4.92E-08	1.29E-09	5.43E-09	2.60E-12	0.00E+00	6.73E-09	7.92E-10	2.50E-09	6.03E-13	0.00E+00	3.29E-09
1513	420092.51	3734112.3	9.54E-09	4.03E-08	1.77E-11	0.00E+00	4.99E-08	1.31E-09	5.51E-09	2.63E-12	0.00E+00	6.82E-09	8.03E-10	2.53E-09	6.11E-13	0.00E+00	3.34E-09
1514	420099.04	3734096.22	9.64E-09	4.07E-08	1.79E-11	0.00E+00	5.04E-08	1.32E-09	5.57E-09	2.66E-12	0.00E+00	6.89E-09	8.11E-10	2.56E-09	6.18E-13	0.00E+00	3.37E-09
1515	420105.58	3734080.14	9.70E-09	4.09E-08	1.80E-11	0.00E+00	5.06E-08	1.33E-09	5.60E-09	2.68E-12	0.00E+00	6.93E-09	8.16E-10	2.57E-09	6.21E-13	0.00E+00	3.39E-09
1516	420112.11	3734064.07	9.71E-09	4.10E-08	1.80E-11	0.00E+00	5.07E-08	1.33E-09	5.61E-09	2.68E-12	0.00E+00	6.94E-09	8.17E-10	2.58E-09	6.22E-13	0.00E+00	3.40E-09
1517	420125.18	3734031.91	9.63E-09	4.07E-08	1.78E-11	0.00E+00	5.03E-08	1.32E-09	5.56E-09	2.66E-12	0.00E+00	6.88E-09	8.10E-10	2.56E-09	6.17E-13	0.00E+00	3.37E-09
1518	420131.71	3734015.83	9.53E-09	4.02E-08	1.77E-11	0.00E+00	4.98E-08	1.31E-09	5.50E-09	2.63E-12	0.00E+00	6.81E-09	8.02E-10	2.53E-09	6.10E-13	0.00E+00	3.33E-09
1519	420138.25	3733999.75	9.40E-09	3.97E-08	1.74E-11	0.00E+00	4.91E-08	1.29E-09	5.43E-09	2.59E-12	0.00E+00	6.72E-09	7.91E-10	2.49E-09	6.02E-13	0.00E+00	3.29E-09
1520	420144.78	3733983.68	9.23E-09	3.90E-08	1.71E-11	0.00E+00	4.82E-08	1.27E-09	5.33E-09	2.55E-12	0.00E+00	6.60E-09	7.77E-10	2.45E-09	5.92E-13	0.00E+00	3.23E-09
1521	420151.32	3733967.6	9.04E-09	3.82E-08	1.68E-11	0.00E+00	4.72E-08	1.24E-09	5.22E-09	2.50E-12	0.00E+00	6.46E-09	7.61E-10	2.40E-09	5.79E-13	0.00E+00	3.16E-09
1522	420157.85	3733951.52	8.83E-09	3.73E-08	1.64E-11	0.00E+00	4.61E-08	1.21E-09	5.10E-09	2.44E-12	0.00E+00	6.31E-09	7.43E-10	2.34E-09	5.66E-13	0.00E+00	3.09E-09
1523	420170.92	3733919.36	8.35E-09	3.53E-08	1.55E-11	0.00E+00	4.36E-08	1.14E-09	4.82E-09	2.30E-12	0.00E+00	5.97E-09	7.02E-10	2.22E-09	5.35E-13	0.00E+00	2.92E-09
1524	420185.49	3733900	8.09E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.67E-09	2.23E-12	0.00E+00	5.78E-09	6.80E-10	2.15E-09	5.18E-13	0.00E+00	2.83E-09
1525	420201.55	3733893.43	8.07E-09	3.41E-08	1.49E-11	0.00E+00	4.21E-08	1.11E-09	4.66E-09	2.23E-12	0.00E+00	5.77E-09	6.79E-10	2.14E-09	5.17E-13	0.00E+00	2.82E-09
1526	420241.71	3733877.01	7.93E-09	3.35E-08	1.47E-11	0.00E+00	4.14E-08	1.09E-09	4.58E-09	2.19E-12	0.00E+00	5.66E-09	6.67E-10	2.10E-09	5.08E-13	0.00E+00	2.77E-09
1527	420289.9	3733857.31	7.61E-09	3.21E-08	1.41E-11	0.00E+00	3.98E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.44E-09	6.40E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09
1528	420305.97	3733850.74	7.48E-09	3.16E-08	1.39E-11	0.00E+00	3.91E-08	1.03E-09	4.32E-09	2.06E-12	0.00E+00	5.35E-09	6.30E-10	1.99E-09	4.79E-13	0.00E+00	2.62E-09
1529	420338.1	3733837.6	7.22E-09	3.05E-08	1.34E-11	0.00E+00	3.77E-08	9.90E-10	4.17E-09	1.99E-12	0.00E+00	5.16E-09	6.08E-10	1.92E-09	4.63E-13	0.00E+00	2.52E-09
1530	420402.35	3733811.33	6.74E-09	2.85E-08	1.25E-11	0.00E+00	3.52E-08	9.24E-10	3.89E-09	1.86E-12	0.00E+00	4.82E-09	5.67E-10	1.79E-09	4.32E-13	0.00E+00	2.36E-09
1531	420418.42	3733804.76	6.64E-09	2.80E-08	1.23E-11	0.00E+00	3.47E-08	9.10E-10	3.83E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
1532	420434.48	3733798.19	6.55E-09	2.77E-08	1.21E-11	0.00E+00	3.42E-08	8.98E-10	3.78E-09	1.81E-12	0.00E+00	4.68E-09	5.51E-10	1.74E-09	4.20E-13	0.00E+00	2.29E-09
1533	420450.55	3733791.62	6.47E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.87E-10	3.74E-09	1.79E-12	0.00E+00	4.63E-09	5.45E-10	1.72E-09	4.15E-13	0.00E+00	2.26E-09
1534	420466.61	3733785.05	6.40E-09	2.70E-08	1.19E-11	0.00E+00	3.35E-08	8.78E-10	3.70E-09	1.77E-12	0.00E+00	4.58E-09	5.39E-10	1.70E-09	4.10E-13	0.00E+00	2.24E-09
1535	420554.96	3733748.93	6.18E-09	2.61E-08	1.15E-11	0.00E+00	3.23E-08	8.47E-10	3.57E-09	1.71E-12	0.00E+00	4.42E-09	5.20E-10	1.64E-09	3.96E-13	0.00E+00	2.16E-09
1536	420571.03	3733742.36	6.16E-09	2.60E-08	1.14E-11	0.00E+00	3.22E-08	8.44E-10	3.56E-09	1.70E-12	0.00E+00	4.40E-09	5.18E-10	1.63E-09	3.95E-13	0.00E+00	2.15E-09
1537	420587.09	3733735.79	6.14E-09	2.59E-08	1.14E-11	0.00E+00	3.21E-08	8.42E-10	3.55E-09	1.70E-12	0.00E+00	4.39E-09	5.17E-10	1.63E-09	3.93E-13	0.00E+00	2.15E-09
1538	420603.16	3733729.22	6.13E-09	2.59E-08	1.13E-11	0.00E+00	3.20E-08	8.40E-10	3.54E-09	1.69E-12	0.00E+00	4.38E-09	5.15E-10	1.63E-09	3.92E-13	0.00E+00	2.14E-09
1539	420619.22	3733722.65	6.11E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.38E-10	3.53E-09	1.69E-12	0.00E+00	4.37E-09	5.14E-10	1.62E-09	3.92E-13	0.00E+00	2.14E-09
1540	419984.8	3734386.27	6.14E-09	2.59E-08	1.14E-11	0.00E+00	3.21E-08	8.42E-10	3.54E-09	1.69E-12	0.00E+00	4.39E-09	5.16E-10	1.63E-09	3.93E-13	0.00E+00	2.15E-09
1541	419985.01	3734403.63	6.09E-09	2.57E-08	1.13E-11	0.00E+00	3.18E-08	8.35E-10	3.52E-09	1.68E-12	0.00E+00	4.35E-09	5.12E-10	1.62E-09	3.90E-13	0.00E+00	2.13E-09
1542	419947.94	3734370.1	5.56E-09	2.35E-08	1.03E-11	0.00E+00	2.90E-08	7.62E-10	3.21E-09	1.53E-12	0.00E+00	3.97E-09	4.68E-10	1.48E-09	3.56E-13	0.00E+00	1.94E-09
1543	419954.43	3734354.13	5.70E-09	2.41E-08	1.06E-11	0.00E+00	2.98E-08	7.82E-10	3.29E-09	1.57E-12	0.00E+00	4.08E-09	4.80E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
1544	419960.92	3734338.16	5.85E-09	2.47E-08	1.08E-11	0.00E+00	3.06E-08	8.02E-10	3.38E-09	1.61E-12	0.00E+00	4.18E-09	4.92E-10	1.55E-09	3.75E-13	0.00E+00	2.05E-09
1545	419967.41	3734322.19	6.01E-09	2.54E-08	1.11E-11	0.00E+00	3.14E-08	8.23E-10	3.47E-09	1.66E-12	0.00E+00	4.29E-09	5.05E-10	1.59E-09	3.85E-13	0.00E+00	2.10E-09
1546	419973.9	3734306.22	6.17E-09	2.61E-08	1.14E-11	0.00E+00	3.22E-08	8.46E-10	3.56E-09	1.70E-12	0.00E+00	4.41E-09	5.19E-10	1.64E-09	3.95E-13	0.00E+00	2.16E-09
1547	419980.39	3734290.25	6.35E-09	2.68E-08	1.18E-11	0.00E+00	3.32E-08	8.70E-10	3.66E-09	1.75E-12	0.00E+00	4.54E-09	5.34E-10	1.68E-09	4.06E-13	0.00E+00	2.22E-09
1548	419993.37	3734258.31	6.72E-09	2.84E-08	1.25E-11	0.00E+00	3.51E-08	9.21E-10	3.88E-09	1.85E-12	0.00E+00	4.80E-09	5.65E-10	1.78E-09	4.30E-13	0.00E+00	2.35E-09
1549	419999.86	3734242.34	6.92E-09	2.92E-08	1.28E-11	0.00E+00	3.61E-08	9.48E-10	3.99E-09	1.91E-12	0.00E+00	4.95E-09	5.82E-10	1.84E-09	4.43E-13	0.00E+00	2.42E-09
1550	420006.35	3734226.37	7.13E-09	3.01E-08	1.32E-11	0.00E+00	3.72E-08	9.77E-10	4.11E-09	1.97E-12	0.00E+00	5.09E-09	5.99E-10	1.89E-09	4.56E-13	0.00E+00	2.49E-09
1551	420012.84	3734210.4	7.33E-09	3.10E-08	1.36E-11	0.00E+00	3.83E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.95E-09	4.70E-13	0.00E+00	2.56E-09
1552	420019.33	3734194.43	7.54E-09	3.18E-08	1.40E-11	0.00E+00	3.94E-08	1.03E-09	4.35E-09	2.08E-12	0.00E+00	5.39E-09	6.34E-10	2.00E-09	4.83E-13	0.00E+00	2.63E-09
1553	420038.8	3734146.52	8.12E-09	3.43E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.69E-09	2.24E-12	0.00E+00	5.80E-09	6.83E-10	2.15E-09	5.20E-13	0.00E+00	2.84E-09
1554	420045.29	3734130.55	8.29E-09	3.50E-08	1.54E-11	0.00E+00	4.33E-08	1.14E-09	4.78E-09	2.29E-12	0.00E+00	5.92E-09	6.97E-10	2.20E-09	5.31E-13	0.00E+00	2.90E-09
1555	420051.78	3734114.58	8.44E-09	3.56E-08	1.56E-11	0.00E+00	4.41E-08	1.16E-09	4.87E-09	2.33E-12	0.00E+00	6.03E-09	7.10E-10	2.24E-09	5.41E-13	0.00E+00	2.95E-09
1556	420058.27	3734098.61	8.56E-09	3.61E-08	1.59E-11	0.00E+00	4.47E-08	1.17E-09	4.94E-09	2.36E-12	0.00E+00	6.12E-09	7.20E-10	2.27E-09	5.48E-13	0.00E+00	2.99E-09
1557	420064.76	3734082.64	8.66E-09	3.66E-08	1.60E-11	0.00E+00	4.52E-08	1.19E-09	5.00E-09	2.39E-12	0.00E+00	6.19E-09	7.28E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09
1558	420071.26	3734066.67	8.72E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.23E-09	7.34E-10	2.31E-09	5.59E-13	0.00E+00	3.05E-09
1559	420090.73	3734018.76	8.73E-09	3.69E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.34E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
1560	420097.22	3734002.79	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.00E-09	2.39E-12	0.00E+00	6.20E-09	7.29E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09

1561	420103.71	3733986.82	8.58E-09	3.62E-08	1.59E-11	0.00E+00	4.48E-08	1.18E-09	4.95E-09	2.37E-12	0.00E+00	6.13E-09	7.22E-10	2.28E-09	5.50E-13	0.00E+00	3.00E-09
1562	420110.2	3733970.85	8.46E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.89E-09	2.34E-12	0.00E+00	6.05E-09	7.12E-10	2.25E-09	5.42E-13	0.00E+00	2.96E-09
1563	420116.69	3733954.88	8.32E-09	3.51E-08	1.54E-11	0.00E+00	4.35E-08	1.14E-09	4.80E-09	2.30E-12	0.00E+00	5.94E-09	7.00E-10	2.21E-09	5.33E-13	0.00E+00	2.91E-09
1564	420142.65	3733891	7.56E-09	3.19E-08	1.40E-11	0.00E+00	3.95E-08	1.04E-09	4.37E-09	2.09E-12	0.00E+00	5.41E-09	6.36E-10	2.01E-09	4.85E-13	0.00E+00	2.64E-09
1565	420157.12	3733871.77	7.35E-09	3.10E-08	1.36E-11	0.00E+00	3.84E-08	1.01E-09	4.24E-09	2.03E-12	0.00E+00	5.25E-09	6.18E-10	1.95E-09	4.71E-13	0.00E+00	2.57E-09
1566	420173.07	3733865.24	7.33E-09	3.09E-08	1.36E-11	0.00E+00	3.83E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.94E-09	4.69E-13	0.00E+00	2.56E-09
1567	420189.03	3733858.72	7.30E-09	3.08E-08	1.35E-11	0.00E+00	3.81E-08	1.00E-09	4.21E-09	2.01E-12	0.00E+00	5.22E-09	6.14E-10	1.94E-09	4.67E-13	0.00E+00	2.55E-09
1568	420204.99	3733852.2	7.25E-09	3.06E-08	1.34E-11	0.00E+00	3.79E-08	9.93E-10	4.18E-09	2.00E-12	0.00E+00	5.18E-09	6.10E-10	1.92E-09	4.64E-13	0.00E+00	2.53E-09
1569	420220.94	3733845.67	7.18E-09	3.03E-08	1.33E-11	0.00E+00	3.75E-08	9.84E-10	4.15E-09	1.98E-12	0.00E+00	5.13E-09	6.04E-10	1.91E-09	4.60E-13	0.00E+00	2.51E-09
1570	420236.9	3733839.15	7.10E-09	3.00E-08	1.32E-11	0.00E+00	3.71E-08	9.73E-10	4.10E-09	1.96E-12	0.00E+00	5.07E-09	5.97E-10	1.88E-09	4.55E-13	0.00E+00	2.48E-09
1571	420316.68	3733806.53	6.56E-09	2.77E-08	1.22E-11	0.00E+00	3.43E-08	9.00E-10	3.79E-09	1.81E-12	0.00E+00	4.69E-09	5.52E-10	1.74E-09	4.20E-13	0.00E+00	2.29E-09
1572	420332.63	3733800	6.45E-09	2.72E-08	1.19E-11	0.00E+00	3.37E-08	8.84E-10	3.72E-09	1.78E-12	0.00E+00	4.61E-09	5.43E-10	1.71E-09	4.13E-13	0.00E+00	2.25E-09
1573	420348.59	3733793.48	6.34E-09	2.68E-08	1.18E-11	0.00E+00	3.31E-08	8.69E-10	3.66E-09	1.75E-12	0.00E+00	4.53E-09	5.34E-10	1.68E-09	4.06E-13	0.00E+00	2.22E-09
1574	420388.48	3733777.17	6.10E-09	2.57E-08	1.13E-11	0.00E+00	3.19E-08	8.36E-10	3.52E-09	1.68E-12	0.00E+00	4.36E-09	5.13E-10	1.62E-09	3.91E-13	0.00E+00	2.13E-09
1575	420404.44	3733770.64	6.02E-09	2.54E-08	1.11E-11	0.00E+00	3.14E-08	8.25E-10	3.47E-09	1.66E-12	0.00E+00	4.30E-09	5.06E-10	1.60E-09	3.85E-13	0.00E+00	2.10E-09
1576	420420.39	3733764.12	5.94E-09	2.51E-08	1.10E-11	0.00E+00	3.10E-08	8.14E-10	3.43E-09	1.64E-12	0.00E+00	4.25E-09	5.00E-10	1.58E-09	3.81E-13	0.00E+00	2.08E-09
1577	420436.35	3733757.59	5.87E-09	2.48E-08	1.09E-11	0.00E+00	3.07E-08	8.05E-10	3.39E-09	1.62E-12	0.00E+00	4.20E-09	4.94E-10	1.56E-09	3.76E-13	0.00E+00	2.05E-09
1578	420452.3	3733751.07	5.81E-09	2.45E-08	1.08E-11	0.00E+00	3.04E-08	7.97E-10	3.36E-09	1.60E-12	0.00E+00	4.15E-09	4.89E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
1579	420468.26	3733744.55	5.76E-09	2.43E-08	1.07E-11	0.00E+00	3.01E-08	7.90E-10	3.33E-09	1.59E-12	0.00E+00	4.12E-09	4.85E-10	1.53E-09	3.69E-13	0.00E+00	2.02E-09
1580	420548.04	3733711.92	5.62E-09	2.37E-08	1.04E-11	0.00E+00	2.93E-08	7.70E-10	3.24E-09	1.55E-12	0.00E+00	4.01E-09	4.73E-10	1.49E-09	3.60E-13	0.00E+00	1.96E-09
1581	420564	3733705.4	5.60E-09	2.37E-08	1.04E-11	0.00E+00	2.93E-08	7.68E-10	3.24E-09	1.55E-12	0.00E+00	4.00E-09	4.71E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
1582	420579.95	3733698.88	5.59E-09	2.36E-08	1.04E-11	0.00E+00	2.92E-08	7.67E-10	3.23E-09	1.54E-12	0.00E+00	4.00E-09	4.71E-10	1.48E-09	3.58E-13	0.00E+00	1.96E-09
1583	420595.91	3733692.35	5.58E-09	2.36E-08	1.03E-11	0.00E+00	2.92E-08	7.65E-10	3.22E-09	1.54E-12	0.00E+00	3.99E-09	4.70E-10	1.48E-09	3.58E-13	0.00E+00	1.95E-09
1584	420611.87	3733685.83	5.57E-09	2.35E-08	1.03E-11	0.00E+00	2.91E-08	7.64E-10	3.22E-09	1.54E-12	0.00E+00	3.98E-09	4.69E-10	1.48E-09	3.57E-13	0.00E+00	1.95E-09
1585	419944.8	3734386.76	5.47E-09	2.31E-08	1.01E-11	0.00E+00	2.86E-08	7.50E-10	3.16E-09	1.51E-12	0.00E+00	3.91E-09	4.60E-10	1.45E-09	3.50E-13	0.00E+00	1.91E-09
1586	419945.01	3734404.12	5.43E-09	2.29E-08	1.01E-11	0.00E+00	2.84E-08	7.44E-10	3.13E-09	1.50E-12	0.00E+00	3.88E-09	4.57E-10	1.44E-09	3.48E-13	0.00E+00	1.90E-09
1587	420639.94	3734404.17	7.28E-07	3.07E-06	1.35E-09	0.00E+00	3.80E-06	9.97E-08	4.20E-07	2.01E-10	0.00E+00	5.20E-07	6.12E-08	1.93E-07	4.66E-11	0.00E+00	2.54E-07
1588	420648.28	3734409.01	9.29E-07	3.92E-06	1.72E-09	0.00E+00	4.86E-06	1.27E-07	5.37E-07	2.56E-10	0.00E+00	6.64E-07	7.82E-08	2.47E-07	5.95E-11	0.00E+00	3.25E-07
1589	420656.63	3734413.85	1.23E-06	5.21E-06	2.29E-09	0.00E+00	6.44E-06	1.69E-07	7.12E-07	3.40E-10	0.00E+00	8.82E-07	1.04E-07	3.27E-07	7.90E-11	0.00E+00	4.31E-07
1590	420664.97	3734418.69	1.72E-06	7.26E-06	3.19E-09	0.00E+00	8.99E-06	2.36E-07	9.93E-07	4.75E-10	0.00E+00	1.23E-06	1.45E-07	4.57E-07	1.10E-10	0.00E+00	6.01E-07
1591	420673.31	3734423.53	2.54E-06	1.07E-05	4.71E-09	0.00E+00	1.33E-05	3.48E-07	1.47E-06	7.01E-10	0.00E+00	1.81E-06	2.14E-07	6.74E-07	1.63E-10	0.00E+00	8.88E-07
1592	420643.27	3734417.66	9.52E-07	4.02E-06	1.76E-09	0.00E+00	4.98E-06	1.31E-07	5.50E-07	2.63E-10	0.00E+00	6.81E-07	8.01E-08	2.53E-07	6.10E-11	0.00E+00	3.33E-07
1593	420651.61	3734422.5	1.26E-06	5.33E-06	2.34E-09	0.00E+00	6.59E-06	1.73E-07	7.29E-07	3.48E-10	0.00E+00	9.02E-07	1.06E-07	3.35E-07	8.09E-11	0.00E+00	4.41E-07
1594	420659.95	3734427.34	1.75E-06	7.40E-06	3.25E-09	0.00E+00	9.15E-06	2.40E-07	1.01E-06	4.83E-10	0.00E+00	1.25E-06	1.47E-07	4.65E-07	1.12E-10	0.00E+00	6.12E-07
1595	420668.29	3734432.18	2.56E-06	1.08E-05	4.75E-09	0.00E+00	1.34E-05	3.51E-07	1.48E-06	7.07E-10	0.00E+00	1.83E-06	2.16E-07	6.80E-07	1.64E-10	0.00E+00	8.96E-07
1596	420638.25	3734426.31	9.38E-07	3.96E-06	1.74E-09	0.00E+00	4.90E-06	1.29E-07	5.42E-07	2.59E-10	0.00E+00	6.70E-07	7.89E-08	2.49E-07	6.01E-11	0.00E+00	3.28E-07
1597	420646.59	3734431.15	1.23E-06	5.20E-06	2.28E-09	0.00E+00	6.43E-06	1.69E-07	7.11E-07	3.40E-10	0.00E+00	8.80E-07	1.04E-07	3.27E-07	7.89E-11	0.00E+00	4.30E-07
1598	420654.93	3734435.99	1.68E-06	7.10E-06	3.12E-09	0.00E+00	8.78E-06	2.30E-07	9.71E-07	4.64E-10	0.00E+00	1.20E-06	1.41E-07	4.46E-07	1.08E-10	0.00E+00	5.88E-07
1599	420663.28	3734440.83	2.41E-06	1.02E-05	4.46E-09	0.00E+00	1.26E-05	3.30E-07	1.39E-06	6.65E-10	0.00E+00	1.72E-06	2.03E-07	6.39E-07	1.54E-10	0.00E+00	8.42E-07
1600	420608.6	3734409.13	4.48E-07	1.89E-06	8.30E-10	0.00E+00	2.34E-06	6.14E-08	2.59E-07	1.24E-10	0.00E+00	3.20E-07	3.77E-08	1.19E-07	2.87E-11	0.00E+00	1.57E-07
1601	420641.57	3734439.8	1.16E-06	4.91E-06	2.15E-09	0.00E+00	6.07E-06	1.59E-07	6.71E-07	3.21E-10	0.00E+00	8.31E-07	9.78E-08	3.09E-07	7.45E-11	0.00E+00	4.06E-07
1602	420649.91	3734444.64	1.56E-06	6.59E-06	2.89E-09	0.00E+00	8.15E-06	2.14E-07	9.00E-07	4.30E-10	0.00E+00	1.11E-06	1.31E-07	4.14E-07	9.99E-11	0.00E+00	5.45E-07
1603	420658.26	3734449.48	2.18E-06	9.20E-06	4.04E-09	0.00E+00	1.14E-05	2.99E-07	1.26E-06	6.01E-10	0.00E+00	1.56E-06	1.83E-07	5.78E-07	1.40E-10	0.00E+00	7.62E-07
1604	420613.84	3734432.76	5.75E-07	2.43E-06	1.07E-09	0.00E+00	3.01E-06	7.89E-08	3.32E-07	1.59E-10	0.00E+00	4.11E-07	4.84E-08	1.53E-07	3.69E-11	0.00E+00	2.01E-07
1605	420599.51	3734412.54	3.96E-07	1.67E-06	7.34E-10	0.00E+00	2.07E-06	5.43E-08	2.29E-07	1.09E-10	0.00E+00	2.83E-07	3.33E-08	1.05E-07	2.54E-11	0.00E+00	1.38E-07
1606	420644.9	3734453.29	1.41E-06	5.97E-06	2.62E-09	0.00E+00	7.39E-06	1.94E-07	8.17E-07	3.90E-10	0.00E+00	1.01E-06	1.19E-07	3.75E-07	9.06E-11	0.00E+00	4.94E-07
1607	420653.24	3734458.13	1.93E-06	8.13E-06	3.57E-09	0.00E+00	1.01E-05	2.64E-07	1.11E-06	5.31E-10	0.00E+00	1.38E-06	1.62E-07	5.11E-07	1.23E-10	0.00E+00	6.73E-07
1608	420609.43	3734442.01	5.48E-07	2.31E-06	1.02E-09	0.00E+00	2.86E-06	7.52E-08	3.17E-07	1.51E-10	0.00E+00	3.92E-07	4.61E-08	1.45E-07	3.51E-11	0.00E+00	1.92E-07
1609	420598.58	3734431.19	4.27E-07	1.80E-06	7.91E-10	0.00E+00	2.23E-06	5.85E-08	2.46E-07	1.18E-10	0.00E+00	3.05E-07	3.59E-08	1.13E-07	2.73E-11	0.00E+00	1.49E-07
1610	420591.11	3734418.4	3.56E-07	1.50E-06	6.60E-10	0.00E+00	1.86E-06	4.88E-08	2.06E-07	9.83E-11	0.00E+00	2.55E-07	3.00E-08	9.45E-08	2.28E-11	0.00E+00	1.25E-07
1611	420639.88	3734461.94	1.26E-06	5.32E-06	2.34E-09	0.00E+00	6.59E-06	1.73E-07	7.28E-07	3.48E-10	0.00E+00	9.01E-07	1.06E-07	3.35E-07	8.08E-11	0.00E+00	4.41E-07
1612	420648.22	3734466.78	1.69E-06	7.12E-06	3.13E-09	0.00E+00	8.81E-06	2.31E-07	9.74E-07	4.66E-10	0.00E+00	1.21E-06	1.42E-07	4.48E-07	1.08E-10	0.00E+00	5.90E-07
1613	420590.85	3734437.14	3.79E-07	1.60E-06	7.02E-10	0.00E+00	1.98E-06	5.19E-08	2.19E-07	1.05E-10	0.00E+00	2.71E-07	3.19E-08	1.01E-07	2.43E-11	0.00E+00	1.32E-07
1614	420582.13	3734422.22	3.13E-07	1.32E-06	5.81E-10	0.00E+00	1.64E-06	4.30E-08	1.81E-07	8.65E-11	0.00E+00	2.24E-07	2.64E-08	8.31E-08	2.01E-11	0.00E+00	1.10E-07
1615	420579.74	3734413.6	2.93E-07	1.24E-06	5.43E-10	0.00E+00	1.53E-06	4.01E-08	1.69E-07	8.08E-11	0.00E+00	2.09E-07	2.46E-08	7.77E-08	1.88E-11	0.00E+00	1.02E-07
1616	420643.2	3734475.43	1.46E-06	6.16E-06	2.70E-09	0.00E+00	7.62E-06	2.00E-07	8.42E-07	4.02E-10	0.00E+00	1.04E-06	1.23E-07	3.87E-07	9.34E-11	0.00E+00	5.10E-07
1617	420573.7	3734428	2.79E-07	1.18E-06	5.17E-10	0.00E+00	1.46E-06	3.82E-08	1.61E-07	7.70E-11	0.00E+00	1.99E-07	2.35E-08	7.40E-08	1.79E-11	0.00E+00	9.75E-08
1618	420569.33	3734412.25	2.51E-07	1.06E-06	4.64E-10	0.00E+00	1.31E-06	3.44E-08	1.45E-07	6.92E-11	0.00E+00	1.79E-07	2.11E-08	6.65E-08	1.61E-11	0.00E+00	8.76E-08
1619	420613.16	3734469.56	6.31E-07	2.67E-06	1.17E-09	0.00E+00	3.30E-06	8.66E-08	3.65E-07	1.74E-10	0.00E+00	4.51E-07	5.31E-08	1.68E-07	4.04E-11	0.00E+00	2.21E-07
1620	420638.18	3734484.08	1.24E-06	5.25E-06	2.30E-09	0.00E+00	6.49E-06	1.70E-07	7.18E-07	3.43E-10	0.00E+00	8.88E-07	1.05E-07	3.30E-07	7.96E-11	0.00E+00	4.34E-07
1621	420593.29	3734466.88	4.12E-07	1.74E-06	7.63E-10	0.00E+00	2.15E-06	5.65E-08	2.38E-07	1.14E-10	0.00E+00	2.95E-07	3.47E-08	1.09E-07	2.64E-11	0.00E+00	1.44E-07
1622	420564.79	3734432.06	2.46E-07	1.04E-06	4.55E-10	0.00E+00	1.28E-06	3.37E-08	1.42E-07	6.78E-11	0.00E+00	1.76E-07	2.07E-08	6.52E-08	1.57E-11	0.00E+00	8.58E-08
1623	420562.34	3734423.2	2.33E-07	9.86E-07	4.33E-10	0.00E+00	1.22E-06	3.20E-08	1.35E-07	6.44E-11	0.00E+00	1.67E-07	1.96E-08	6.19E-08	1.50E-11	0.00E+00	8.16E-08
1624	420559.88	3734414.34	2.21E-07	9.34E-07	4.10E-10	0.00E+00	1.16E-06	3.03E-08	1.28E-07	6.10E-11	0.00E+00	1.58E-07	1.86E-08	5.87E-08	1.42E-11	0.00E+00	7.73E-08
1625	420557.42	3734405.48	2.09E-07	8.82E-07	3.87E-10	0.00E+00	1.09E-06	2.86E-08	1.21E-07	5.76E-11	0.00E+00	1.49E-07	1.76E-08	5.54E-08	1.34E-11	0.00E+00	7.30E-08
1626	420599.8	3734473.37	4.70E-07	1.98E-06	8.70E-10	0.00E+00	2.45E-06	6.44E-08	2.71E-07	1.30E-10	0.00E+00	3.36E-07	3.95E-08	1.25E-07	3.01E-11	0.00E+00	1.64E-07
1627	420608.14	3734478.21	5.62E-07	2.37E-06	1.04E-09	0.00E+00	2.93E-06	7.70E-08	3.24E-07	1.55E-10	0.00E+00	4.01E-07	4.73E-08	1.49E-07	3.60E-11	0.00E+00	1.96E-07
1628	420616.48	3734483.05	6.80E-07	2.87E-06	1.26E-09	0.00E+00	3.56E-06	9.33E-08	3.93E-07	1.88E-10	0.00E+00	4.86E-07	5.73E-08	1.81E-07	4.36E-11	0.00E+00	2.38E-07
1629	420588.75	3734476.01	3.75E-07	1.58E-06	6.95E-10	0.00E+00	1.96E-06	5.14E-08	2.17E-07	1.04E-10	0.00E+00	2.68E-07	3.16E-08	9.96E-08	2.40E-11	0.00E+00	1.31E-07
1630	420576.7	3734463.99	3.03E-07	1.28E-06	5.62E-10	0.00E+00	1.58E-06	4.16E-08	1.75E-07	8.37E-11	0.00E+00	2.17E-07	2.55E-08	8.05E-08	1.94E-11	0.00E+00	1.06E-07
1631	420556.34	3734437.76	2.18E-07	9.21E-07	4.04E-10	0.00E+00	1.14E-06	2.99E-08	1.26E-07	6.02E-11	0.00E+00	1.56E-07	1.84E-08	5.79E-08	1.40E-11	0.00E+00	7.63E-08
1632	420551.79	3734421.35	2.01E-07	8.48E-07	3.72E-10	0.00E+00	1.05E-06	2.75E-08	1.16E-07	5.54E-11	0.00E+00	1.44E-07	1.69E-08	5.33E-08	1.29E-11	0.00E+00	7.02E-08
1633	420603.12	3734486.86	4.96E-07	2.09E-06	9.19E-10	0.00E+00	2.59E-06	6.80E-08	2.86E-07	1.37E-10	0.00E+00	3.54E-07	4.17E-08	1.32E-07	3.18E-11	0.00E+00	1.73E-07
1634	420611.46	3734491.7	5.92E-07	2.50E-06	1.10E-09	0.00E+00	3.10E-06	8.12E-08	3.42E-07	1.63E-10	0.00E+00	4.23E-07	4.98E-08	1.57E-07	3.80E-11	0.00E+00	2.07E-07
1635	420578.54	3734493.14	3.01E-07	1.27E-06	5.58E-10	0.00E+00	1.57E-06	4.13E-08	1.74E-07	8.31E-11	0.00E+00	2.15E-07	2.53E-08	8.00E-08	1.93E-11	0.00E+00	1.05E-07
1636	420566.14	3734480.77	2.50E-07	1.05E-06	4.63E-10	0.00E+00	1.30E-06	3.42E-08	1.44E-07	6.89E-11	0.00E+00	1.79E-07	2.10E-08	6.63E-08	1.60E-11	0.00E+00	8.73E-08
1637	420553.74	3734468.41	2.09E-07	8.82E-07	3.87E-10	0.00E+00	1.09E-06	2.86E-08	1.21E-07	5.76E-11	0.00E+00	1.49E-07	1.76E-08	5.54E-08	1.34E-11	0.00E+00	7.30E-08
1638	420534.33	3734430.74	1.61E-07	6.79E-07	2.98E-10	0.00E+00	8.40E-07	2.20E-08	9.29E-08	4.44E-11	0.00E+00	1.15E-07	1.35E-08	4.27E-08	1.03E-11	0.00E+00	5.62E-08
1639	420529.65	3734413.87	1.50E-07	6.33E-07	2.78E-10	0.00E+00	7.83E-07	2.05E-08	8.65E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.60E-12	0.00E+00	5.24E-08
1640	420593.08	3734504.16	3.83E-07	1.62E-06	7.10E-10	0.00E+00	2.00E-06	5.25E-08	2.21E-07	1.06E-10	0.00E+00	2.74E-07	3.22E-08	1.02E-07	2.45E-11	0.00E+00	1.34E-07
1641	420601.43	3734509	4.46E-07	1.88E-06	8.26E-10	0.00E+00	2.33E-06	6.11E-08	2.57E-07	1.23E-10	0.00E+00	3.19E-07	3.75E-08	1.18E-07	2.86E-11	0.00E+00	1.56E-07
1642	420609.77	3734513.84	5.22E-07	2.21E-06	9.68E-10	0.00E+00	2.73E-06	7.16E-08	3.02E-07	1.44E-10	0.00E+00	3.73E-07	4.39E-08	1.39E-07	3.35E-11	0.00E+00	1.83E-07
1643	420568.38	3734510.31	2.42E-07	1.02E-06	4.48E-10	0.00E+00	1.26E-06	3.32E-08	1.40E-07	6.68E-11	0.00E+00	1.73E-07	2.04E-08	6.42E-08	1.55E-11	0.00E+00	8.46E-08
1644	420555.72	3734497.69	2.05E-07	8.67E-07	3.80E-10	0.00E+00	1.07E-06	2.81E-08	1.19E-07	5.66E-11	0.00E+00	1.47E-07	1.73E-08	5.45E-08	1.31E-11	0.00E+00	7.18E-08
1645	420543.06	3734485.07	1.75E-07	7.38E-07	3.24E-10	0.00E+00	9.13E-07	2.40E-08	1.01E-07	4.82E-11	0.00E+00	1.25E-07	1.47E-08	4.64E-08	1.12E-11	0.00E+00	6.11E-08
1646	420530.4	3734472.45	1.50E-07	6.32E-07	2.77E-10	0.00E+00	7.82E-07	2.05E-08	8.64E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.97E-08	9.59E-12	0.00E+00	5.23E-08
1647	420516.91	3734440.3	1.29E-07	5.46E-07	2.40E-10	0.00E+00	6.76E-07	1.77E-08	7.47E-08	3.57E-11	0.00E+00	9.25E-08	1.09E-08	3.43E-08	8.29E-12	0.00E+00	4.52E-08
1648	420512.13	3734423.08	1.23E-07	5.17E-07	2.27E-10	0.00E+00	6.40E-07	1.68E-08	7.07E-08	3.38E-11	0.00E+00	8.76E-08	1.03E-08	3.25E-08	7.85E-12	0.00E+00	4.28E-08
1649	420583.05	3734521.46	2.98E-07	1.26E-06	5.51E-10	0.00E+00	1.55E-06	4.08E-08	1.72E-07	8.21E-11	0.00E+00	2.13E-07	2.50E-08	7.90E-08	1.91E-11	0.00E+00	1.04E-07
1650	420591.39	3734526.3	3.38E-07	1.43E-06	6.27E-10	0.00E+00	1.77E-06	4.64E-08	1.95E-07	9.33E-11	0.00E+00	2.42E-07	2.84E-08	8.97E-08	2.17E-11	0.00E+00	1.18E-07
1651	420599.73	3734531.14	3.86E-07	1.63E-06	7.14E-10	0.00E+00	2.01E-06	5.29E-08	2.23E-07	1.06E-10	0.00E+00	2.76E-07	3.24E-08	1.02E-07	2.47E-11	0.00E+00	1.35E-07
1652	420608.07	3734535.98	4.41E-07	1.86E-06	8.17E-10	0.00E+00	2.30E-06	6.05E-08	2.55E-07	1.22E-10	0.00E+00	3.15E-07	3.71E-08	1.17E-07	2.83E-11	0.00E+00	1.54E-07

1653	420558.24	3734527.51	1.96E-07	8.29E-07	3.64E-10	0.00E+00	1.03E-06	2.69E-08	1.13E-07	5.42E-11	0.00E+00	1.40E-07	1.65E-08	5.21E-08	1.26E-11	0.00E+00	6.86E-08
1654	420551.81	3734521.1	1.83E-07	7.71E-07	3.38E-10	0.00E+00	9.54E-07	2.50E-08	1.05E-07	5.04E-11	0.00E+00	1.30E-07	1.54E-08	4.84E-08	1.17E-11	0.00E+00	6.38E-08
1655	420538.95	3734508.27	1.58E-07	6.67E-07	2.93E-10	0.00E+00	8.25E-07	2.16E-08	9.12E-08	4.36E-11	0.00E+00	1.13E-07	1.33E-08	4.19E-08	1.01E-11	0.00E+00	5.52E-08
1656	420532.52	3734501.86	1.47E-07	6.21E-07	2.72E-10	0.00E+00	7.68E-07	2.01E-08	8.49E-08	4.06E-11	0.00E+00	1.05E-07	1.24E-08	3.90E-08	9.41E-12	0.00E+00	5.14E-08
1657	420519.66	3734489.04	1.28E-07	5.39E-07	2.36E-10	0.00E+00	6.67E-07	1.75E-08	7.37E-08	3.52E-11	0.00E+00	9.12E-08	1.07E-08	3.39E-08	8.17E-12	0.00E+00	4.46E-08
1658	420504.38	3734467.48	1.09E-07	4.62E-07	2.03E-10	0.00E+00	5.71E-07	1.50E-08	6.31E-08	3.02E-11	0.00E+00	7.81E-08	9.20E-09	2.90E-08	7.00E-12	0.00E+00	3.82E-08
1659	420497.1	3734441.23	1.03E-07	4.35E-07	1.91E-10	0.00E+00	5.38E-07	1.41E-08	5.94E-08	2.84E-11	0.00E+00	7.36E-08	8.66E-09	2.73E-08	6.59E-12	0.00E+00	3.60E-08
1660	420494.68	3734432.48	1.01E-07	4.25E-07	1.87E-10	0.00E+00	5.26E-07	1.38E-08	5.81E-08	2.78E-11	0.00E+00	7.20E-08	8.47E-09	2.67E-08	6.45E-12	0.00E+00	3.52E-08
1661	420492.25	3734423.73	9.84E-08	4.15E-07	1.82E-10	0.00E+00	5.14E-07	1.35E-08	5.68E-08	2.71E-11	0.00E+00	7.03E-08	8.28E-09	2.61E-08	6.30E-12	0.00E+00	3.44E-08
1662	420489.82	3734414.98	9.60E-08	4.05E-07	1.78E-10	0.00E+00	5.01E-07	1.32E-08	5.54E-08	2.65E-11	0.00E+00	6.86E-08	8.07E-09	2.55E-08	6.15E-12	0.00E+00	3.36E-08
1663	420487.4	3734406.23	9.35E-08	3.95E-07	1.73E-10	0.00E+00	4.89E-07	1.28E-08	5.40E-08	2.58E-11	0.00E+00	6.69E-08	7.87E-09	2.48E-08	5.99E-12	0.00E+00	3.27E-08
1664	420564.67	3734533.92	2.11E-07	8.90E-07	3.91E-10	0.00E+00	1.10E-06	2.89E-08	1.22E-07	5.82E-11	0.00E+00	1.51E-07	1.77E-08	5.59E-08	1.35E-11	0.00E+00	7.37E-08
1665	420535.1	3734531.74	1.42E-07	5.98E-07	2.62E-10	0.00E+00	7.40E-07	1.94E-08	8.18E-08	3.91E-11	0.00E+00	1.01E-07	1.19E-08	3.76E-08	9.07E-12	0.00E+00	4.95E-08
1666	420528.59	3734525.25	1.33E-07	5.61E-07	2.46E-10	0.00E+00	6.94E-07	1.82E-08	7.67E-08	3.66E-11	0.00E+00	9.49E-08	1.12E-08	3.52E-08	8.51E-12	0.00E+00	4.64E-08
1667	420522.08	3734518.76	1.24E-07	5.26E-07	2.31E-10	0.00E+00	6.50E-07	1.71E-08	7.19E-08	3.44E-11	0.00E+00	8.90E-08	1.05E-08	3.30E-08	7.98E-12	0.00E+00	4.35E-08
1668	420515.57	3734512.27	1.17E-07	4.93E-07	2.16E-10	0.00E+00	6.10E-07	1.60E-08	6.74E-08	3.22E-11	0.00E+00	8.34E-08	9.82E-09	3.10E-08	7.48E-12	0.00E+00	4.08E-08
1669	420509.06	3734505.78	1.09E-07	4.62E-07	2.03E-10	0.00E+00	5.72E-07	1.50E-08	6.32E-08	3.02E-11	0.00E+00	7.82E-08	9.21E-09	2.91E-08	7.01E-12	0.00E+00	3.83E-08
1670	420502.55	3734499.29	1.03E-07	4.34E-07	1.90E-10	0.00E+00	5.37E-07	1.41E-08	5.93E-08	2.83E-11	0.00E+00	7.34E-08	8.64E-09	2.73E-08	6.58E-12	0.00E+00	3.59E-08
1671	420496.05	3734492.8	9.65E-08	4.07E-07	1.79E-10	0.00E+00	5.04E-07	1.32E-08	5.57E-08	2.66E-11	0.00E+00	6.90E-08	8.12E-09	2.56E-08	6.18E-12	0.00E+00	3.37E-08
1672	420487.08	3734477.45	8.93E-08	3.77E-07	1.66E-10	0.00E+00	4.67E-07	1.22E-08	5.16E-08	2.47E-11	0.00E+00	6.39E-08	7.52E-09	2.37E-08	5.72E-12	0.00E+00	3.12E-08
1673	420484.62	3734468.6	8.79E-08	3.71E-07	1.63E-10	0.00E+00	4.59E-07	1.21E-08	5.08E-08	2.43E-11	0.00E+00	6.28E-08	7.40E-09	2.33E-08	5.63E-12	0.00E+00	3.07E-08
1674	420482.17	3734459.74	8.65E-08	3.65E-07	1.60E-10	0.00E+00	4.52E-07	1.19E-08	4.99E-08	2.39E-11	0.00E+00	6.18E-08	7.27E-09	2.29E-08	5.54E-12	0.00E+00	3.02E-08
1675	420477.25	3734442.02	8.35E-08	3.52E-07	1.55E-10	0.00E+00	4.36E-07	1.14E-08	4.82E-08	2.30E-11	0.00E+00	5.96E-08	7.02E-09	2.21E-08	5.35E-12	0.00E+00	2.92E-08
1676	420474.8	3734433.16	8.19E-08	3.46E-07	1.52E-10	0.00E+00	4.28E-07	1.12E-08	4.73E-08	2.26E-11	0.00E+00	5.85E-08	6.89E-09	2.17E-08	5.24E-12	0.00E+00	2.86E-08
1677	420472.34	3734424.31	8.03E-08	3.39E-07	1.49E-10	0.00E+00	4.19E-07	1.10E-08	4.63E-08	2.21E-11	0.00E+00	5.74E-08	6.75E-09	2.13E-08	5.14E-12	0.00E+00	2.81E-08
1678	420469.89	3734415.45	7.86E-08	3.32E-07	1.46E-10	0.00E+00	4.11E-07	1.08E-08	4.54E-08	2.17E-11	0.00E+00	5.62E-08	6.62E-09	2.09E-08	5.04E-12	0.00E+00	2.75E-08
1679	420467.43	3734406.59	7.70E-08	3.25E-07	1.43E-10	0.00E+00	4.02E-07	1.05E-08	4.44E-08	2.12E-11	0.00E+00	5.50E-08	6.47E-09	2.04E-08	4.93E-12	0.00E+00	2.69E-08
1680	420579.66	3734565.73	2.25E-07	9.51E-07	4.17E-10	0.00E+00	1.18E-06	3.09E-08	1.30E-07	6.22E-11	0.00E+00	1.61E-07	1.89E-08	5.98E-08	1.44E-11	0.00E+00	7.87E-08
1681	420588	3734570.57	2.47E-07	1.04E-06	4.57E-10	0.00E+00	1.29E-06	3.38E-08	1.42E-07	6.81E-11	0.00E+00	1.76E-07	2.08E-08	6.55E-08	1.58E-11	0.00E+00	8.63E-08
1682	420538.02	3734561.96	1.33E-07	5.61E-07	2.46E-10	0.00E+00	6.94E-07	1.82E-08	7.68E-08	3.67E-11	0.00E+00	9.50E-08	1.12E-08	3.53E-08	8.52E-12	0.00E+00	4.65E-08
1683	420511.72	3734535.74	1.06E-07	4.48E-07	1.97E-10	0.00E+00	5.55E-07	1.46E-08	6.13E-08	2.93E-11	0.00E+00	7.59E-08	8.93E-09	2.82E-08	6.80E-12	0.00E+00	3.71E-08
1684	420505.14	3734529.18	1.00E-07	4.23E-07	1.86E-10	0.00E+00	5.23E-07	1.37E-08	5.79E-08	2.76E-11	0.00E+00	7.16E-08	8.43E-09	2.66E-08	6.42E-12	0.00E+00	3.50E-08
1685	420498.57	3734522.62	9.45E-08	3.99E-07	1.75E-10	0.00E+00	4.94E-07	1.30E-08	5.46E-08	2.61E-11	0.00E+00	6.76E-08	7.95E-09	2.51E-08	6.06E-12	0.00E+00	3.30E-08
1686	420491.99	3734516.07	8.92E-08	3.76E-07	1.65E-10	0.00E+00	4.66E-07	1.22E-08	5.15E-08	2.46E-11	0.00E+00	6.37E-08	7.50E-09	2.37E-08	5.71E-12	0.00E+00	3.12E-08
1687	420485.42	3734509.51	8.41E-08	3.55E-07	1.56E-10	0.00E+00	4.40E-07	1.15E-08	4.86E-08	2.32E-11	0.00E+00	6.01E-08	7.08E-09	2.23E-08	5.39E-12	0.00E+00	2.94E-08
1688	420478.84	3734502.96	7.94E-08	3.35E-07	1.47E-10	0.00E+00	4.15E-07	1.09E-08	4.59E-08	2.19E-11	0.00E+00	5.68E-08	6.68E-09	2.11E-08	5.09E-12	0.00E+00	2.78E-08
1689	420469.79	3734487.45	7.41E-08	3.13E-07	1.37E-10	0.00E+00	3.87E-07	1.02E-08	4.28E-08	2.04E-11	0.00E+00	5.29E-08	6.23E-09	1.97E-08	4.75E-12	0.00E+00	2.59E-08
1690	420467.3	3734478.51	7.31E-08	3.08E-07	1.35E-10	0.00E+00	3.82E-07	1.00E-08	4.22E-08	2.02E-11	0.00E+00	5.22E-08	6.15E-09	1.94E-08	4.68E-12	0.00E+00	2.55E-08
1691	420464.82	3734469.56	7.20E-08	3.04E-07	1.33E-10	0.00E+00	3.76E-07	9.87E-09	4.16E-08	1.99E-11	0.00E+00	5.15E-08	6.06E-09	1.91E-08	4.61E-12	0.00E+00	2.52E-08
1692	420462.34	3734460.61	7.09E-08	3.00E-07	1.31E-10	0.00E+00	3.71E-07	9.73E-09	4.10E-08	1.96E-11	0.00E+00	5.07E-08	5.97E-09	1.88E-08	4.55E-12	0.00E+00	2.48E-08
1693	420457.38	3734442.72	6.87E-08	2.90E-07	1.27E-10	0.00E+00	3.59E-07	9.42E-09	3.97E-08	1.90E-11	0.00E+00	4.91E-08	5.78E-09	1.82E-08	4.40E-12	0.00E+00	2.40E-08
1694	420454.9	3734433.77	6.76E-08	2.85E-07	1.25E-10	0.00E+00	3.53E-07	9.27E-09	3.90E-08	1.87E-11	0.00E+00	4.83E-08	5.69E-09	1.79E-08	4.33E-12	0.00E+00	2.36E-08
1695	420452.42	3734424.82	6.65E-08	2.81E-07	1.23E-10	0.00E+00	3.47E-07	9.11E-09	3.84E-08	1.83E-11	0.00E+00	4.75E-08	5.59E-09	1.76E-08	4.26E-12	0.00E+00	2.32E-08
1696	420449.94	3734415.87	6.53E-08	2.76E-07	1.21E-10	0.00E+00	3.41E-07	8.95E-09	3.77E-08	1.80E-11	0.00E+00	4.67E-08	5.49E-09	1.73E-08	4.18E-12	0.00E+00	2.28E-08
1697	420447.46	3734406.93	6.41E-08	2.71E-07	1.19E-10	0.00E+00	3.35E-07	8.79E-09	3.70E-08	1.77E-11	0.00E+00	4.58E-08	5.39E-09	1.70E-08	4.11E-12	0.00E+00	2.24E-08
1698	420544.6	3734568.51	1.40E-07	5.92E-07	2.60E-10	0.00E+00	7.32E-07	1.92E-08	8.09E-08	3.87E-11	0.00E+00	1.00E-07	1.18E-08	3.72E-08	8.97E-12	0.00E+00	4.90E-08
1699	420569.62	3734583.03	1.78E-07	7.50E-07	3.29E-10	0.00E+00	9.27E-07	2.43E-08	1.02E-07	4.90E-11	0.00E+00	1.27E-07	1.49E-08	4.71E-08	1.14E-11	0.00E+00	6.21E-08
1700	420577.97	3734587.87	1.92E-07	8.10E-07	3.55E-10	0.00E+00	1.00E-06	2.63E-08	1.11E-07	5.29E-11	0.00E+00	1.37E-07	1.61E-08	5.09E-08	1.23E-11	0.00E+00	6.70E-08
1701	420527.93	3734579.2	1.11E-07	4.68E-07	2.05E-10	0.00E+00	5.79E-07	1.52E-08	6.40E-08	3.06E-11	0.00E+00	7.93E-08	9.33E-09	2.94E-08	7.10E-12	0.00E+00	3.88E-08
1702	420521.3	3734572.59	1.06E-07	4.47E-07	1.96E-10	0.00E+00	5.53E-07	1.45E-08	6.11E-08	2.92E-11	0.00E+00	7.56E-08	8.90E-09	2.81E-08	6.78E-12	0.00E+00	3.70E-08
1703	420514.67	3734565.98	1.01E-07	4.25E-07	1.87E-10	0.00E+00	5.26E-07	1.38E-08	5.82E-08	2.78E-11	0.00E+00	7.20E-08	8.48E-09	2.67E-08	6.45E-12	0.00E+00	3.52E-08
1704	420481.52	3734532.93	7.78E-08	3.29E-07	1.44E-10	0.00E+00	4.06E-07	1.07E-08	4.49E-08	2.15E-11	0.00E+00	5.56E-08	6.55E-09	2.06E-08	4.98E-12	0.00E+00	2.72E-08
1705	420474.89	3734526.32	7.38E-08	3.12E-07	1.37E-10	0.00E+00	3.85E-07	1.01E-08	4.26E-08	2.04E-11	0.00E+00	5.27E-08	6.21E-09	1.96E-08	4.73E-12	0.00E+00	2.58E-08
1706	420468.26	3734519.71	7.00E-08	2.95E-07	1.30E-10	0.00E+00	3.66E-07	9.59E-09	4.04E-08	1.93E-11	0.00E+00	5.00E-08	5.89E-09	1.86E-08	4.48E-12	0.00E+00	2.45E-08
1707	420461.63	3734513.1	6.64E-08	2.80E-07	1.23E-10	0.00E+00	3.47E-07	9.10E-09	3.83E-08	1.83E-11	0.00E+00	4.74E-08	5.58E-09	1.76E-08	4.25E-12	0.00E+00	2.32E-08
1708	420452.5	3734497.47	6.22E-08	2.63E-07	1.15E-10	0.00E+00	3.25E-07	8.53E-09	3.59E-08	1.72E-11	0.00E+00	4.45E-08	5.24E-09	1.65E-08	3.99E-12	0.00E+00	2.18E-08
1709	420449.99	3734488.44	6.15E-08	2.60E-07	1.14E-10	0.00E+00	3.21E-07	8.43E-09	3.55E-08	1.70E-11	0.00E+00	4.39E-08	5.17E-09	1.63E-08	3.94E-12	0.00E+00	2.15E-08
1710	420447.49	3734479.42	6.07E-08	2.56E-07	1.12E-10	0.00E+00	3.17E-07	8.32E-09	3.50E-08	1.68E-11	0.00E+00	4.34E-08	5.11E-09	1.61E-08	3.89E-12	0.00E+00	2.12E-08
1711	420444.99	3734470.4	5.99E-08	2.53E-07	1.11E-10	0.00E+00	3.13E-07	8.21E-09	3.46E-08	1.65E-11	0.00E+00	4.28E-08	5.04E-09	1.59E-08	3.84E-12	0.00E+00	2.09E-08
1712	420534.56	3734585.81	1.16E-07	4.90E-07	2.15E-10	0.00E+00	6.06E-07	1.59E-08	6.70E-08	3.20E-11	0.00E+00	8.29E-08	9.76E-09	3.08E-08	7.43E-12	0.00E+00	4.05E-08
1713	420542.9	3734590.65	1.24E-07	5.25E-07	2.30E-10	0.00E+00	6.50E-07	1.70E-08	7.18E-08	3.43E-11	0.00E+00	8.89E-08	1.05E-08	3.30E-08	7.97E-12	0.00E+00	4.35E-08
1714	420551.24	3734595.49	1.33E-07	5.62E-07	2.47E-10	0.00E+00	6.96E-07	1.83E-08	7.69E-08	3.67E-11	0.00E+00	9.52E-08	1.12E-08	3.53E-08	8.53E-12	0.00E+00	4.65E-08
1715	420517.85	3734596.46	9.32E-08	3.94E-07	1.73E-10	0.00E+00	4.87E-07	1.28E-08	5.38E-08	2.57E-11	0.00E+00	6.66E-08	7.84E-09	2.47E-08	5.97E-12	0.00E+00	3.26E-08
1716	420511.17	3734589.8	8.95E-08	3.78E-07	1.66E-10	0.00E+00	4.68E-07	1.23E-08	5.17E-08	2.47E-11	0.00E+00	6.40E-08	7.53E-09	2.38E-08	5.73E-12	0.00E+00	3.13E-08
1717	420504.49	3734583.14	8.58E-08	3.62E-07	1.59E-10	0.00E+00	4.48E-07	1.18E-08	4.96E-08	2.37E-11	0.00E+00	6.13E-08	7.22E-09	2.28E-08	5.50E-12	0.00E+00	3.00E-08
1718	420497.82	3734576.49	8.22E-08	3.47E-07	1.52E-10	0.00E+00	4.29E-07	1.13E-08	4.74E-08	2.27E-11	0.00E+00	5.87E-08	6.91E-09	2.18E-08	5.26E-12	0.00E+00	2.87E-08
1719	420491.14	3734569.83	7.86E-08	3.32E-07	1.46E-10	0.00E+00	4.10E-07	1.08E-08	4.54E-08	2.17E-11	0.00E+00	5.62E-08	6.61E-09	2.08E-08	5.03E-12	0.00E+00	2.75E-08
1720	420484.46	3734563.17	7.50E-08	3.17E-07	1.39E-10	0.00E+00	3.92E-07	1.03E-08	4.33E-08	2.07E-11	0.00E+00	5.36E-08	6.31E-09	1.99E-08	4.81E-12	0.00E+00	2.62E-08
1721	420457.76	3734536.55	6.19E-08	2.61E-07	1.15E-10	0.00E+00	3.23E-07	8.49E-09	3.57E-08	1.71E-11	0.00E+00	4.42E-08	5.21E-09	1.64E-08	3.97E-12	0.00E+00	2.16E-08
1722	420451.08	3734529.89	5.90E-08	2.49E-07	1.09E-10	0.00E+00	3.08E-07	8.08E-09	3.40E-08	1.63E-11	0.00E+00	4.21E-08	4.96E-09	1.56E-08	3.78E-12	0.00E+00	2.06E-08
1723	420444.4	3734523.23	5.61E-08	2.37E-07	1.04E-10	0.00E+00	2.93E-07	7.70E-09	3.24E-08	1.55E-11	0.00E+00	4.01E-08	4.72E-09	1.49E-08	3.60E-12	0.00E+00	1.96E-08
1724	420425.13	3734471.15	5.05E-08	2.13E-07	9.36E-11	0.00E+00	2.64E-07	6.92E-09	2.92E-08	1.39E-11	0.00E+00	3.61E-08	4.25E-09	1.34E-08	3.23E-12	0.00E+00	1.77E-08
1725	420422.61	3734462.07	4.99E-08	2.11E-07	9.24E-11	0.00E+00	2.60E-07	6.84E-09	2.88E-08	1.38E-11	0.00E+00	3.56E-08	4.20E-09	1.32E-08	3.19E-12	0.00E+00	1.74E-08
1726	420415.05	3734434.81	4.80E-08	2.03E-07	8.89E-11	0.00E+00	2.51E-07	6.57E-09	2.77E-08	1.32E-11	0.00E+00	3.43E-08	4.03E-09	1.27E-08	3.07E-12	0.00E+00	1.68E-08
1727	420412.54	3734425.72	4.73E-08	2.00E-07	8.77E-11	0.00E+00	2.47E-07	6.49E-09	2.73E-08	1.31E-11	0.00E+00	3.38E-08	3.98E-09	1.26E-08	3.03E-12	0.00E+00	1.65E-08
1728	420410.02	3734416.64	4.67E-08	1.97E-07	8.65E-11	0.00E+00	2.44E-07	6.40E-09	2.70E-08	1.29E-11	0.00E+00	3.34E-08	3.93E-09	1.24E-08	2.99E-12	0.00E+00	1.63E-08
1729	420407.5	3734407.55	4.60E-08	1.94E-07	8.53E-11	0.00E+00	2.41E-07	6.31E-09	2.66E-08	1.27E-11	0.00E+00	3.29E-08	3.87E-09	1.22E-08	2.95E-12	0.00E+00	1.61E-08
1730	420524.52	3734603.11	9.69E-08	4.09E-07	1.80E-10	0.00E+00	5.06E-07	1.33E-08	5.60E-08	2.67E-11	0.00E+00	6.93E-08	8.15E-09	2.57E-08	6.21E-12	0.00E+00	3.39E-08
1731	420532.87	3734607.95	1.03E-07	4.35E-07	1.91E-10	0.00E+00	5.39E-07	1.41E-08	5.95E-08	2.84E-11	0.00E+00	7.37E-08	8.67E-09	2.74E-08	6.60E-12	0.00E+00	3.60E-08
1732	420541.21	3734612.79	1.10E-07	4.63E-07	2.03E-10	0.00E+00	5.72E-07	1.50E-08	6.32E-08	3.02E-11	0.00E+00	7.83E-08	9.22E-09	2.91E-08	7.02E-12	0.00E+00	3.83E-08
1733	420549.55	3734617.63	1.16E-07	4.91E-07	2.15E-10	0.00E+00	6.07E-07	1.59E-08	6.71E-08	3.21E-11	0.00E+00	8.30E-08	9.77E-09	3.08E-08	7.44E-12	0.00E+00	4.06E-08
1734	420507.77	3734613.72	7.91E-08	3.34E-07	1.47E-10	0.00E+00	4.13E-07	1.08E-08	4.57E-08	2.18E-11	0.00E+00	5.65E-08	6.66E-09	2.10E-08	5.07E-12	0.00E+00	2.77E-08
1735	420501.05	3734607.02	7.64E-08	3.23E-07	1.42E-10	0.00E+00	3.99E-07	1.05E-08	4.41E-08	2.11E-11	0.00E+00	5.46E-08	6.43E-09	2.03E-08	4.89E-12	0.00E+00	2.67E-08
1736	420494.34	3734600.32	7.36E-08	3.11E-07	1.36E-10	0.00E+00	3.85E-07	1.01E-08	4.25E-08	2.03E-11	0.00E+00	5.26E-08	6.20E-09	1.95E-08	4.72E-12	0.00E+00	2.57E-08
1737	420487.62	3734593.63	7.09E-08	2.99E-07	1.31E-10	0.00E+00	3.70E-07	9.72E-09	4.09E-08	1.96E-11	0.00E+00	5.07E-08	5.96E-09	1.88E-08	4.54E-12	0.00E+00	2.48E-08
1738	420480.9	3734586.93	6.81E-08	2.88E-07	1.26E-10	0.00E+00	3.56E-07	9.34E-09	3.93E-08	1.88E-11	0.00E+00	4.87E-08	5.73E-09	1.81E-08	4.36E-12	0.00E+00	2.38E-08
1739	420474.19	3734580.23	6.54E-08	2.76E-07	1.21E-10	0.00E+00	3.42E-07	8.96E-09	3.77E-08	1.80E-11	0.00E+00	4.67E-08	5.50E-09	1.73E-08	4.19E-12	0.00E+00	2.29E-08
1740	420467.47	3734573.54	6.27E-08	2.65E-07	1.16E-10	0.00E+00	3.27E-07	8.59E-09	3.62E-08	1.73E-11	0.00E+00	4.48E-08	5.27E-09	1.66E-08	4.01E-12	0.00E+00	2.19E-08
1741	420460.76	3734566.84	6.00E-08	2.53E-07	1.11E-10	0.00E+00	3.14E-07	8.23E-09	3.47E-08	1.66E-11	0.00E+00	4.29E-08	5.05E-09	1.59E-08	3.85E-12	0.00E+00	2.10E-08
1742	420454.04	3734560.15	5.74E-08	2.43E-07	1.06E-10	0.00E+00	3.00E-07	7.87E-09	3.32E-08	1.58E-11	0.00E+00	4.11E-08	4.83E-09	1.52E-08	3.68E-12	0.00E+00	2.01E-08
1743	420427.17	3734533.36	4.80E-08	2.03E-07	8.89E-11	0.00E+00	2.51E-07	6.58E-09	2.77E-08	1.32E-11	0.00E+00	3.43E-08	4.04E-09	1.27E-08	3.07E-12	0.00E+00	1.68E-08
1744	420417.92	3734517.53	4.54E-08	1.92E-07	8.42E-11	0.00E+00	2.37E-07	6.23E-09	2.62E-08	1.25E-11	0.00E+00	3.25E-08	3.82E-09	1.21E-08	2.91E-12	0.00E+00	1.59E-08

1745	420415.39	3734508.39	4.50E-08	1.90E-07	8.34E-11	0.00E+00	2.35E-07	6.17E-09	2.60E-08	1.24E-11	0.00E+00	3.22E-08	3.79E-09	1.19E-08	2.88E-12	0.00E+00	1.57E-08
1746	420412.86	3734499.25	4.45E-08	1.88E-07	8.25E-11	0.00E+00	2.33E-07	6.10E-09	2.57E-08	1.23E-11	0.00E+00	3.18E-08	3.75E-09	1.18E-08	2.85E-12	0.00E+00	1.56E-08
1747	420410.32	3734490.11	4.40E-08	1.86E-07	8.16E-11	0.00E+00	2.30E-07	6.04E-09	2.54E-08	1.22E-11	0.00E+00	3.15E-08	3.71E-09	1.17E-08	2.82E-12	0.00E+00	1.54E-08
1748	420407.79	3734480.97	4.36E-08	1.84E-07	8.07E-11	0.00E+00	2.28E-07	5.97E-09	2.51E-08	1.20E-11	0.00E+00	3.11E-08	3.66E-09	1.16E-08	2.79E-12	0.00E+00	1.52E-08
1749	420405.25	3734471.83	4.31E-08	1.82E-07	7.98E-11	0.00E+00	2.25E-07	5.90E-09	2.49E-08	1.19E-11	0.00E+00	3.08E-08	3.62E-09	1.14E-08	2.76E-12	0.00E+00	1.51E-08
1750	420402.72	3734462.69	4.26E-08	1.80E-07	7.89E-11	0.00E+00	2.22E-07	5.83E-09	2.46E-08	1.17E-11	0.00E+00	3.04E-08	3.58E-09	1.13E-08	2.73E-12	0.00E+00	1.49E-08
1751	420395.12	3734435.27	4.11E-08	1.73E-07	7.61E-11	0.00E+00	2.15E-07	5.63E-09	2.37E-08	1.13E-11	0.00E+00	2.94E-08	3.46E-09	1.09E-08	2.63E-12	0.00E+00	1.44E-08
1752	420392.58	3734426.13	4.06E-08	1.71E-07	7.52E-11	0.00E+00	2.12E-07	5.56E-09	2.34E-08	1.12E-11	0.00E+00	2.90E-08	3.42E-09	1.08E-08	2.60E-12	0.00E+00	1.42E-08
1753	420390.05	3734416.99	4.01E-08	1.69E-07	7.43E-11	0.00E+00	2.10E-07	5.50E-09	2.32E-08	1.11E-11	0.00E+00	2.87E-08	3.37E-09	1.06E-08	2.57E-12	0.00E+00	1.40E-08
1754	420387.51	3734407.85	3.96E-08	1.67E-07	7.34E-11	0.00E+00	2.07E-07	5.43E-09	2.29E-08	1.09E-11	0.00E+00	2.83E-08	3.33E-09	1.05E-08	2.54E-12	0.00E+00	1.38E-08
1755	420514.49	3734620.41	8.19E-08	3.46E-07	1.52E-10	0.00E+00	4.28E-07	1.12E-08	4.73E-08	2.26E-11	0.00E+00	5.85E-08	6.89E-09	2.17E-08	5.24E-12	0.00E+00	2.86E-08
1756	420522.83	3734625.25	8.65E-08	3.65E-07	1.60E-10	0.00E+00	4.52E-07	1.19E-08	5.00E-08	2.39E-11	0.00E+00	6.18E-08	7.28E-09	2.30E-08	5.54E-12	0.00E+00	3.02E-08
1757	420531.17	3734630.09	9.13E-08	3.86E-07	1.69E-10	0.00E+00	4.77E-07	1.25E-08	5.27E-08	2.52E-11	0.00E+00	6.53E-08	7.68E-09	2.42E-08	5.85E-12	0.00E+00	3.19E-08
1758	420539.51	3734634.93	9.63E-08	4.06E-07	1.78E-10	0.00E+00	5.03E-07	1.32E-08	5.56E-08	2.66E-11	0.00E+00	6.88E-08	8.10E-09	2.55E-08	6.17E-12	0.00E+00	3.36E-08
1759	420497.7	3734630.98	6.78E-08	2.86E-07	1.26E-10	0.00E+00	3.54E-07	9.30E-09	3.92E-08	1.87E-11	0.00E+00	4.85E-08	5.71E-09	1.80E-08	4.35E-12	0.00E+00	2.37E-08
1760	420490.95	3734624.25	6.58E-08	2.78E-07	1.22E-10	0.00E+00	3.44E-07	9.01E-09	3.80E-08	1.81E-11	0.00E+00	4.70E-08	5.53E-09	1.74E-08	4.21E-12	0.00E+00	2.30E-08
1761	420484.2	3734617.52	6.36E-08	2.69E-07	1.18E-10	0.00E+00	3.33E-07	8.72E-09	3.67E-08	1.76E-11	0.00E+00	4.55E-08	5.35E-09	1.69E-08	4.08E-12	0.00E+00	2.22E-08
1762	420477.45	3734610.79	6.15E-08	2.60E-07	1.14E-10	0.00E+00	3.21E-07	8.43E-09	3.55E-08	1.70E-11	0.00E+00	4.40E-08	5.18E-09	1.63E-08	3.94E-12	0.00E+00	2.15E-08
1763	420470.7	3734604.06	5.94E-08	2.51E-07	1.10E-10	0.00E+00	3.10E-07	8.14E-09	3.43E-08	1.64E-11	0.00E+00	4.24E-08	5.00E-09	1.58E-08	3.80E-12	0.00E+00	2.08E-08
1764	420463.95	3734597.33	5.72E-08	2.42E-07	1.06E-10	0.00E+00	2.99E-07	7.85E-09	3.31E-08	1.58E-11	0.00E+00	4.09E-08	4.82E-09	1.52E-08	3.67E-12	0.00E+00	2.00E-08
1765	420457.19	3734590.6	5.51E-08	2.33E-07	1.02E-10	0.00E+00	2.88E-07	7.56E-09	3.18E-08	1.52E-11	0.00E+00	3.94E-08	4.64E-09	1.46E-08	3.53E-12	0.00E+00	1.93E-08
1766	420450.44	3734583.87	5.30E-08	2.24E-07	9.82E-11	0.00E+00	2.77E-07	7.27E-09	3.06E-08	1.46E-11	0.00E+00	3.79E-08	4.46E-09	1.41E-08	3.40E-12	0.00E+00	1.85E-08
1767	420443.69	3734577.14	5.09E-08	2.15E-07	9.44E-11	0.00E+00	2.66E-07	6.98E-09	2.94E-08	1.41E-11	0.00E+00	3.64E-08	4.29E-09	1.35E-08	3.26E-12	0.00E+00	1.78E-08
1768	420436.94	3734570.41	4.89E-08	2.06E-07	9.06E-11	0.00E+00	2.55E-07	6.70E-09	2.82E-08	1.35E-11	0.00E+00	3.50E-08	4.11E-09	1.30E-08	3.13E-12	0.00E+00	1.71E-08
1769	420400.64	3734527.57	3.93E-08	1.66E-07	7.29E-11	0.00E+00	2.06E-07	5.39E-09	2.27E-08	1.09E-11	0.00E+00	2.81E-08	3.31E-09	1.04E-08	2.52E-12	0.00E+00	1.38E-08
1770	420398.09	3734518.38	3.90E-08	1.65E-07	7.23E-11	0.00E+00	2.04E-07	5.35E-09	2.25E-08	1.08E-11	0.00E+00	2.79E-08	3.28E-09	1.04E-08	2.50E-12	0.00E+00	1.36E-08
1771	420395.55	3734509.19	3.86E-08	1.63E-07	7.16E-11	0.00E+00	2.02E-07	5.30E-09	2.23E-08	1.07E-11	0.00E+00	2.76E-08	3.25E-09	1.03E-08	2.48E-12	0.00E+00	1.35E-08
1772	420393	3734500.01	3.83E-08	1.62E-07	7.09E-11	0.00E+00	2.00E-07	5.25E-09	2.21E-08	1.06E-11	0.00E+00	2.74E-08	3.22E-09	1.02E-08	2.45E-12	0.00E+00	1.34E-08
1773	420390.45	3734490.82	3.79E-08	1.60E-07	7.02E-11	0.00E+00	1.98E-07	5.19E-09	2.19E-08	1.05E-11	0.00E+00	2.71E-08	3.19E-09	1.01E-08	2.43E-12	0.00E+00	1.32E-08
1774	420387.91	3734481.64	3.75E-08	1.58E-07	6.95E-11	0.00E+00	1.96E-07	5.14E-09	2.16E-08	1.03E-11	0.00E+00	2.68E-08	3.15E-09	9.95E-09	2.40E-12	0.00E+00	1.31E-08
1775	420385.36	3734472.45	3.71E-08	1.57E-07	6.87E-11	0.00E+00	1.94E-07	5.09E-09	2.14E-08	1.02E-11	0.00E+00	2.65E-08	3.12E-09	9.85E-09	2.38E-12	0.00E+00	1.30E-08
1776	420382.81	3734463.26	3.67E-08	1.55E-07	6.80E-11	0.00E+00	1.92E-07	5.03E-09	2.12E-08	1.01E-11	0.00E+00	2.62E-08	3.09E-09	9.74E-09	2.35E-12	0.00E+00	1.28E-08
1777	420375.17	3734435.71	3.55E-08	1.50E-07	6.58E-11	0.00E+00	1.86E-07	4.87E-09	2.05E-08	9.80E-12	0.00E+00	2.54E-08	2.99E-09	9.43E-09	2.28E-12	0.00E+00	1.24E-08
1778	420372.62	3734426.52	3.51E-08	1.48E-07	6.51E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.70E-12	0.00E+00	2.51E-08	2.96E-09	9.32E-09	2.25E-12	0.00E+00	1.23E-08
1779	420370.08	3734417.33	3.48E-08	1.47E-07	6.44E-11	0.00E+00	1.82E-07	4.77E-09	2.01E-08	9.59E-12	0.00E+00	2.48E-08	2.92E-09	9.22E-09	2.23E-12	0.00E+00	1.22E-08
1780	420367.53	3734408.15	3.44E-08	1.45E-07	6.37E-11	0.00E+00	1.80E-07	4.71E-09	1.98E-08	9.49E-12	0.00E+00	2.46E-08	2.89E-09	9.12E-09	2.20E-12	0.00E+00	1.20E-08
1781	420537.82	3734657.07	8.45E-08	3.57E-07	1.57E-10	0.00E+00	4.42E-07	1.16E-08	4.88E-08	2.33E-11	0.00E+00	6.04E-08	7.11E-09	2.24E-08	5.41E-12	0.00E+00	2.95E-08
1782	420474.07	3734634.73	5.54E-08	2.34E-07	1.03E-10	0.00E+00	2.89E-07	7.59E-09	3.20E-08	1.53E-11	0.00E+00	3.96E-08	4.66E-09	1.47E-08	3.55E-12	0.00E+00	1.94E-08
1783	420467.29	3734627.97	5.37E-08	2.27E-07	9.95E-11	0.00E+00	2.81E-07	7.36E-09	3.10E-08	1.48E-11	0.00E+00	3.84E-08	4.52E-09	1.43E-08	3.44E-12	0.00E+00	1.88E-08
1784	420460.51	3734621.21	5.20E-08	2.20E-07	9.64E-11	0.00E+00	2.72E-07	7.13E-09	3.00E-08	1.44E-11	0.00E+00	3.72E-08	4.38E-09	1.38E-08	3.33E-12	0.00E+00	1.82E-08
1785	420453.73	3734614.45	5.04E-08	2.13E-07	9.33E-11	0.00E+00	2.63E-07	6.90E-09	2.91E-08	1.39E-11	0.00E+00	3.60E-08	4.24E-09	1.34E-08	3.23E-12	0.00E+00	1.76E-08
1786	420446.95	3734607.69	4.87E-08	2.06E-07	9.02E-11	0.00E+00	2.54E-07	6.67E-09	2.81E-08	1.34E-11	0.00E+00	3.48E-08	4.09E-09	1.29E-08	3.12E-12	0.00E+00	1.70E-08
1787	420440.17	3734600.93	4.70E-08	1.98E-07	8.70E-11	0.00E+00	2.45E-07	6.44E-09	2.71E-08	1.30E-11	0.00E+00	3.36E-08	3.95E-09	1.25E-08	3.01E-12	0.00E+00	1.64E-08
1788	420413.04	3734573.88	4.04E-08	1.71E-07	7.49E-11	0.00E+00	2.11E-07	5.54E-09	2.34E-08	1.12E-11	0.00E+00	2.89E-08	3.40E-09	1.07E-08	2.59E-12	0.00E+00	1.41E-08
1789	420406.26	3734567.12	3.89E-08	1.64E-07	7.21E-11	0.00E+00	2.03E-07	5.33E-09	2.25E-08	1.07E-11	0.00E+00	2.78E-08	3.27E-09	1.03E-08	2.49E-12	0.00E+00	1.36E-08
1790	420399.48	3734560.36	3.74E-08	1.58E-07	6.93E-11	0.00E+00	1.95E-07	5.13E-09	2.16E-08	1.03E-11	0.00E+00	2.67E-08	3.15E-09	9.93E-09	2.40E-12	0.00E+00	1.31E-08
1791	420383.36	3734537.61	3.43E-08	1.45E-07	6.36E-11	0.00E+00	1.79E-07	4.71E-09	1.98E-08	9.48E-12	0.00E+00	2.45E-08	2.89E-09	9.11E-09	2.20E-12	0.00E+00	1.20E-08
1792	420380.8	3734528.39	3.41E-08	1.44E-07	6.31E-11	0.00E+00	1.78E-07	4.67E-09	1.97E-08	9.40E-12	0.00E+00	2.44E-08	2.87E-09	9.04E-09	2.18E-12	0.00E+00	1.19E-08
1793	420378.24	3734519.16	3.38E-08	1.43E-07	6.26E-11	0.00E+00	1.77E-07	4.63E-09	1.95E-08	9.33E-12	0.00E+00	2.42E-08	2.84E-09	8.97E-09	2.16E-12	0.00E+00	1.18E-08
1794	420375.69	3734509.93	3.35E-08	1.41E-07	6.21E-11	0.00E+00	1.75E-07	4.59E-09	1.93E-08	9.25E-12	0.00E+00	2.39E-08	2.82E-09	8.89E-09	2.15E-12	0.00E+00	1.17E-08
1795	420373.13	3734500.7	3.32E-08	1.40E-07	6.15E-11	0.00E+00	1.73E-07	4.55E-09	1.92E-08	9.16E-12	0.00E+00	2.37E-08	2.79E-09	8.81E-09	2.13E-12	0.00E+00	1.16E-08
1796	420370.57	3734491.48	3.29E-08	1.39E-07	6.09E-11	0.00E+00	1.72E-07	4.51E-09	1.90E-08	9.07E-12	0.00E+00	2.35E-08	2.77E-09	8.73E-09	2.11E-12	0.00E+00	1.15E-08
1797	420368.01	3734482.25	3.26E-08	1.38E-07	6.03E-11	0.00E+00	1.70E-07	4.46E-09	1.88E-08	8.99E-12	0.00E+00	2.33E-08	2.74E-09	8.64E-09	2.09E-12	0.00E+00	1.14E-08
1798	420365.45	3734473.02	3.22E-08	1.36E-07	5.97E-11	0.00E+00	1.68E-07	4.42E-09	1.86E-08	8.90E-12	0.00E+00	2.30E-08	2.71E-09	8.56E-09	2.07E-12	0.00E+00	1.13E-08
1799	420362.89	3734463.8	3.19E-08	1.35E-07	5.91E-11	0.00E+00	1.67E-07	4.38E-09	1.84E-08	8.81E-12	0.00E+00	2.28E-08	2.69E-09	8.47E-09	2.04E-12	0.00E+00	1.12E-08
1800	420355.22	3734436.11	3.10E-08	1.31E-07	5.74E-11	0.00E+00	1.62E-07	4.25E-09	1.79E-08	8.55E-12	0.00E+00	2.21E-08	2.61E-09	8.22E-09	1.98E-12	0.00E+00	1.08E-08
1801	420352.66	3734426.89	3.07E-08	1.30E-07	5.68E-11	0.00E+00	1.60E-07	4.21E-09	1.77E-08	8.46E-12	0.00E+00	2.19E-08	2.58E-09	8.14E-09	1.97E-12	0.00E+00	1.07E-08
1802	420350.1	3734417.66	3.04E-08	1.28E-07	5.63E-11	0.00E+00	1.59E-07	4.16E-09	1.75E-08	8.38E-12	0.00E+00	2.17E-08	2.55E-09	8.06E-09	1.95E-12	0.00E+00	1.06E-08
1803	420347.54	3734408.43	3.01E-08	1.27E-07	5.57E-11	0.00E+00	1.57E-07	4.12E-09	1.74E-08	8.30E-12	0.00E+00	2.15E-08	2.53E-09	7.98E-09	1.93E-12	0.00E+00	1.05E-08
1804	420502.76	3734659.85	6.30E-08	2.66E-07	1.17E-10	0.00E+00	3.29E-07	8.64E-09	3.64E-08	1.74E-11	0.00E+00	4.50E-08	5.30E-09	1.67E-08	4.04E-12	0.00E+00	2.20E-08
1805	420511.1	3734664.69	6.58E-08	2.78E-07	1.22E-10	0.00E+00	3.44E-07	9.02E-09	3.80E-08	1.82E-11	0.00E+00	4.70E-08	5.54E-09	1.75E-08	4.22E-12	0.00E+00	2.30E-08
1806	420519.44	3734669.53	6.86E-08	2.90E-07	1.27E-10	0.00E+00	3.59E-07	9.41E-09	3.96E-08	1.89E-11	0.00E+00	4.91E-08	5.77E-09	1.82E-08	4.40E-12	0.00E+00	2.40E-08
1807	420527.78	3734674.37	7.15E-08	3.02E-07	1.32E-10	0.00E+00	3.73E-07	9.79E-09	4.13E-08	1.97E-11	0.00E+00	5.11E-08	6.01E-09	1.90E-08	4.58E-12	0.00E+00	2.50E-08
1808	420467.87	3734683.16	4.49E-08	1.89E-07	8.31E-11	0.00E+00	2.34E-07	6.15E-09	2.59E-08	1.24E-11	0.00E+00	3.21E-08	3.77E-09	1.19E-08	2.87E-12	0.00E+00	1.57E-08
1809	420461.4	3734676.71	4.39E-08	1.85E-07	8.13E-11	0.00E+00	2.29E-07	6.02E-09	2.53E-08	1.21E-11	0.00E+00	3.14E-08	3.69E-09	1.16E-08	2.81E-12	0.00E+00	1.53E-08
1810	420454.93	3734670.25	4.27E-08	1.80E-07	7.92E-11	0.00E+00	2.23E-07	5.86E-09	2.47E-08	1.18E-11	0.00E+00	3.05E-08	3.60E-09	1.13E-08	2.74E-12	0.00E+00	1.49E-08
1811	420448.45	3734663.8	4.18E-08	1.76E-07	7.74E-11	0.00E+00	2.18E-07	5.72E-09	2.41E-08	1.15E-11	0.00E+00	2.98E-08	3.51E-09	1.11E-08	2.67E-12	0.00E+00	1.46E-08
1812	420416.1	3734631.54	3.67E-08	1.55E-07	6.80E-11	0.00E+00	1.92E-07	5.03E-09	2.12E-08	1.01E-11	0.00E+00	2.62E-08	3.09E-09	9.75E-09	2.35E-12	0.00E+00	1.28E-08
1813	420409.62	3734625.09	3.57E-08	1.51E-07	6.61E-11	0.00E+00	1.86E-07	4.89E-09	2.06E-08	9.84E-12	0.00E+00	2.55E-08	3.00E-09	9.47E-09	2.29E-12	0.00E+00	1.25E-08
1814	420396.68	3734612.18	3.36E-08	1.42E-07	6.23E-11	0.00E+00	1.76E-07	4.61E-09	1.94E-08	9.27E-12	0.00E+00	2.40E-08	2.83E-09	8.92E-09	2.15E-12	0.00E+00	1.17E-08
1815	420390.21	3734605.73	3.26E-08	1.38E-07	6.04E-11	0.00E+00	1.70E-07	4.47E-09	1.88E-08	8.99E-12	0.00E+00	2.33E-08	2.74E-09	8.64E-09	2.09E-12	0.00E+00	1.14E-08
1816	420383.74	3734599.28	3.16E-08	1.33E-07	5.85E-11	0.00E+00	1.65E-07	4.33E-09	1.82E-08	8.71E-12	0.00E+00	2.26E-08	2.66E-09	8.38E-09	2.02E-12	0.00E+00	1.10E-08
1817	420377.27	3734592.83	3.06E-08	1.29E-07	5.67E-11	0.00E+00	1.60E-07	4.19E-09	1.77E-08	8.44E-12	0.00E+00	2.19E-08	2.57E-09	8.12E-09	1.96E-12	0.00E+00	1.07E-08
1818	420370.8	3734586.37	2.96E-08	1.25E-07	5.49E-11	0.00E+00	1.55E-07	4.06E-09	1.71E-08	8.17E-12	0.00E+00	2.12E-08	2.49E-09	7.86E-09	1.90E-12	0.00E+00	1.04E-08
1819	420357.85	3734573.47	2.78E-08	1.17E-07	5.14E-11	0.00E+00	1.45E-07	3.81E-09	1.60E-08	7.66E-12	0.00E+00	1.98E-08	2.34E-09	7.37E-09	1.78E-12	0.00E+00	9.71E-09
1820	420341.61	3734531.79	2.62E-08	1.11E-07	4.86E-11	0.00E+00	1.37E-07	3.60E-09	1.51E-08	7.24E-12	0.00E+00	1.88E-08	2.21E-09	6.96E-09	1.68E-12	0.00E+00	9.17E-09
1821	420339.17	3734522.99	2.61E-08	1.10E-07	4.83E-11	0.00E+00	1.36E-07	3.57E-09	1.50E-08	7.19E-12	0.00E+00	1.86E-08	2.19E-09	6.91E-09	1.67E-12	0.00E+00	9.11E-09
1822	420336.73	3734514.18	2.59E-08	1.09E-07	4.79E-11	0.00E+00	1.35E-07	3.55E-09	1.49E-08	7.14E-12	0.00E+00	1.85E-08	2.18E-09	6.86E-09	1.66E-12	0.00E+00	9.04E-09
1823	420334.29	3734505.37	2.57E-08	1.08E-07	4.75E-11	0.00E+00	1.34E-07	3.52E-09	1.48E-08	7.08E-12	0.00E+00	1.83E-08	2.16E-09	6.81E-09	1.64E-12	0.00E+00	8.97E-09
1824	420331.85	3734496.57	2.55E-08	1.08E-07	4.72E-11	0.00E+00	1.33E-07	3.49E-09	1.47E-08	7.03E-12	0.00E+00	1.82E-08	2.14E-09	6.76E-09	1.63E-12	0.00E+00	8.90E-09
1825	420329.4	3734487.76	2.53E-08	1.07E-07	4.68E-11	0.00E+00	1.32E-07	3.46E-09	1.46E-08	6.97E-12	0.00E+00	1.81E-08	2.13E-09	6.70E-09	1.62E-12	0.00E+00	8.83E-09
1826	420326.96	3734478.95	2.51E-08	1.06E-07	4.64E-11	0.00E+00	1.31E-07	3.44E-09	1.45E-08	6.92E-12	0.00E+00	1.79E-08	2.11E-09	6.65E-09	1.61E-12	0.00E+00	8.76E-09
1827	420324.52	3734470.15	2.49E-08	1.05E-07	4.61E-11	0.00E+00	1.30E-07	3.41E-09	1.44E-08	6.86E-12	0.00E+00	1.78E-08	2.09E-09	6.60E-09	1.59E-12	0.00E+00	8.69E-09
1828	420322.08	3734461.34	2.47E-08	1.04E-07	4.57E-11	0.00E+00	1.29E-07	3.38E-09	1.42E-08	6.80E-12	0.00E+00	1.76E-08	2.07E-09	6.54E-09	1.58E-12	0.00E+00	8.62E-09
1829	420317.19	3734443.73	2.43E-08	1.02E-07	4.49E-11	0.00E+00	1.27E-07	3.33E-09	1.40E-08	6.69E-12	0.00E+00	1.73E-08	2.04E-09	6.44E-09	1.55E-12	0.00E+00	8.48E-09
1830	420314.75	3734434.92	2.41E-08	1.02E-07	4.46E-11	0.00E+00	1.26E-07	3.30E-09	1.39E-08	6.64E-12	0.00E+00	1.72E-08	2.02E-09	6.38E-09	1.54E-12	0.00E+00	8.41E-09
1831	420312.31	3734426.12	2.39E-08	1.01E-07	4.42E-11	0.00E+00	1.25E-07	3.27E-09	1.38E-08	6.58E-12	0.00E+00	1.71E-08	2.01E-09	6.33E-09	1.53E-12	0.00E+00	8.34E-09
1832	420309.87	3734417.31	2.37E-08	9.99E-08	4.38E-11	0.00E+00	1.24E-07	3.24E-09	1.37E-08	6.53E-12	0.00E+00	1.69E-08	1.99E-09	6.28E-09	1.52E-12	0.00E+00	8.27E-09
1833	420307.43	3734408.5	2.35E-08	9.91E-08	4.35E-11	0.00E+00	1.23E-07	3.22E-09	1.35E-08	6.47E-12	0.00E+00	1.68E-08	1.97E-09	6.23E-09	1.50E-12	0.00E+00	8.20E-09
1834	420482.68	3734694.45	4.75E-08	2.01E-07	8.81E-11	0.00E+00	2.48E-07	6.52E-09	2.75E-08	1.31E-11	0.00E+00	3.40E-08	4.00E-09	1.26E-08	3.05E-12	0.00E+00	1.66E-08
1835	420491.03	3734699.29	4.93E-08	2.08E-07	9.13E-11	0.00E+00	2.57E-07	6.76E-09	2.85E-08	1.36E-11	0.00E+00	3.52E-08	4.15E-09	1.31E-08	3.16E-12	0.00E+00	1.72E-08
1836	420499.37	3734704.13	5.10E-08	2.15E-07	9.45E-11	0.00E+00	2.66E-07	6.99E-09	2.94E-08	1.41E-11	0.00E+00	3.65E-08	4.29E-09	1.35E-08	3.27E-12	0.00E+00	1.78E-08

1837	420507.71	3734708.97	5.27E-08	2.23E-07	9.76E-11	0.00E+00	2.75E-07	7.22E-09	3.04E-08	1.45E-11	0.00E+00	3.77E-08	4.43E-09	1.40E-08	3.38E-12	0.00E+00	1.84E-08
1838	420447.72	3734717.68	3.52E-08	1.49E-07	6.52E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.71E-12	0.00E+00	2.51E-08	2.96E-09	9.34E-09	2.25E-12	0.00E+00	1.23E-08
1839	420441.18	3734711.16	3.46E-08	1.46E-07	6.40E-11	0.00E+00	1.81E-07	4.74E-09	2.00E-08	9.54E-12	0.00E+00	2.47E-08	2.91E-09	9.17E-09	2.21E-12	0.00E+00	1.21E-08
1840	420434.64	3734704.64	3.39E-08	1.43E-07	6.28E-11	0.00E+00	1.77E-07	4.65E-09	1.96E-08	9.36E-12	0.00E+00	2.42E-08	2.85E-09	9.00E-09	2.17E-12	0.00E+00	1.19E-08
1841	420415	3734685.06	3.18E-08	1.34E-07	5.90E-11	0.00E+00	1.66E-07	4.37E-09	1.84E-08	8.79E-12	0.00E+00	2.28E-08	2.68E-09	8.45E-09	2.04E-12	0.00E+00	1.11E-08
1842	420408.46	3734678.54	3.11E-08	1.31E-07	5.77E-11	0.00E+00	1.63E-07	4.27E-09	1.80E-08	8.59E-12	0.00E+00	2.22E-08	2.62E-09	8.26E-09	1.99E-12	0.00E+00	1.09E-08
1843	420401.91	3734672.01	3.04E-08	1.28E-07	5.63E-11	0.00E+00	1.59E-07	4.17E-09	1.76E-08	8.39E-12	0.00E+00	2.17E-08	2.56E-09	8.07E-09	1.95E-12	0.00E+00	1.06E-08
1844	420395.37	3734665.49	2.97E-08	1.25E-07	5.50E-11	0.00E+00	1.55E-07	4.07E-09	1.71E-08	8.19E-12	0.00E+00	2.12E-08	2.50E-09	7.88E-09	1.90E-12	0.00E+00	1.04E-08
1845	420388.83	3734658.96	2.90E-08	1.22E-07	5.37E-11	0.00E+00	1.51E-07	3.97E-09	1.67E-08	8.00E-12	0.00E+00	2.07E-08	2.44E-09	7.69E-09	1.86E-12	0.00E+00	1.01E-08
1846	420382.28	3734652.44	2.82E-08	1.19E-07	5.23E-11	0.00E+00	1.48E-07	3.87E-09	1.63E-08	7.79E-12	0.00E+00	2.02E-08	2.38E-09	7.49E-09	1.81E-12	0.00E+00	9.87E-09
1847	420375.74	3734645.91	2.75E-08	1.16E-07	5.10E-11	0.00E+00	1.44E-07	3.77E-09	1.59E-08	7.59E-12	0.00E+00	1.97E-08	2.31E-09	7.30E-09	1.76E-12	0.00E+00	9.62E-09
1848	420369.19	3734639.39	2.68E-08	1.13E-07	4.96E-11	0.00E+00	1.40E-07	3.67E-09	1.55E-08	7.39E-12	0.00E+00	1.91E-08	2.25E-09	7.11E-09	1.72E-12	0.00E+00	9.36E-09
1849	420362.65	3734632.86	2.61E-08	1.10E-07	4.83E-11	0.00E+00	1.36E-07	3.57E-09	1.51E-08	7.19E-12	0.00E+00	1.86E-08	2.19E-09	6.92E-09	1.67E-12	0.00E+00	9.11E-09
1850	420356.11	3734626.34	2.54E-08	1.07E-07	4.70E-11	0.00E+00	1.33E-07	3.48E-09	1.46E-08	7.00E-12	0.00E+00	1.81E-08	2.13E-09	6.73E-09	1.63E-12	0.00E+00	8.87E-09
1851	420349.56	3734619.82	2.47E-08	1.04E-07	4.57E-11	0.00E+00	1.29E-07	3.38E-09	1.42E-08	6.81E-12	0.00E+00	1.76E-08	2.08E-09	6.55E-09	1.58E-12	0.00E+00	8.63E-09
1852	420343.02	3734613.29	2.40E-08	1.01E-07	4.44E-11	0.00E+00	1.25E-07	3.29E-09	1.38E-08	6.62E-12	0.00E+00	1.71E-08	2.02E-09	6.37E-09	1.54E-12	0.00E+00	8.38E-09
1853	420336.47	3734606.77	2.33E-08	9.84E-08	4.32E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.43E-12	0.00E+00	1.67E-08	1.96E-09	6.19E-09	1.49E-12	0.00E+00	8.15E-09
1854	420329.93	3734600.24	2.26E-08	9.56E-08	4.20E-11	0.00E+00	1.18E-07	3.10E-09	1.31E-08	6.25E-12	0.00E+00	1.62E-08	1.91E-09	6.01E-09	1.45E-12	0.00E+00	7.92E-09
1855	420323.39	3734593.72	2.20E-08	9.29E-08	4.08E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.07E-12	0.00E+00	1.57E-08	1.85E-09	5.84E-09	1.41E-12	0.00E+00	7.69E-09
1856	420314.37	3734578.29	2.13E-08	8.99E-08	3.94E-11	0.00E+00	1.11E-07	2.92E-09	1.23E-08	5.87E-12	0.00E+00	1.52E-08	1.79E-09	5.65E-09	1.36E-12	0.00E+00	7.44E-09
1857	420311.9	3734569.38	2.12E-08	8.95E-08	3.93E-11	0.00E+00	1.11E-07	2.91E-09	1.22E-08	5.85E-12	0.00E+00	1.51E-08	1.78E-09	5.62E-09	1.36E-12	0.00E+00	7.41E-09
1858	420302.03	3734533.76	2.07E-08	8.76E-08	3.84E-11	0.00E+00	1.08E-07	2.84E-09	1.20E-08	5.72E-12	0.00E+00	1.48E-08	1.74E-09	5.50E-09	1.33E-12	0.00E+00	7.25E-09
1859	420299.56	3734524.86	2.06E-08	8.70E-08	3.82E-11	0.00E+00	1.08E-07	2.82E-09	1.19E-08	5.69E-12	0.00E+00	1.47E-08	1.73E-09	5.47E-09	1.32E-12	0.00E+00	7.20E-09
1860	420274.87	3734435.81	1.92E-08	8.10E-08	3.55E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.29E-12	0.00E+00	1.37E-08	1.61E-09	5.09E-09	1.23E-12	0.00E+00	6.70E-09
1861	420272.4	3734426.9	1.90E-08	8.03E-08	3.53E-11	0.00E+00	9.94E-08	2.61E-09	1.10E-08	5.25E-12	0.00E+00	1.36E-08	1.60E-09	5.05E-09	1.22E-12	0.00E+00	6.65E-09
1862	420269.93	3734418	1.89E-08	7.98E-08	3.50E-11	0.00E+00	9.87E-08	2.59E-09	1.09E-08	5.21E-12	0.00E+00	1.35E-08	1.59E-09	5.01E-09	1.21E-12	0.00E+00	6.61E-09
1863	420267.46	3734409.09	1.88E-08	7.92E-08	3.48E-11	0.00E+00	9.80E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
1864	420454.27	3734724.21	3.58E-08	1.51E-07	6.63E-11	0.00E+00	1.87E-07	4.90E-09	2.07E-08	9.87E-12	0.00E+00	2.56E-08	3.01E-09	9.50E-09	2.29E-12	0.00E+00	1.25E-08
1865	420462.61	3734729.05	3.69E-08	1.56E-07	6.84E-11	0.00E+00	1.93E-07	5.06E-09	2.13E-08	1.02E-11	0.00E+00	2.64E-08	3.11E-09	9.80E-09	2.37E-12	0.00E+00	1.29E-08
1866	420470.95	3734733.89	3.80E-08	1.61E-07	7.05E-11	0.00E+00	1.99E-07	5.22E-09	2.20E-08	1.05E-11	0.00E+00	2.72E-08	3.20E-09	1.01E-08	2.44E-12	0.00E+00	1.33E-08
1867	420427.59	3734752.22	2.82E-08	1.19E-07	5.23E-11	0.00E+00	1.48E-07	3.87E-09	1.63E-08	7.79E-12	0.00E+00	2.02E-08	2.38E-09	7.50E-09	1.81E-12	0.00E+00	9.87E-09
1868	420407.78	3734732.47	2.70E-08	1.14E-07	5.00E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.44E-12	0.00E+00	1.93E-08	2.27E-09	7.16E-09	1.73E-12	0.00E+00	9.43E-09
1869	420401.17	3734725.89	2.65E-08	1.12E-07	4.91E-11	0.00E+00	1.38E-07	3.63E-09	1.53E-08	7.31E-12	0.00E+00	1.89E-08	2.23E-09	7.03E-09	1.70E-12	0.00E+00	9.26E-09
1870	420394.57	3734719.3	2.60E-08	1.10E-07	4.82E-11	0.00E+00	1.36E-07	3.57E-09	1.50E-08	7.18E-12	0.00E+00	1.86E-08	2.19E-09	6.90E-09	1.67E-12	0.00E+00	9.09E-09
1871	420387.97	3734712.72	2.55E-08	1.08E-07	4.72E-11	0.00E+00	1.33E-07	3.49E-09	1.47E-08	7.04E-12	0.00E+00	1.82E-08	2.14E-09	6.77E-09	1.63E-12	0.00E+00	8.91E-09
1872	420381.36	3734706.13	2.50E-08	1.05E-07	4.63E-11	0.00E+00	1.30E-07	3.42E-09	1.44E-08	6.89E-12	0.00E+00	1.78E-08	2.10E-09	6.63E-09	1.60E-12	0.00E+00	8.73E-09
1873	420374.76	3734699.55	2.44E-08	1.03E-07	4.53E-11	0.00E+00	1.28E-07	3.35E-09	1.41E-08	6.74E-12	0.00E+00	1.75E-08	2.06E-09	6.48E-09	1.56E-12	0.00E+00	8.54E-09
1874	420368.15	3734692.96	2.39E-08	1.01E-07	4.43E-11	0.00E+00	1.25E-07	3.28E-09	1.38E-08	6.59E-12	0.00E+00	1.71E-08	2.01E-09	6.34E-09	1.53E-12	0.00E+00	8.35E-09
1875	420361.55	3734686.38	2.34E-08	9.86E-08	4.33E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.45E-12	0.00E+00	1.67E-08	1.97E-09	6.20E-09	1.50E-12	0.00E+00	8.17E-09
1876	420354.95	3734679.8	2.28E-08	9.64E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.30E-12	0.00E+00	1.63E-08	1.92E-09	6.06E-09	1.46E-12	0.00E+00	7.98E-09
1877	420348.34	3734673.21	2.23E-08	9.41E-08	4.13E-11	0.00E+00	1.16E-07	3.06E-09	1.29E-08	6.15E-12	0.00E+00	1.59E-08	1.88E-09	5.92E-09	1.43E-12	0.00E+00	7.79E-09
1878	420341.74	3734666.63	2.18E-08	9.20E-08	4.04E-11	0.00E+00	1.14E-07	2.99E-09	1.26E-08	6.01E-12	0.00E+00	1.56E-08	1.83E-09	5.78E-09	1.40E-12	0.00E+00	7.61E-09
1879	420335.13	3734660.04	2.13E-08	8.98E-08	3.94E-11	0.00E+00	1.11E-07	2.91E-09	1.23E-08	5.87E-12	0.00E+00	1.52E-08	1.79E-09	5.64E-09	1.36E-12	0.00E+00	7.43E-09
1880	420328.53	3734653.46	2.08E-08	8.76E-08	3.85E-11	0.00E+00	1.08E-07	2.84E-09	1.20E-08	5.73E-12	0.00E+00	1.48E-08	1.75E-09	5.51E-09	1.33E-12	0.00E+00	7.25E-09
1881	420321.93	3734646.87	2.02E-08	8.55E-08	3.75E-11	0.00E+00	1.06E-07	2.78E-09	1.17E-08	5.59E-12	0.00E+00	1.45E-08	1.70E-09	5.37E-09	1.30E-12	0.00E+00	7.08E-09
1882	420315.32	3734640.29	1.97E-08	8.34E-08	3.66E-11	0.00E+00	1.03E-07	2.71E-09	1.14E-08	5.45E-12	0.00E+00	1.41E-08	1.66E-09	5.24E-09	1.27E-12	0.00E+00	6.90E-09
1883	420288.91	3734613.95	1.78E-08	7.51E-08	3.30E-11	0.00E+00	9.30E-08	2.44E-09	1.03E-08	4.91E-12	0.00E+00	1.27E-08	1.50E-09	4.72E-09	1.14E-12	0.00E+00	6.22E-09
1884	420279.81	3734598.38	1.73E-08	7.29E-08	3.20E-11	0.00E+00	9.02E-08	2.37E-09	9.97E-09	4.77E-12	0.00E+00	1.23E-08	1.45E-09	4.58E-09	1.11E-12	0.00E+00	6.04E-09
1885	420277.32	3734589.4	1.72E-08	7.27E-08	3.19E-11	0.00E+00	8.99E-08	2.36E-09	9.94E-09	4.75E-12	0.00E+00	1.23E-08	1.45E-09	4.57E-09	1.10E-12	0.00E+00	6.02E-09
1886	420274.83	3734580.41	1.71E-08	7.24E-08	3.18E-11	0.00E+00	8.96E-08	2.35E-09	9.90E-09	4.73E-12	0.00E+00	1.23E-08	1.44E-09	4.55E-09	1.10E-12	0.00E+00	5.99E-09
1887	420272.34	3734571.42	1.71E-08	7.21E-08	3.16E-11	0.00E+00	8.92E-08	2.34E-09	9.86E-09	4.71E-12	0.00E+00	1.22E-08	1.44E-09	4.53E-09	1.09E-12	0.00E+00	5.97E-09
1888	420269.84	3734562.44	1.70E-08	7.17E-08	3.15E-11	0.00E+00	8.88E-08	2.33E-09	9.81E-09	4.69E-12	0.00E+00	1.21E-08	1.43E-09	4.51E-09	1.09E-12	0.00E+00	5.94E-09
1889	420262.37	3734535.48	1.67E-08	7.06E-08	3.10E-11	0.00E+00	8.73E-08	2.29E-09	9.65E-09	4.61E-12	0.00E+00	1.19E-08	1.41E-09	4.44E-09	1.07E-12	0.00E+00	5.84E-09
1890	420259.88	3734526.49	1.66E-08	7.02E-08	3.08E-11	0.00E+00	8.68E-08	2.28E-09	9.60E-09	4.59E-12	0.00E+00	1.19E-08	1.40E-09	4.41E-09	1.06E-12	0.00E+00	5.81E-09
1891	420257.39	3734517.5	1.65E-08	6.98E-08	3.06E-11	0.00E+00	8.63E-08	2.26E-09	9.54E-09	4.56E-12	0.00E+00	1.18E-08	1.39E-09	4.38E-09	1.06E-12	0.00E+00	5.78E-09
1892	420254.89	3734508.52	1.64E-08	6.93E-08	3.04E-11	0.00E+00	8.58E-08	2.25E-09	9.48E-09	4.53E-12	0.00E+00	1.17E-08	1.38E-09	4.36E-09	1.05E-12	0.00E+00	5.74E-09
1893	420252.4	3734499.53	1.63E-08	6.89E-08	3.02E-11	0.00E+00	8.52E-08	2.24E-09	9.42E-09	4.50E-12	0.00E+00	1.17E-08	1.37E-09	4.33E-09	1.05E-12	0.00E+00	5.70E-09
1894	420249.91	3734490.55	1.62E-08	6.85E-08	3.00E-11	0.00E+00	8.47E-08	2.22E-09	9.36E-09	4.47E-12	0.00E+00	1.16E-08	1.36E-09	4.30E-09	1.04E-12	0.00E+00	5.67E-09
1895	420247.42	3734481.56	1.61E-08	6.80E-08	2.99E-11	0.00E+00	8.42E-08	2.21E-09	9.30E-09	4.45E-12	0.00E+00	1.15E-08	1.36E-09	4.28E-09	1.03E-12	0.00E+00	5.63E-09
1896	420244.93	3734472.57	1.60E-08	6.76E-08	2.97E-11	0.00E+00	8.36E-08	2.19E-09	9.24E-09	4.42E-12	0.00E+00	1.14E-08	1.35E-09	4.25E-09	1.03E-12	0.00E+00	5.60E-09
1897	420234.96	3734436.63	1.56E-08	6.59E-08	2.89E-11	0.00E+00	8.15E-08	2.14E-09	9.01E-09	4.31E-12	0.00E+00	1.12E-08	1.31E-09	4.14E-09	1.00E-12	0.00E+00	5.46E-09
1898	420232.47	3734427.64	1.55E-08	6.55E-08	2.87E-11	0.00E+00	8.10E-08	2.13E-09	8.95E-09	4.28E-12	0.00E+00	1.11E-08	1.30E-09	4.12E-09	9.93E-13	0.00E+00	5.42E-09
1899	420229.98	3734418.65	1.54E-08	6.51E-08	2.85E-11	0.00E+00	8.05E-08	2.11E-09	8.90E-09	4.25E-12	0.00E+00	1.10E-08	1.30E-09	4.09E-09	9.87E-13	0.00E+00	5.39E-09
1900	420227.48	3734409.67	1.53E-08	6.46E-08	2.84E-11	0.00E+00	8.00E-08	2.10E-09	8.84E-09	4.22E-12	0.00E+00	1.09E-08	1.29E-09	4.06E-09	9.81E-13	0.00E+00	5.35E-09
1901	420434.19	3734758.81	2.86E-08	1.21E-07	5.30E-11	0.00E+00	1.50E-07	3.92E-09	1.65E-08	7.90E-12	0.00E+00	2.05E-08	2.41E-09	7.59E-09	1.83E-12	0.00E+00	1.00E-08
1902	420442.54	3734763.65	2.94E-08	1.24E-07	5.44E-11	0.00E+00	1.54E-07	4.03E-09	1.70E-08	8.11E-12	0.00E+00	2.10E-08	2.47E-09	7.80E-09	1.88E-12	0.00E+00	1.03E-08
1903	420450.88	3734768.49	3.01E-08	1.27E-07	5.58E-11	0.00E+00	1.57E-07	4.13E-09	1.74E-08	8.32E-12	0.00E+00	2.15E-08	2.54E-09	8.00E-09	1.93E-12	0.00E+00	1.05E-08
1904	420459.22	3734773.33	3.09E-08	1.30E-07	5.72E-11	0.00E+00	1.61E-07	4.23E-09	1.78E-08	8.52E-12	0.00E+00	2.21E-08	2.60E-09	8.19E-09	1.98E-12	0.00E+00	1.08E-08
1905	420467.56	3734778.17	3.16E-08	1.33E-07	5.85E-11	0.00E+00	1.65E-07	4.33E-09	1.82E-08	8.72E-12	0.00E+00	2.26E-08	2.66E-09	8.39E-09	2.02E-12	0.00E+00	1.10E-08
1906	420407.47	3734786.77	2.30E-08	9.71E-08	4.26E-11	0.00E+00	1.20E-07	3.15E-09	1.33E-08	6.35E-12	0.00E+00	1.64E-08	1.94E-09	6.10E-09	1.47E-12	0.00E+00	8.04E-09
1907	420387.5	3734766.87	2.22E-08	9.36E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.12E-12	0.00E+00	1.59E-08	1.87E-09	5.88E-09	1.42E-12	0.00E+00	7.75E-09
1908	420380.85	3734760.23	2.18E-08	9.22E-08	4.05E-11	0.00E+00	1.14E-07	2.99E-09	1.26E-08	6.03E-12	0.00E+00	1.56E-08	1.84E-09	5.80E-09	1.40E-12	0.00E+00	7.64E-09
1909	420374.2	3734753.6	2.15E-08	9.07E-08	3.98E-11	0.00E+00	1.12E-07	2.95E-09	1.24E-08	5.93E-12	0.00E+00	1.54E-08	1.81E-09	5.70E-09	1.38E-12	0.00E+00	7.51E-09
1910	420367.54	3734746.97	2.11E-08	8.92E-08	3.91E-11	0.00E+00	1.10E-07	2.90E-09	1.22E-08	5.83E-12	0.00E+00	1.51E-08	1.78E-09	5.61E-09	1.35E-12	0.00E+00	7.38E-09
1911	420360.89	3734740.33	2.07E-08	8.76E-08	3.84E-11	0.00E+00	1.08E-07	2.84E-09	1.20E-08	5.73E-12	0.00E+00	1.48E-08	1.75E-09	5.51E-09	1.33E-12	0.00E+00	7.25E-09
1912	420354.23	3734733.7	2.04E-08	8.59E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.18E-08	5.62E-12	0.00E+00	1.45E-08	1.71E-09	5.40E-09	1.30E-12	0.00E+00	7.12E-09
1913	420347.58	3734727.06	2.00E-08	8.43E-08	3.70E-11	0.00E+00	1.04E-07	2.74E-09	1.15E-08	5.51E-12	0.00E+00	1.43E-08	1.68E-09	5.30E-09	1.28E-12	0.00E+00	6.98E-09
1914	420340.92	3734720.43	1.96E-08	8.26E-08	3.62E-11	0.00E+00	1.02E-07	2.68E-09	1.13E-08	5.40E-12	0.00E+00	1.40E-08	1.65E-09	5.19E-09	1.25E-12	0.00E+00	6.84E-09
1915	420334.27	3734713.79	1.92E-08	8.09E-08	3.55E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.29E-12	0.00E+00	1.37E-08	1.61E-09	5.08E-09	1.23E-12	0.00E+00	6.70E-09
1916	420327.62	3734707.16	1.88E-08	7.92E-08	3.48E-11	0.00E+00	9.80E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
1917	420320.96	3734700.52	1.84E-08	7.76E-08	3.40E-11	0.00E+00	9.60E-08	2.52E-09	1.06E-08	5.07E-12	0.00E+00	1.31E-08	1.55E-09	4.88E-09	1.18E-12	0.00E+00	6.42E-09
1918	420314.31	3734693.89	1.80E-08	7.60E-08	3.33E-11	0.00E+00	9.40E-08	2.47E-09	1.04E-08	4.96E-12	0.00E+00	1.29E-08	1.51E-09	4.77E-09	1.15E-12	0.00E+00	6.29E-09
1919	420294.34	3734673.99	1.69E-08	7.12E-08	3.12E-11	0.00E+00	8.80E-08	2.31E-09	9.73E-09	4.65E-12	0.00E+00	1.20E-08	1.42E-09	4.47E-09	1.08E-12	0.00E+00	5.89E-09
1920	420287.69	3734667.35	1.65E-08	6.96E-08	3.05E-11	0.00E+00	8.61E-08	2.26E-09	9.52E-09	4.55E-12	0.00E+00	1.18E-08	1.39E-09	4.37E-09	1.06E-12	0.00E+00	5.76E-09
1921	420281.04	3734660.72	1.61E-08	6.80E-08	2.99E-11	0.00E+00	8.42E-08	2.21E-09	9.30E-09	4.45E-12	0.00E+00	1.15E-08	1.36E-09	4.28E-09	1.03E-12	0.00E+00	5.63E-09
1922	420274.38	3734654.08	1.57E-08	6.65E-08	2.92E-11	0.00E+00	8.23E-08	2.16E-09	9.09E-09	4.35E-12	0.00E+00	1.13E-08	1.32E-09	4.18E-09	1.01E-12	0.00E+00	5.51E-09
1923	420267.73	3734647.45	1.54E-08	6.50E-08	2.85E-11	0.00E+00	8.04E-08	2.11E-09	8.88E-09	4.25E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.86E-13	0.00E+00	5.38E-09
1924	420261.07	3734640.81	1.50E-08	6.34E-08	2.78E-11	0.00E+00	7.85E-08	2.06E-09	8.67E-09	4.14E-12	0.00E+00	1.07E-08	1.26E-09	3.99E-09	9.62E-13	0.00E+00	5.25E-09
1925	420254.42	3734634.18	1.47E-08	6.19E-08	2.72E-11	0.00E+00	7.66E-08	2.01E-09	8.46E-09	4.05E-12	0.00E+00	1.05E-08	1.23E-09	3.89E-09	9.39E-13	0.00E+00	5.12E-09
1926	420245.25	3734618.49	1.43E-08	6.02E-08	2.64E-11	0.00E+00	7.45E-08	1.95E-09	8.23E-09	3.94E-12	0.00E+00	1.02E-08	1.20E-09	3.78E-09	9.14E-13	0.00E+00	4.99E-09
1927	420242.74	3734609.44	1.42E-08	6.00E-08	2.63E-11	0.00E+00	7.42E-08	1.95E-09	8.20E-09	3.92E-12	0.00E+00	1.02E-08	1.20E-09	3.77E-09	9.10E-13	0.00E+00	4.97E-09
1928	420240.23	3734600.38	1.42E-08	5.98E-08	2.62E-11	0.00E+00	7.40E-08	1.94E-09	8.18E-09	3.91E-12	0.00E+00	1.01E-08	1.19E-09	3.76E-09	9.07E-13	0.00E+00	4.95E-09

1929	420237.72	3734591.33	1.41E-08	5.96E-08	2.62E-11	0.00E+00	7.37E-08	1.94E-09	8.15E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.04E-13	0.00E+00	4.93E-09
1930	420235.21	3734582.27	1.41E-08	5.94E-08	2.61E-11	0.00E+00	7.35E-08	1.93E-09	8.12E-09	3.88E-12	0.00E+00	1.01E-08	1.18E-09	3.73E-09	9.01E-13	0.00E+00	4.92E-09
1931	420232.7	3734573.22	1.40E-08	5.91E-08	2.59E-11	0.00E+00	7.31E-08	1.92E-09	8.08E-09	3.86E-12	0.00E+00	1.00E-08	1.18E-09	3.72E-09	8.97E-13	0.00E+00	4.89E-09
1932	420230.19	3734564.16	1.39E-08	5.88E-08	2.58E-11	0.00E+00	7.28E-08	1.91E-09	8.05E-09	3.85E-12	0.00E+00	9.96E-09	1.17E-09	3.70E-09	8.93E-13	0.00E+00	4.87E-09
1933	420222.66	3734537	1.37E-08	5.79E-08	2.54E-11	0.00E+00	7.17E-08	1.88E-09	7.92E-09	3.79E-12	0.00E+00	9.81E-09	1.15E-09	3.64E-09	8.79E-13	0.00E+00	4.80E-09
1934	420220.15	3734527.94	1.36E-08	5.76E-08	2.53E-11	0.00E+00	7.13E-08	1.87E-09	7.88E-09	3.77E-12	0.00E+00	9.75E-09	1.15E-09	3.62E-09	8.74E-13	0.00E+00	4.77E-09
1935	420217.63	3734518.89	1.36E-08	5.73E-08	2.51E-11	0.00E+00	7.09E-08	1.86E-09	7.84E-09	3.74E-12	0.00E+00	9.70E-09	1.14E-09	3.60E-09	8.69E-13	0.00E+00	4.74E-09
1936	420215.12	3734509.83	1.35E-08	5.70E-08	2.50E-11	0.00E+00	7.05E-08	1.85E-09	7.79E-09	3.72E-12	0.00E+00	9.65E-09	1.14E-09	3.58E-09	8.65E-13	0.00E+00	4.72E-09
1937	420212.61	3734500.78	1.34E-08	5.67E-08	2.49E-11	0.00E+00	7.01E-08	1.84E-09	7.75E-09	3.70E-12	0.00E+00	9.60E-09	1.13E-09	3.56E-09	8.60E-13	0.00E+00	4.69E-09
1938	420210.1	3734491.72	1.34E-08	5.64E-08	2.47E-11	0.00E+00	6.98E-08	1.83E-09	7.71E-09	3.68E-12	0.00E+00	9.54E-09	1.12E-09	3.54E-09	8.55E-13	0.00E+00	4.67E-09
1939	420207.59	3734482.67	1.33E-08	5.61E-08	2.46E-11	0.00E+00	6.94E-08	1.82E-09	7.67E-09	3.67E-12	0.00E+00	9.50E-09	1.12E-09	3.53E-09	8.51E-13	0.00E+00	4.65E-09
1940	420205.08	3734473.61	1.32E-08	5.58E-08	2.45E-11	0.00E+00	6.91E-08	1.81E-09	7.63E-09	3.65E-12	0.00E+00	9.45E-09	1.11E-09	3.51E-09	8.47E-13	0.00E+00	4.62E-09
1941	420202.57	3734464.56	1.32E-08	5.55E-08	2.44E-11	0.00E+00	6.87E-08	1.80E-09	7.60E-09	3.63E-12	0.00E+00	9.40E-09	1.11E-09	3.49E-09	8.43E-13	0.00E+00	4.60E-09
1942	420195.04	3734437.39	1.29E-08	5.46E-08	2.40E-11	0.00E+00	6.76E-08	1.77E-09	7.47E-09	3.57E-12	0.00E+00	9.24E-09	1.09E-09	3.43E-09	8.29E-13	0.00E+00	4.52E-09
1943	420192.53	3734428.34	1.29E-08	5.43E-08	2.38E-11	0.00E+00	6.72E-08	1.76E-09	7.43E-09	3.55E-12	0.00E+00	9.19E-09	1.08E-09	3.41E-09	8.24E-13	0.00E+00	4.50E-09
1944	420190.02	3734419.28	1.28E-08	5.40E-08	2.37E-11	0.00E+00	6.68E-08	1.75E-09	7.39E-09	3.53E-12	0.00E+00	9.14E-09	1.08E-09	3.39E-09	8.19E-13	0.00E+00	4.47E-09
1945	420187.51	3734410.23	1.27E-08	5.37E-08	2.36E-11	0.00E+00	6.64E-08	1.74E-09	7.34E-09	3.51E-12	0.00E+00	9.09E-09	1.07E-09	3.37E-09	8.15E-13	0.00E+00	4.44E-09
1946	420414.12	3734793.41	2.32E-08	9.81E-08	4.31E-11	0.00E+00	1.21E-07	3.19E-09	1.34E-08	6.41E-12	0.00E+00	1.66E-08	1.96E-09	6.17E-09	1.49E-12	0.00E+00	8.13E-09
1947	420422.46	3734798.25	2.38E-08	1.00E-07	4.41E-11	0.00E+00	1.24E-07	3.26E-09	1.37E-08	6.56E-12	0.00E+00	1.70E-08	2.00E-09	6.31E-09	1.52E-12	0.00E+00	8.31E-09
1948	420430.81	3734803.09	2.43E-08	1.03E-07	4.50E-11	0.00E+00	1.27E-07	3.33E-09	1.40E-08	6.71E-12	0.00E+00	1.74E-08	2.05E-09	6.45E-09	1.56E-12	0.00E+00	8.50E-09
1949	420439.15	3734807.93	2.48E-08	1.05E-07	4.60E-11	0.00E+00	1.30E-07	3.40E-09	1.43E-08	6.85E-12	0.00E+00	1.77E-08	2.09E-09	6.59E-09	1.59E-12	0.00E+00	8.68E-09
1950	420447.49	3734812.77	2.53E-08	1.07E-07	4.69E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.99E-12	0.00E+00	1.81E-08	2.13E-09	6.72E-09	1.62E-12	0.00E+00	8.85E-09
1951	420367.26	3734801.3	1.84E-08	7.79E-08	3.42E-11	0.00E+00	9.63E-08	2.53E-09	1.06E-08	5.09E-12	0.00E+00	1.32E-08	1.55E-09	4.89E-09	1.18E-12	0.00E+00	6.45E-09
1952	420360.56	3734794.62	1.82E-08	7.69E-08	3.37E-11	0.00E+00	9.52E-08	2.50E-09	1.05E-08	5.03E-12	0.00E+00	1.30E-08	1.53E-09	4.83E-09	1.17E-12	0.00E+00	6.37E-09
1953	420353.87	3734787.94	1.80E-08	7.59E-08	3.33E-11	0.00E+00	9.39E-08	2.46E-09	1.04E-08	4.96E-12	0.00E+00	1.28E-08	1.51E-09	4.77E-09	1.15E-12	0.00E+00	6.28E-09
1954	420313.68	3734747.88	1.63E-08	6.87E-08	3.01E-11	0.00E+00	8.50E-08	2.23E-09	9.39E-09	4.49E-12	0.00E+00	1.16E-08	1.37E-09	4.32E-09	1.04E-12	0.00E+00	5.69E-09
1955	420293.59	3734727.85	1.54E-08	6.49E-08	2.85E-11	0.00E+00	8.04E-08	2.11E-09	8.88E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.85E-13	0.00E+00	5.38E-09
1956	420286.89	3734721.17	1.51E-08	6.37E-08	2.80E-11	0.00E+00	7.88E-08	2.07E-09	8.71E-09	4.16E-12	0.00E+00	1.08E-08	1.27E-09	4.00E-09	9.67E-13	0.00E+00	5.27E-09
1957	420280.2	3734714.49	1.48E-08	6.25E-08	2.74E-11	0.00E+00	7.73E-08	2.03E-09	8.54E-09	4.08E-12	0.00E+00	1.06E-08	1.24E-09	3.93E-09	9.48E-13	0.00E+00	5.17E-09
1958	420273.5	3734707.82	1.45E-08	6.13E-08	2.69E-11	0.00E+00	7.58E-08	1.99E-09	8.38E-09	4.00E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.29E-13	0.00E+00	5.07E-09
1959	420266.8	3734701.14	1.42E-08	6.00E-08	2.63E-11	0.00E+00	7.43E-08	1.95E-09	8.21E-09	3.92E-12	0.00E+00	1.02E-08	1.20E-09	3.77E-09	9.11E-13	0.00E+00	4.97E-09
1960	420260.11	3734694.46	1.39E-08	5.88E-08	2.58E-11	0.00E+00	7.28E-08	1.91E-09	8.05E-09	3.85E-12	0.00E+00	9.96E-09	1.17E-09	3.70E-09	8.93E-13	0.00E+00	4.87E-09
1961	420253.41	3734687.78	1.37E-08	5.76E-08	2.53E-11	0.00E+00	7.13E-08	1.87E-09	7.88E-09	3.77E-12	0.00E+00	9.76E-09	1.15E-09	3.62E-09	8.75E-13	0.00E+00	4.77E-09
1962	420246.71	3734681.11	1.34E-08	5.65E-08	2.48E-11	0.00E+00	6.99E-08	1.83E-09	7.72E-09	3.69E-12	0.00E+00	9.56E-09	1.13E-09	3.55E-09	8.57E-13	0.00E+00	4.68E-09
1963	420240.01	3734674.43	1.31E-08	5.53E-08	2.43E-11	0.00E+00	6.84E-08	1.80E-09	7.56E-09	3.61E-12	0.00E+00	9.36E-09	1.10E-09	3.48E-09	8.39E-13	0.00E+00	4.58E-09
1964	420233.32	3734667.75	1.28E-08	5.41E-08	2.37E-11	0.00E+00	6.70E-08	1.76E-09	7.40E-09	3.54E-12	0.00E+00	9.16E-09	1.08E-09	3.40E-09	8.21E-13	0.00E+00	4.48E-09
1965	420226.62	3734661.08	1.25E-08	5.29E-08	2.32E-11	0.00E+00	6.55E-08	1.72E-09	7.24E-09	3.46E-12	0.00E+00	8.96E-09	1.05E-09	3.33E-09	8.03E-13	0.00E+00	4.38E-09
1966	420219.92	3734654.4	1.23E-08	5.18E-08	2.27E-11	0.00E+00	6.41E-08	1.68E-09	7.08E-09	3.38E-12	0.00E+00	8.76E-09	1.03E-09	3.25E-09	7.85E-13	0.00E+00	4.29E-09
1967	420200.59	3734602.16	1.18E-08	5.00E-08	2.19E-11	0.00E+00	6.18E-08	1.62E-09	6.83E-09	3.27E-12	0.00E+00	8.46E-09	9.96E-10	3.14E-09	7.58E-13	0.00E+00	4.14E-09
1968	420198.06	3734593.04	1.18E-08	4.98E-08	2.18E-11	0.00E+00	6.16E-08	1.62E-09	6.81E-09	3.25E-12	0.00E+00	8.42E-09	9.92E-10	3.13E-09	7.55E-13	0.00E+00	4.12E-09
1969	420195.54	3734583.93	1.17E-08	4.96E-08	2.18E-11	0.00E+00	6.13E-08	1.61E-09	6.78E-09	3.24E-12	0.00E+00	8.39E-09	9.88E-10	3.12E-09	7.52E-13	0.00E+00	4.10E-09
1970	420193.01	3734574.82	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.75E-09	3.22E-12	0.00E+00	8.35E-09	9.83E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
1971	420190.48	3734565.7	1.16E-08	4.91E-08	2.15E-11	0.00E+00	6.08E-08	1.59E-09	6.71E-09	3.21E-12	0.00E+00	8.31E-09	9.78E-10	3.09E-09	7.45E-13	0.00E+00	4.07E-09
1972	420182.9	3734538.36	1.15E-08	4.84E-08	2.12E-11	0.00E+00	5.99E-08	1.57E-09	6.62E-09	3.16E-12	0.00E+00	8.19E-09	9.64E-10	3.04E-09	7.34E-13	0.00E+00	4.01E-09
1973	420180.38	3734529.25	1.14E-08	4.82E-08	2.11E-11	0.00E+00	5.96E-08	1.56E-09	6.59E-09	3.15E-12	0.00E+00	8.16E-09	9.60E-10	3.03E-09	7.31E-13	0.00E+00	3.99E-09
1974	420177.85	3734520.14	1.14E-08	4.80E-08	2.10E-11	0.00E+00	5.93E-08	1.56E-09	6.56E-09	3.13E-12	0.00E+00	8.12E-09	9.56E-10	3.01E-09	7.28E-13	0.00E+00	3.97E-09
1975	420175.32	3734511.02	1.13E-08	4.77E-08	2.09E-11	0.00E+00	5.91E-08	1.55E-09	6.53E-09	3.12E-12	0.00E+00	8.08E-09	9.51E-10	3.00E-09	7.24E-13	0.00E+00	3.95E-09
1976	420172.79	3734501.91	1.13E-08	4.75E-08	2.08E-11	0.00E+00	5.88E-08	1.54E-09	6.50E-09	3.10E-12	0.00E+00	8.04E-09	9.47E-10	2.99E-09	7.21E-13	0.00E+00	3.93E-09
1977	420170.27	3734492.8	1.12E-08	4.73E-08	2.08E-11	0.00E+00	5.85E-08	1.54E-09	6.47E-09	3.09E-12	0.00E+00	8.00E-09	9.42E-10	2.97E-09	7.17E-13	0.00E+00	3.92E-09
1978	420167.74	3734483.68	1.11E-08	4.71E-08	2.07E-11	0.00E+00	5.82E-08	1.53E-09	6.44E-09	3.08E-12	0.00E+00	7.97E-09	9.38E-10	2.96E-09	7.14E-13	0.00E+00	3.90E-09
1979	420165.21	3734474.57	1.11E-08	4.69E-08	2.06E-11	0.00E+00	5.80E-08	1.52E-09	6.41E-09	3.06E-12	0.00E+00	7.93E-09	9.34E-10	2.94E-09	7.11E-13	0.00E+00	3.88E-09
1980	420155.11	3734438.12	1.09E-08	4.60E-08	2.02E-11	0.00E+00	5.69E-08	1.49E-09	6.29E-09	3.00E-12	0.00E+00	7.78E-09	9.16E-10	2.89E-09	6.97E-13	0.00E+00	3.81E-09
1981	420152.58	3734429	1.08E-08	4.57E-08	2.01E-11	0.00E+00	5.66E-08	1.48E-09	6.25E-09	2.99E-12	0.00E+00	7.74E-09	9.11E-10	2.87E-09	6.94E-13	0.00E+00	3.79E-09
1982	420150.05	3734419.89	1.08E-08	4.55E-08	2.00E-11	0.00E+00	5.63E-08	1.48E-09	6.22E-09	2.97E-12	0.00E+00	7.70E-09	9.07E-10	2.86E-09	6.90E-13	0.00E+00	3.77E-09
1983	420147.52	3734410.78	1.07E-08	4.53E-08	1.99E-11	0.00E+00	5.60E-08	1.47E-09	6.19E-09	2.96E-12	0.00E+00	7.66E-09	9.02E-10	2.85E-09	6.87E-13	0.00E+00	3.75E-09
1984	420394.05	3734828.01	1.92E-08	8.10E-08	3.56E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.30E-12	0.00E+00	1.37E-08	1.61E-09	5.09E-09	1.23E-12	0.00E+00	6.71E-09
1985	420402.39	3734832.85	1.96E-08	8.27E-08	3.63E-11	0.00E+00	1.02E-07	2.68E-09	1.13E-08	5.40E-12	0.00E+00	1.40E-08	1.65E-09	5.19E-09	1.25E-12	0.00E+00	6.84E-09
1986	420410.73	3734837.69	1.99E-08	8.42E-08	3.70E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.50E-12	0.00E+00	1.43E-08	1.68E-09	5.29E-09	1.28E-12	0.00E+00	6.97E-09
1987	420419.08	3734842.53	2.03E-08	8.58E-08	3.76E-11	0.00E+00	1.06E-07	2.78E-09	1.17E-08	5.60E-12	0.00E+00	1.45E-08	1.71E-09	5.39E-09	1.30E-12	0.00E+00	7.10E-09
1988	420427.42	3734847.37	2.07E-08	8.72E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.70E-12	0.00E+00	1.48E-08	1.74E-09	5.48E-09	1.32E-12	0.00E+00	7.22E-09
1989	420353.77	3734842.46	1.57E-08	6.62E-08	2.90E-11	0.00E+00	8.19E-08	2.15E-09	9.05E-09	4.32E-12	0.00E+00	1.12E-08	1.32E-09	4.16E-09	1.00E-12	0.00E+00	5.48E-09
1990	420347.04	3734835.75	1.55E-08	6.56E-08	2.88E-11	0.00E+00	8.11E-08	2.13E-09	8.97E-09	4.29E-12	0.00E+00	1.11E-08	1.31E-09	4.12E-09	9.95E-13	0.00E+00	5.43E-09
1991	420340.31	3734829.03	1.54E-08	6.49E-08	2.85E-11	0.00E+00	8.02E-08	2.11E-09	8.87E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.84E-13	0.00E+00	5.37E-09
1992	420333.57	3734822.32	1.52E-08	6.40E-08	2.81E-11	0.00E+00	7.92E-08	2.08E-09	8.76E-09	4.18E-12	0.00E+00	1.08E-08	1.28E-09	4.02E-09	9.71E-13	0.00E+00	5.30E-09
1993	420326.84	3734815.61	1.50E-08	6.32E-08	2.78E-11	0.00E+00	7.83E-08	2.05E-09	8.65E-09	4.13E-12	0.00E+00	1.07E-08	1.26E-09	3.97E-09	9.60E-13	0.00E+00	5.24E-09
1994	420320.1	3734808.89	1.48E-08	6.25E-08	2.74E-11	0.00E+00	7.73E-08	2.03E-09	8.54E-09	4.08E-12	0.00E+00	1.06E-08	1.24E-09	3.93E-09	9.48E-13	0.00E+00	5.17E-09
1995	420313.37	3734802.18	1.46E-08	6.16E-08	2.70E-11	0.00E+00	7.62E-08	2.00E-09	8.43E-09	4.03E-12	0.00E+00	1.04E-08	1.23E-09	3.87E-09	9.35E-13	0.00E+00	5.10E-09
1996	420306.63	3734795.46	1.44E-08	6.07E-08	2.66E-11	0.00E+00	7.51E-08	1.97E-09	8.30E-09	3.97E-12	0.00E+00	1.03E-08	1.21E-09	3.81E-09	9.21E-13	0.00E+00	5.02E-09
1997	420299.9	3734788.75	1.41E-08	5.96E-08	2.62E-11	0.00E+00	7.38E-08	1.94E-09	8.15E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.05E-13	0.00E+00	4.94E-09
1998	420293.17	3734782.04	1.39E-08	5.87E-08	2.58E-11	0.00E+00	7.26E-08	1.91E-09	8.03E-09	3.84E-12	0.00E+00	9.94E-09	1.17E-09	3.69E-09	8.90E-13	0.00E+00	4.86E-09
1999	420286.43	3734775.32	1.37E-08	5.77E-08	2.53E-11	0.00E+00	7.14E-08	1.87E-09	7.89E-09	3.77E-12	0.00E+00	9.77E-09	1.15E-09	3.63E-09	8.76E-13	0.00E+00	4.78E-09
2000	420266.23	3734755.18	1.30E-08	5.50E-08	2.41E-11	0.00E+00	6.81E-08	1.79E-09	7.52E-09	3.60E-12	0.00E+00	9.31E-09	1.10E-09	3.46E-09	8.35E-13	0.00E+00	4.56E-09
2001	420239.29	3734728.32	1.21E-08	5.13E-08	2.25E-11	0.00E+00	6.34E-08	1.66E-09	7.01E-09	3.35E-12	0.00E+00	8.68E-09	1.02E-09	3.22E-09	7.78E-13	0.00E+00	4.24E-09
2002	420232.56	3734721.61	1.19E-08	5.03E-08	2.21E-11	0.00E+00	6.23E-08	1.63E-09	6.88E-09	3.29E-12	0.00E+00	8.52E-09	1.00E-09	3.16E-09	7.63E-13	0.00E+00	4.17E-09
2003	420225.83	3734714.9	1.17E-08	4.94E-08	2.17E-11	0.00E+00	6.11E-08	1.60E-09	6.75E-09	3.23E-12	0.00E+00	8.36E-09	9.84E-10	3.10E-09	7.49E-13	0.00E+00	4.09E-09
2004	420219.09	3734708.18	1.15E-08	4.85E-08	2.13E-11	0.00E+00	6.00E-08	1.57E-09	6.63E-09	3.17E-12	0.00E+00	8.20E-09	9.66E-10	3.05E-09	7.35E-13	0.00E+00	4.01E-09
2005	420198.89	3734688.04	1.08E-08	4.57E-08	2.01E-11	0.00E+00	5.66E-08	1.48E-09	6.25E-09	2.99E-12	0.00E+00	7.74E-09	9.11E-10	2.87E-09	6.94E-13	0.00E+00	3.79E-09
2006	420192.16	3734681.33	1.06E-08	4.48E-08	1.97E-11	0.00E+00	5.55E-08	1.46E-09	6.13E-09	2.93E-12	0.00E+00	7.59E-09	8.93E-10	2.82E-09	6.80E-13	0.00E+00	3.71E-09
2007	420185.42	3734674.61	1.04E-08	4.39E-08	1.93E-11	0.00E+00	5.43E-08	1.43E-09	6.01E-09	2.87E-12	0.00E+00	7.44E-09	8.75E-10	2.76E-09	6.66E-13	0.00E+00	3.64E-09
2008	420176.15	3734658.73	1.02E-08	4.30E-08	1.89E-11	0.00E+00	5.32E-08	1.40E-09	5.88E-09	2.81E-12	0.00E+00	7.28E-09	8.57E-10	2.70E-09	6.52E-13	0.00E+00	3.56E-09
2009	420173.61	3734649.57	1.02E-08	4.29E-08	1.88E-11	0.00E+00	5.31E-08	1.39E-09	5.87E-09	2.81E-12	0.00E+00	7.27E-09	8.55E-10	2.70E-09	6.51E-13	0.00E+00	3.55E-09
2010	420171.06	3734640.41	1.01E-08	4.28E-08	1.88E-11	0.00E+00	5.30E-08	1.39E-09	5.86E-09	2.80E-12	0.00E+00	7.25E-09	8.54E-10	2.69E-09	6.50E-13	0.00E+00	3.55E-09
2011	420168.52	3734631.24	1.01E-08	4.27E-08	1.88E-11	0.00E+00	5.29E-08	1.39E-09	5.84E-09	2.79E-12	0.00E+00	7.23E-09	8.51E-10	2.69E-09	6.48E-13	0.00E+00	3.54E-09
2012	420165.98	3734622.08	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.83E-09	2.79E-12	0.00E+00	7.21E-09	8.49E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
2013	420163.44	3734612.92	1.01E-08	4.25E-08	1.86E-11	0.00E+00	5.26E-08	1.38E-09	5.81E-09	2.78E-12	0.00E+00	7.19E-09	8.46E-10	2.67E-09	6.44E-13	0.00E+00	3.52E-09
2014	420160.9	3734603.75	1.00E-08	4.23E-08	1.86E-11	0.00E+00	5.24E-08	1.37E-09	5.79E-09	2.77E-12	0.00E+00	7.16E-09	8.43E-10	2.66E-09	6.42E-13	0.00E+00	3.50E-09
2015	420158.36	3734594.59	9.98E-09	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.76E-09	2.76E-12	0.00E+00	7.14E-09	8.40E-10	2.65E-09	6.40E-13	0.00E+00	3.49E-09
2016	420155.82	3734585.43	9.94E-09	4.20E-08	1.84E-11	0.00E+00	5.19E-08	1.36E-09	5.74E-09	2.74E-12	0.00E+00	7.10E-09	8.36E-10	2.64E-09	6.37E-13	0.00E+00	3.47E-09
2017	420153.28	3734576.26	9.90E-09	4.18E-08	1.83E-11	0.00E+00	5.17E-08	1.36E-09	5.71E-09	2.73E-12	0.00E+00	7.07E-09	8.33E-10	2.63E-09	6.34E-13	0.00E+00	3.46E-09
2018	420150.74	3734567.1	9.86E-09	4.16E-08	1.83E-11	0.00E+00	5.15E-08	1.35E-09	5.69E-09	2.72E-12	0.00E+00	7.04E-09	8.29E-10	2.62E-09	6.31E-13	0.00E+00	3.45E-09
2019	420140.57	3734530.44	9.67E-09	4.08E-08	1.79E-11	0.00E+00	5.05E-08	1.33E-09	5.59E-09	2.67E-12	0.00E+00	6.91E-09	8.14E-10	2.57E-09	6.20E-13	0.00E+00	3.38E-09
2020	420138.03	3734521.28	9.63E-09	4.06E-08	1.78E-11	0.00E+00	5.03E-08	1.32E-09	5.56E-09	2.66E-12	0.00E+00	6.88E-09	8.10E-10	2.55E-09	6.17E-13	0.00E+00	3.37E-09

2021	420135.49	3734512.12	9.58E-09	4.05E-08	1.78E-11	0.00E+00	5.01E-08	1.31E-09	5.53E-09	2.64E-12	0.00E+00	6.85E-09	8.06E-10	2.54E-09	6.14E-13	0.00E+00	3.35E-09
2022	420132.95	3734502.95	9.54E-09	4.03E-08	1.77E-11	0.00E+00	4.99E-08	1.31E-09	5.51E-09	2.63E-12	0.00E+00	6.82E-09	8.03E-10	2.53E-09	6.11E-13	0.00E+00	3.34E-09
2023	420130.41	3734493.79	9.50E-09	4.01E-08	1.76E-11	0.00E+00	4.96E-08	1.30E-09	5.48E-09	2.62E-12	0.00E+00	6.79E-09	7.99E-10	2.52E-09	6.08E-13	0.00E+00	3.32E-09
2024	420127.87	3734484.63	9.45E-09	3.99E-08	1.75E-11	0.00E+00	4.94E-08	1.30E-09	5.45E-09	2.61E-12	0.00E+00	6.75E-09	7.95E-10	2.51E-09	6.05E-13	0.00E+00	3.30E-09
2025	420125.33	3734475.46	9.42E-09	3.98E-08	1.75E-11	0.00E+00	4.92E-08	1.29E-09	5.44E-09	2.60E-12	0.00E+00	6.74E-09	7.93E-10	2.50E-09	6.04E-13	0.00E+00	3.29E-09
2026	420115.16	3734438.81	9.28E-09	3.92E-08	1.72E-11	0.00E+00	4.85E-08	1.27E-09	5.36E-09	2.56E-12	0.00E+00	6.63E-09	7.80E-10	2.46E-09	5.94E-13	0.00E+00	3.24E-09
2027	420112.62	3734429.65	9.24E-09	3.90E-08	1.71E-11	0.00E+00	4.83E-08	1.27E-09	5.34E-09	2.55E-12	0.00E+00	6.61E-09	7.77E-10	2.45E-09	5.92E-13	0.00E+00	3.23E-09
2028	420110.08	3734420.48	9.20E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.74E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
2029	420107.54	3734411.32	9.16E-09	3.87E-08	1.70E-11	0.00E+00	4.78E-08	1.26E-09	5.29E-09	2.53E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.87E-13	0.00E+00	3.20E-09
2030	420373.98	3734862.6	1.60E-08	6.75E-08	2.96E-11	0.00E+00	8.35E-08	2.19E-09	9.23E-09	4.41E-12	0.00E+00	1.14E-08	1.34E-09	4.24E-09	1.02E-12	0.00E+00	5.59E-09
2031	420382.32	3734867.44	1.62E-08	6.86E-08	3.01E-11	0.00E+00	8.48E-08	2.23E-09	9.38E-09	4.48E-12	0.00E+00	1.16E-08	1.37E-09	4.31E-09	1.04E-12	0.00E+00	5.68E-09
2032	420390.66	3734872.28	1.65E-08	6.96E-08	3.05E-11	0.00E+00	8.61E-08	2.26E-09	9.51E-09	4.55E-12	0.00E+00	1.18E-08	1.39E-09	4.37E-09	1.06E-12	0.00E+00	5.76E-09
2033	420399	3734877.12	1.67E-08	7.06E-08	3.10E-11	0.00E+00	8.74E-08	2.29E-09	9.66E-09	4.61E-12	0.00E+00	1.20E-08	1.41E-09	4.44E-09	1.07E-12	0.00E+00	5.85E-09
2034	420407.35	3734881.96	1.70E-08	7.18E-08	3.15E-11	0.00E+00	8.88E-08	2.33E-09	9.81E-09	4.69E-12	0.00E+00	1.21E-08	1.43E-09	4.51E-09	1.09E-12	0.00E+00	5.94E-09
2035	420333.6	3734876.96	1.33E-08	5.63E-08	2.47E-11	0.00E+00	6.96E-08	1.83E-09	7.69E-09	3.68E-12	0.00E+00	9.52E-09	1.12E-09	3.54E-09	8.54E-13	0.00E+00	4.66E-09
2036	420326.84	3734870.22	1.32E-08	5.59E-08	2.45E-11	0.00E+00	6.92E-08	1.82E-09	7.65E-09	3.66E-12	0.00E+00	9.47E-09	1.11E-09	3.52E-09	8.49E-13	0.00E+00	4.63E-09
2037	420320.07	3734863.47	1.32E-08	5.55E-08	2.44E-11	0.00E+00	6.87E-08	1.80E-09	7.60E-09	3.63E-12	0.00E+00	9.40E-09	1.11E-09	3.49E-09	8.43E-13	0.00E+00	4.60E-09
2038	420313.31	3734856.73	1.30E-08	5.51E-08	2.42E-11	0.00E+00	6.82E-08	1.79E-09	7.53E-09	3.60E-12	0.00E+00	9.33E-09	1.10E-09	3.46E-09	8.36E-13	0.00E+00	4.56E-09
2039	420306.54	3734849.98	1.29E-08	5.45E-08	2.39E-11	0.00E+00	6.74E-08	1.77E-09	7.45E-09	3.56E-12	0.00E+00	9.23E-09	1.09E-09	3.43E-09	8.27E-13	0.00E+00	4.51E-09
2040	420299.77	3734843.23	1.28E-08	5.39E-08	2.36E-11	0.00E+00	6.67E-08	1.75E-09	7.37E-09	3.52E-12	0.00E+00	9.12E-09	1.07E-09	3.39E-09	8.18E-13	0.00E+00	4.46E-09
2041	420293.01	3734836.49	1.26E-08	5.33E-08	2.34E-11	0.00E+00	6.59E-08	1.73E-09	7.28E-09	3.48E-12	0.00E+00	9.01E-09	1.06E-09	3.35E-09	8.08E-13	0.00E+00	4.41E-09
2042	420286.24	3734829.74	1.24E-08	5.25E-08	2.30E-11	0.00E+00	6.49E-08	1.70E-09	7.18E-09	3.43E-12	0.00E+00	8.88E-09	1.05E-09	3.30E-09	7.96E-13	0.00E+00	4.34E-09
2043	420279.47	3734823	1.22E-08	5.17E-08	2.27E-11	0.00E+00	6.39E-08	1.68E-09	7.07E-09	3.38E-12	0.00E+00	8.75E-09	1.03E-09	3.25E-09	7.84E-13	0.00E+00	4.28E-09
2044	420272.71	3734816.25	1.21E-08	5.09E-08	2.23E-11	0.00E+00	6.30E-08	1.65E-09	6.96E-09	3.33E-12	0.00E+00	8.61E-09	1.01E-09	3.20E-09	7.72E-13	0.00E+00	4.21E-09
2045	420265.94	3734809.5	1.19E-08	5.02E-08	2.20E-11	0.00E+00	6.22E-08	1.63E-09	6.87E-09	3.28E-12	0.00E+00	8.50E-09	1.00E-09	3.16E-09	7.62E-13	0.00E+00	4.16E-09
2046	420245.64	3734789.27	1.14E-08	4.81E-08	2.11E-11	0.00E+00	5.96E-08	1.56E-09	6.58E-09	3.15E-12	0.00E+00	8.15E-09	9.59E-10	3.02E-09	7.30E-13	0.00E+00	3.98E-09
2047	420238.88	3734782.52	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.86E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.02E-09	9.44E-10	2.98E-09	7.19E-13	0.00E+00	3.92E-09
2048	420232.11	3734775.77	1.10E-08	4.66E-08	2.05E-11	0.00E+00	5.77E-08	1.51E-09	6.37E-09	3.05E-12	0.00E+00	7.89E-09	9.29E-10	2.93E-09	7.07E-13	0.00E+00	3.86E-09
2049	420225.34	3734769.03	1.09E-08	4.58E-08	2.01E-11	0.00E+00	5.67E-08	1.49E-09	6.27E-09	2.99E-12	0.00E+00	7.76E-09	9.13E-10	2.88E-09	6.95E-13	0.00E+00	3.79E-09
2050	420218.58	3734762.28	1.07E-08	4.51E-08	1.98E-11	0.00E+00	5.57E-08	1.46E-09	6.16E-09	2.94E-12	0.00E+00	7.63E-09	8.98E-10	2.83E-09	6.84E-13	0.00E+00	3.73E-09
2051	420211.81	3734755.53	1.05E-08	4.43E-08	1.94E-11	0.00E+00	5.48E-08	1.44E-09	6.06E-09	2.90E-12	0.00E+00	7.50E-09	8.83E-10	2.78E-09	6.72E-13	0.00E+00	3.67E-09
2052	420184.75	3734728.55	9.78E-09	4.13E-08	1.81E-11	0.00E+00	5.11E-08	1.34E-09	5.65E-09	2.70E-12	0.00E+00	6.99E-09	8.23E-10	2.60E-09	6.27E-13	0.00E+00	3.42E-09
2053	420177.98	3734721.8	9.61E-09	4.06E-08	1.78E-11	0.00E+00	5.02E-08	1.32E-09	5.55E-09	2.65E-12	0.00E+00	6.87E-09	8.08E-10	2.55E-09	6.15E-13	0.00E+00	3.36E-09
2054	420171.21	3734715.06	9.44E-09	3.98E-08	1.75E-11	0.00E+00	4.93E-08	1.29E-09	5.45E-09	2.60E-12	0.00E+00	6.75E-09	7.94E-10	2.50E-09	6.05E-13	0.00E+00	3.30E-09
2055	420164.45	3734708.31	9.27E-09	3.91E-08	1.72E-11	0.00E+00	4.84E-08	1.27E-09	5.35E-09	2.56E-12	0.00E+00	6.62E-09	7.80E-10	2.46E-09	5.94E-13	0.00E+00	3.24E-09
2056	420157.68	3734701.57	9.10E-09	3.84E-08	1.69E-11	0.00E+00	4.75E-08	1.25E-09	5.25E-09	2.51E-12	0.00E+00	6.50E-09	7.66E-10	2.42E-09	5.83E-13	0.00E+00	3.18E-09
2057	420150.91	3734694.82	8.94E-09	3.77E-08	1.66E-11	0.00E+00	4.67E-08	1.22E-09	5.16E-09	2.47E-12	0.00E+00	6.39E-09	7.52E-10	2.37E-09	5.72E-13	0.00E+00	3.12E-09
2058	420141.6	3734678.87	8.76E-09	3.70E-08	1.62E-11	0.00E+00	4.58E-08	1.20E-09	5.06E-09	2.42E-12	0.00E+00	6.26E-09	7.37E-10	2.33E-09	5.61E-13	0.00E+00	3.06E-09
2059	420139.04	3734669.66	8.75E-09	3.70E-08	1.62E-11	0.00E+00	4.57E-08	1.20E-09	5.05E-09	2.42E-12	0.00E+00	6.26E-09	7.36E-10	2.32E-09	5.61E-13	0.00E+00	3.06E-09
2060	420136.49	3734660.45	8.74E-09	3.69E-08	1.62E-11	0.00E+00	4.57E-08	1.20E-09	5.05E-09	2.41E-12	0.00E+00	6.25E-09	7.35E-10	2.32E-09	5.60E-13	0.00E+00	3.06E-09
2061	420133.94	3734651.24	8.73E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.34E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
2062	420131.38	3734642.04	8.71E-09	3.68E-08	1.61E-11	0.00E+00	4.55E-08	1.19E-09	5.03E-09	2.40E-12	0.00E+00	6.22E-09	7.32E-10	2.31E-09	5.58E-13	0.00E+00	3.04E-09
2063	420128.83	3734632.83	8.68E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.01E-09	2.39E-12	0.00E+00	6.20E-09	7.30E-10	2.30E-09	5.56E-13	0.00E+00	3.03E-09
2064	420126.28	3734623.62	8.65E-09	3.65E-08	1.60E-11	0.00E+00	4.52E-08	1.19E-09	4.99E-09	2.39E-12	0.00E+00	6.18E-09	7.28E-10	2.30E-09	5.54E-13	0.00E+00	3.02E-09
2065	420123.72	3734614.41	8.62E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.98E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
2066	420121.17	3734605.21	8.59E-09	3.63E-08	1.59E-11	0.00E+00	4.49E-08	1.18E-09	4.96E-09	2.37E-12	0.00E+00	6.14E-09	7.23E-10	2.28E-09	5.50E-13	0.00E+00	3.00E-09
2067	420118.62	3734596	8.56E-09	3.61E-08	1.59E-11	0.00E+00	4.47E-08	1.17E-09	4.94E-09	2.36E-12	0.00E+00	6.12E-09	7.20E-10	2.27E-09	5.48E-13	0.00E+00	2.99E-09
2068	420116.06	3734586.79	8.53E-09	3.60E-08	1.58E-11	0.00E+00	4.45E-08	1.17E-09	4.92E-09	2.35E-12	0.00E+00	6.09E-09	7.17E-10	2.26E-09	5.46E-13	0.00E+00	2.98E-09
2069	420113.51	3734577.59	8.49E-09	3.59E-08	1.57E-11	0.00E+00	4.44E-08	1.16E-09	4.90E-09	2.34E-12	0.00E+00	6.07E-09	7.14E-10	2.25E-09	5.44E-13	0.00E+00	2.97E-09
2070	420110.96	3734568.38	8.45E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.04E-09	7.11E-10	2.24E-09	5.42E-13	0.00E+00	2.96E-09
2071	420100.75	3734531.55	8.18E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.72E-09	2.26E-12	0.00E+00	5.85E-09	6.88E-10	2.17E-09	5.24E-13	0.00E+00	2.86E-09
2072	420098.19	3734522.34	8.05E-09	3.40E-08	1.49E-11	0.00E+00	4.21E-08	1.10E-09	4.65E-09	2.22E-12	0.00E+00	5.75E-09	6.77E-10	2.14E-09	5.16E-13	0.00E+00	2.81E-09
2073	420095.64	3734513.13	7.99E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.10E-09	4.61E-09	2.21E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.12E-13	0.00E+00	2.79E-09
2074	420093.09	3734503.93	7.96E-09	3.36E-08	1.47E-11	0.00E+00	4.16E-08	1.09E-09	4.60E-09	2.20E-12	0.00E+00	5.69E-09	6.70E-10	2.11E-09	5.10E-13	0.00E+00	2.78E-09
2075	420090.53	3734494.72	7.94E-09	3.35E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.58E-09	2.19E-12	0.00E+00	5.67E-09	6.68E-10	2.11E-09	5.08E-13	0.00E+00	2.77E-09
2076	420087.98	3734485.51	7.92E-09	3.34E-08	1.47E-11	0.00E+00	4.14E-08	1.09E-09	4.57E-09	2.18E-12	0.00E+00	5.66E-09	6.66E-10	2.10E-09	5.07E-13	0.00E+00	2.77E-09
2077	420085.43	3734476.31	7.89E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.56E-09	2.18E-12	0.00E+00	5.64E-09	6.64E-10	2.10E-09	5.06E-13	0.00E+00	2.76E-09
2078	420082.88	3734467.1	7.88E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.55E-09	2.17E-12	0.00E+00	5.63E-09	6.63E-10	2.09E-09	5.05E-13	0.00E+00	2.75E-09
2079	420075.22	3734439.48	7.92E-09	3.35E-08	1.47E-11	0.00E+00	4.14E-08	1.09E-09	4.57E-09	2.19E-12	0.00E+00	5.66E-09	6.67E-10	2.10E-09	5.07E-13	0.00E+00	2.77E-09
2080	420072.66	3734430.27	7.96E-09	3.36E-08	1.48E-11	0.00E+00	4.16E-08	1.09E-09	4.60E-09	2.20E-12	0.00E+00	5.69E-09	6.70E-10	2.11E-09	5.10E-13	0.00E+00	2.78E-09
2081	420070.11	3734421.06	7.94E-09	3.35E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.59E-09	2.19E-12	0.00E+00	5.68E-09	6.68E-10	2.11E-09	5.09E-13	0.00E+00	2.78E-09
2082	420067.56	3734411.85	7.91E-09	3.34E-08	1.47E-11	0.00E+00	4.13E-08	1.08E-09	4.57E-09	2.18E-12	0.00E+00	5.65E-09	6.66E-10	2.10E-09	5.07E-13	0.00E+00	2.77E-09
2083	420353.9	3734897.2	1.35E-08	5.70E-08	2.50E-11	0.00E+00	7.05E-08	1.85E-09	7.79E-09	3.72E-12	0.00E+00	9.65E-09	1.14E-09	3.58E-09	8.65E-13	0.00E+00	4.72E-09
2084	420362.25	3734902.04	1.37E-08	5.78E-08	2.53E-11	0.00E+00	7.15E-08	1.88E-09	7.90E-09	3.78E-12	0.00E+00	9.78E-09	1.15E-09	3.63E-09	8.76E-13	0.00E+00	4.78E-09
2085	420370.59	3734906.88	1.39E-08	5.86E-08	2.57E-11	0.00E+00	7.25E-08	1.90E-09	8.01E-09	3.83E-12	0.00E+00	9.92E-09	1.17E-09	3.68E-09	8.89E-13	0.00E+00	4.85E-09
2086	420378.93	3734911.72	1.41E-08	5.94E-08	2.61E-11	0.00E+00	7.35E-08	1.93E-09	8.12E-09	3.88E-12	0.00E+00	1.01E-08	1.18E-09	3.73E-09	9.01E-13	0.00E+00	4.92E-09
2087	420387.27	3734916.56	1.43E-08	6.02E-08	2.64E-11	0.00E+00	7.45E-08	1.95E-09	8.23E-09	3.93E-12	0.00E+00	1.02E-08	1.20E-09	3.78E-09	9.13E-13	0.00E+00	4.98E-09
2088	420313.45	3734911.48	1.16E-08	4.88E-08	2.14E-11	0.00E+00	6.04E-08	1.58E-09	6.67E-09	3.19E-12	0.00E+00	8.26E-09	9.72E-10	3.07E-09	7.40E-13	0.00E+00	4.04E-09
2089	420306.65	3734904.7	1.15E-08	4.85E-08	2.13E-11	0.00E+00	5.99E-08	1.57E-09	6.63E-09	3.17E-12	0.00E+00	8.20E-09	9.65E-10	3.05E-09	7.35E-13	0.00E+00	4.01E-09
2090	420299.86	3734897.93	1.14E-08	4.81E-08	2.11E-11	0.00E+00	5.95E-08	1.56E-09	6.58E-09	3.14E-12	0.00E+00	8.14E-09	9.58E-10	3.02E-09	7.30E-13	0.00E+00	3.98E-09
2091	420293.06	3734891.16	1.13E-08	4.77E-08	2.09E-11	0.00E+00	5.90E-08	1.55E-09	6.52E-09	3.12E-12	0.00E+00	8.07E-09	9.50E-10	3.00E-09	7.24E-13	0.00E+00	3.95E-09
2092	420286.27	3734884.38	1.12E-08	4.73E-08	2.07E-11	0.00E+00	5.85E-08	1.53E-09	6.46E-09	3.09E-12	0.00E+00	8.00E-09	9.42E-10	2.97E-09	7.17E-13	0.00E+00	3.91E-09
2093	420279.47	3734877.61	1.11E-08	4.68E-08	2.05E-11	0.00E+00	5.79E-08	1.52E-09	6.40E-09	3.06E-12	0.00E+00	7.92E-09	9.33E-10	2.94E-09	7.10E-13	0.00E+00	3.88E-09
2094	420272.68	3734870.83	1.10E-08	4.63E-08	2.03E-11	0.00E+00	5.73E-08	1.50E-09	6.34E-09	3.03E-12	0.00E+00	7.84E-09	9.23E-10	2.91E-09	7.03E-13	0.00E+00	3.84E-09
2095	420265.88	3734864.06	1.08E-08	4.58E-08	2.01E-11	0.00E+00	5.67E-08	1.49E-09	6.26E-09	2.99E-12	0.00E+00	7.75E-09	9.13E-10	2.88E-09	6.95E-13	0.00E+00	3.79E-09
2096	420259.09	3734857.28	1.07E-08	4.53E-08	1.99E-11	0.00E+00	5.60E-08	1.47E-09	6.19E-09	2.96E-12	0.00E+00	7.66E-09	9.02E-10	2.85E-09	6.87E-13	0.00E+00	3.75E-09
2097	420252.3	3734850.51	1.06E-08	4.47E-08	1.96E-11	0.00E+00	5.53E-08	1.45E-09	6.11E-09	2.92E-12	0.00E+00	7.56E-09	8.90E-10	2.81E-09	6.78E-13	0.00E+00	3.70E-09
2098	420231.91	3734830.19	1.02E-08	4.29E-08	1.88E-11	0.00E+00	5.31E-08	1.39E-09	5.87E-09	2.81E-12	0.00E+00	7.27E-09	8.56E-10	2.70E-09	6.51E-13	0.00E+00	3.55E-09
2099	420225.12	3734823.41	1.00E-08	4.23E-08	1.86E-11	0.00E+00	5.24E-08	1.37E-09	5.79E-09	2.77E-12	0.00E+00	7.17E-09	8.43E-10	2.66E-09	6.42E-13	0.00E+00	3.50E-09
2100	420218.32	3734816.64	9.88E-09	4.17E-08	1.83E-11	0.00E+00	5.16E-08	1.35E-09	5.71E-09	2.73E-12	0.00E+00	7.06E-09	8.32E-10	2.62E-09	6.33E-13	0.00E+00	3.46E-09
2101	420211.53	3734809.86	9.74E-09	4.11E-08	1.80E-11	0.00E+00	5.09E-08	1.34E-09	5.62E-09	2.69E-12	0.00E+00	6.96E-09	8.19E-10	2.58E-09	6.24E-13	0.00E+00	3.40E-09
2102	420204.73	3734803.09	9.59E-09	4.05E-08	1.78E-11	0.00E+00	5.01E-08	1.31E-09	5.54E-09	2.65E-12	0.00E+00	6.86E-09	8.07E-10	2.55E-09	6.14E-13	0.00E+00	3.35E-09
2103	420197.94	3734796.32	9.45E-09	3.99E-08	1.75E-11	0.00E+00	4.94E-08	1.30E-09	5.45E-09	2.61E-12	0.00E+00	6.75E-09	7.95E-10	2.51E-09	6.05E-13	0.00E+00	3.30E-09
2104	420191.14	3734789.54	9.30E-09	3.93E-08	1.72E-11	0.00E+00	4.86E-08	1.27E-09	5.37E-09	2.57E-12	0.00E+00	6.65E-09	7.82E-10	2.47E-09	5.96E-13	0.00E+00	3.25E-09
2105	420184.35	3734782.77	9.15E-09	3.86E-08	1.70E-11	0.00E+00	4.78E-08	1.25E-09	5.28E-09	2.53E-12	0.00E+00	6.54E-09	7.70E-10	2.43E-09	5.86E-13	0.00E+00	3.20E-09
2106	420177.56	3734775.99	9.01E-09	3.80E-08	1.67E-11	0.00E+00	4.71E-08	1.23E-09	5.20E-09	2.49E-12	0.00E+00	6.44E-09	7.58E-10	2.39E-09	5.77E-13	0.00E+00	3.15E-09
2107	420170.76	3734769.22	8.86E-09	3.74E-08	1.64E-11	0.00E+00	4.63E-08	1.21E-09	5.11E-09	2.44E-12	0.00E+00	6.33E-09	7.45E-10	2.35E-09	5.67E-13	0.00E+00	3.10E-09
2108	420163.97	3734762.44	8.72E-09	3.68E-08	1.61E-11	0.00E+00	4.55E-08	1.19E-09	5.03E-09	2.41E-12	0.00E+00	6.23E-09	7.33E-10	2.31E-09	5.58E-13	0.00E+00	3.05E-09
2109	420129.99	3734728.57	8.03E-09	3.39E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.64E-09	2.22E-12	0.00E+00	5.74E-09	6.75E-10	2.13E-09	5.14E-13	0.00E+00	2.81E-09
2110	420123.2	3734721.8	7.89E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.56E-09	2.18E-12	0.00E+00	5.64E-09	6.64E-10	2.10E-09	5.06E-13	0.00E+00	2.76E-09
2111	420116.4	3734715.02	7.76E-09	3.28E-08	1.44E-11	0.00E+00	4.06E-08	1.06E-09	4.48E-09	2.14E-12	0.00E+00	5.55E-09	6.53E-10	2.06E-09	4.97E-13	0.00E+00	2.71E-09
2112	420107.05	3734699	7.60E-09	3.21E-08	1.41E-11	0.00E+00	3.97E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.43E-09	6.40E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09

2113	420104.48	3734689.76	7.62E-09	3.22E-08	1.41E-11	0.00E+00	3.98E-08	1.04E-09	4.40E-09	2.10E-12	0.00E+00	5.44E-09	6.41E-10	2.02E-09	4.88E-13	0.00E+00	2.66E-09
2114	420101.92	3734680.51	7.61E-09	3.21E-08	1.41E-11	0.00E+00	3.97E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.44E-09	6.40E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09
2115	420099.35	3734671.27	7.59E-09	3.21E-08	1.41E-11	0.00E+00	3.97E-08	1.04E-09	4.38E-09	2.10E-12	0.00E+00	5.43E-09	6.39E-10	2.01E-09	4.86E-13	0.00E+00	2.65E-09
2116	420096.79	3734662.02	7.58E-09	3.20E-08	1.40E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.85E-13	0.00E+00	2.65E-09
2117	420094.23	3734652.77	7.56E-09	3.19E-08	1.40E-11	0.00E+00	3.95E-08	1.04E-09	4.37E-09	2.09E-12	0.00E+00	5.40E-09	6.36E-10	2.01E-09	4.84E-13	0.00E+00	2.64E-09
2118	420091.66	3734643.53	7.54E-09	3.19E-08	1.40E-11	0.00E+00	3.94E-08	1.03E-09	4.36E-09	2.08E-12	0.00E+00	5.39E-09	6.35E-10	2.00E-09	4.83E-13	0.00E+00	2.64E-09
2119	420089.1	3734634.28	7.52E-09	3.18E-08	1.39E-11	0.00E+00	3.93E-08	1.03E-09	4.34E-09	2.08E-12	0.00E+00	5.38E-09	6.33E-10	2.00E-09	4.82E-13	0.00E+00	2.63E-09
2120	420086.54	3734625.04	7.50E-09	3.17E-08	1.39E-11	0.00E+00	3.92E-08	1.03E-09	4.33E-09	2.07E-12	0.00E+00	5.36E-09	6.31E-10	1.99E-09	4.80E-13	0.00E+00	2.62E-09
2121	420083.97	3734615.79	7.47E-09	3.16E-08	1.38E-11	0.00E+00	3.90E-08	1.02E-09	4.31E-09	2.06E-12	0.00E+00	5.34E-09	6.29E-10	1.98E-09	4.79E-13	0.00E+00	2.61E-09
2122	420081.41	3734606.55	7.44E-09	3.14E-08	1.38E-11	0.00E+00	3.89E-08	1.02E-09	4.30E-09	2.05E-12	0.00E+00	5.32E-09	6.26E-10	1.98E-09	4.77E-13	0.00E+00	2.60E-09
2123	420078.84	3734597.3	7.42E-09	3.13E-08	1.37E-11	0.00E+00	3.88E-08	1.02E-09	4.28E-09	2.05E-12	0.00E+00	5.30E-09	6.24E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
2124	420076.28	3734588.05	7.39E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.28E-09	6.22E-10	1.96E-09	4.74E-13	0.00E+00	2.58E-09
2125	420073.72	3734578.81	7.37E-09	3.11E-08	1.36E-11	0.00E+00	3.85E-08	1.01E-09	4.25E-09	2.03E-12	0.00E+00	5.26E-09	6.20E-10	1.95E-09	4.72E-13	0.00E+00	2.57E-09
2126	420071.15	3734569.56	7.33E-09	3.10E-08	1.36E-11	0.00E+00	3.83E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.95E-09	4.70E-13	0.00E+00	2.56E-09
2127	420060.9	3734532.58	7.05E-09	2.98E-08	1.31E-11	0.00E+00	3.68E-08	9.66E-10	4.07E-09	1.94E-12	0.00E+00	5.04E-09	5.93E-10	1.87E-09	4.51E-13	0.00E+00	2.46E-09
2128	420058.34	3734523.33	6.96E-09	2.94E-08	1.29E-11	0.00E+00	3.64E-08	9.54E-10	4.02E-09	1.92E-12	0.00E+00	4.97E-09	5.86E-10	1.85E-09	4.46E-13	0.00E+00	2.43E-09
2129	420055.77	3734514.09	6.91E-09	2.92E-08	1.28E-11	0.00E+00	3.61E-08	9.47E-10	3.99E-09	1.91E-12	0.00E+00	4.94E-09	5.81E-10	1.83E-09	4.43E-13	0.00E+00	2.42E-09
2130	420053.21	3734504.84	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.42E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
2131	420050.64	3734495.6	6.84E-09	2.89E-08	1.27E-11	0.00E+00	3.58E-08	9.38E-10	3.95E-09	1.89E-12	0.00E+00	4.89E-09	5.76E-10	1.82E-09	4.38E-13	0.00E+00	2.39E-09
2132	420048.08	3734486.35	6.82E-09	2.88E-08	1.26E-11	0.00E+00	3.56E-08	9.35E-10	3.94E-09	1.88E-12	0.00E+00	4.87E-09	5.74E-10	1.81E-09	4.37E-13	0.00E+00	2.38E-09
2133	420045.52	3734477.1	6.82E-09	2.88E-08	1.26E-11	0.00E+00	3.56E-08	9.34E-10	3.94E-09	1.88E-12	0.00E+00	4.87E-09	5.73E-10	1.81E-09	4.37E-13	0.00E+00	2.38E-09
2134	420042.95	3734467.86	6.81E-09	2.88E-08	1.26E-11	0.00E+00	3.56E-08	9.33E-10	3.93E-09	1.88E-12	0.00E+00	4.87E-09	5.73E-10	1.81E-09	4.36E-13	0.00E+00	2.38E-09
2135	420035.26	3734440.12	6.85E-09	2.89E-08	1.27E-11	0.00E+00	3.58E-08	9.40E-10	3.96E-09	1.89E-12	0.00E+00	4.90E-09	5.77E-10	1.82E-09	4.39E-13	0.00E+00	2.40E-09
2136	420032.7	3734430.88	6.88E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.43E-10	3.97E-09	1.90E-12	0.00E+00	4.92E-09	5.79E-10	1.83E-09	4.41E-13	0.00E+00	2.40E-09
2137	420030.13	3734421.63	6.90E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.46E-10	3.98E-09	1.90E-12	0.00E+00	4.93E-09	5.80E-10	1.83E-09	4.42E-13	0.00E+00	2.41E-09
2138	420027.57	3734412.38	6.92E-09	2.92E-08	1.28E-11	0.00E+00	3.61E-08	9.48E-10	3.99E-09	1.91E-12	0.00E+00	4.94E-09	5.82E-10	1.84E-09	4.43E-13	0.00E+00	2.42E-09
2139	420306.94	3734959.6	1.02E-08	4.29E-08	1.88E-11	0.00E+00	5.30E-08	1.39E-09	5.86E-09	2.80E-12	0.00E+00	7.26E-09	8.54E-10	2.69E-09	6.50E-13	0.00E+00	3.55E-09
2140	420300.12	3734952.8	1.01E-08	4.27E-08	1.87E-11	0.00E+00	5.28E-08	1.39E-09	5.84E-09	2.79E-12	0.00E+00	7.22E-09	8.50E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
2141	420293.3	3734946	1.01E-08	4.25E-08	1.86E-11	0.00E+00	5.26E-08	1.38E-09	5.81E-09	2.78E-12	0.00E+00	7.19E-09	8.46E-10	2.67E-09	6.44E-13	0.00E+00	3.52E-09
2142	420286.48	3734939.2	1.00E-08	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.77E-09	2.76E-12	0.00E+00	7.15E-09	8.41E-10	2.65E-09	6.41E-13	0.00E+00	3.50E-09
2143	420279.66	3734932.4	9.93E-09	4.19E-08	1.84E-11	0.00E+00	5.19E-08	1.36E-09	5.73E-09	2.74E-12	0.00E+00	7.09E-09	8.35E-10	2.63E-09	6.36E-13	0.00E+00	3.47E-09
2144	420272.84	3734925.6	9.84E-09	4.15E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.72E-12	0.00E+00	7.03E-09	8.28E-10	2.61E-09	6.30E-13	0.00E+00	3.44E-09
2145	420266.02	3734918.81	9.76E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.21E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
2146	420259.2	3734912.01	9.67E-09	4.08E-08	1.79E-11	0.00E+00	5.05E-08	1.33E-09	5.59E-09	2.67E-12	0.00E+00	6.91E-09	8.14E-10	2.57E-09	6.20E-13	0.00E+00	3.38E-09
2147	420252.38	3734905.21	9.59E-09	4.05E-08	1.78E-11	0.00E+00	5.01E-08	1.31E-09	5.54E-09	2.65E-12	0.00E+00	6.86E-09	8.07E-10	2.55E-09	6.14E-13	0.00E+00	3.35E-09
2148	420197.82	3734850.81	8.73E-09	3.69E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.34E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
2149	420191	3734844.01	8.63E-09	3.64E-08	1.60E-11	0.00E+00	4.51E-08	1.18E-09	4.98E-09	2.38E-12	0.00E+00	6.17E-09	7.26E-10	2.29E-09	5.53E-13	0.00E+00	3.02E-09
2150	420184.18	3734837.21	8.53E-09	3.60E-08	1.58E-11	0.00E+00	4.45E-08	1.17E-09	4.92E-09	2.35E-12	0.00E+00	6.09E-09	7.17E-10	2.26E-09	5.46E-13	0.00E+00	2.98E-09
2151	420177.36	3734830.41	8.41E-09	3.55E-08	1.56E-11	0.00E+00	4.39E-08	1.15E-09	4.85E-09	2.32E-12	0.00E+00	6.01E-09	7.07E-10	2.23E-09	5.39E-13	0.00E+00	2.94E-09
2152	420170.55	3734823.62	8.29E-09	3.50E-08	1.54E-11	0.00E+00	4.33E-08	1.14E-09	4.78E-09	2.29E-12	0.00E+00	5.92E-09	6.97E-10	2.20E-09	5.31E-13	0.00E+00	2.90E-09
2153	420163.73	3734816.82	8.17E-09	3.45E-08	1.51E-11	0.00E+00	4.27E-08	1.12E-09	4.72E-09	2.25E-12	0.00E+00	5.84E-09	6.87E-10	2.17E-09	5.23E-13	0.00E+00	2.85E-09
2154	420156.91	3734810.02	8.05E-09	3.40E-08	1.49E-11	0.00E+00	4.21E-08	1.10E-09	4.65E-09	2.22E-12	0.00E+00	5.75E-09	6.77E-10	2.14E-09	5.16E-13	0.00E+00	2.81E-09
2155	420150.09	3734803.22	7.93E-09	3.35E-08	1.47E-11	0.00E+00	4.14E-08	1.09E-09	4.58E-09	2.19E-12	0.00E+00	5.67E-09	6.67E-10	2.10E-09	5.08E-13	0.00E+00	2.77E-09
2156	420143.27	3734796.42	7.82E-09	3.30E-08	1.45E-11	0.00E+00	4.08E-08	1.07E-09	4.51E-09	2.16E-12	0.00E+00	5.59E-09	6.58E-10	2.07E-09	5.01E-13	0.00E+00	2.73E-09
2157	420136.45	3734789.62	7.70E-09	3.25E-08	1.43E-11	0.00E+00	4.02E-08	1.06E-09	4.45E-09	2.12E-12	0.00E+00	5.50E-09	6.48E-10	2.04E-09	4.93E-13	0.00E+00	2.69E-09
2158	420115.99	3734769.22	7.36E-09	3.11E-08	1.36E-11	0.00E+00	3.84E-08	1.01E-09	4.25E-09	2.03E-12	0.00E+00	5.26E-09	6.19E-10	1.95E-09	4.71E-13	0.00E+00	2.57E-09
2159	420109.17	3734762.42	7.25E-09	3.06E-08	1.34E-11	0.00E+00	3.79E-08	9.93E-10	4.18E-09	2.00E-12	0.00E+00	5.18E-09	6.10E-10	1.92E-09	4.64E-13	0.00E+00	2.53E-09
2160	420102.35	3734755.62	7.14E-09	3.01E-08	1.32E-11	0.00E+00	3.73E-08	9.78E-10	4.12E-09	1.97E-12	0.00E+00	5.10E-09	6.00E-10	1.89E-09	4.57E-13	0.00E+00	2.49E-09
2161	420072.5	3734719.15	6.63E-09	2.80E-08	1.23E-11	0.00E+00	3.46E-08	9.08E-10	3.83E-09	1.83E-12	0.00E+00	4.74E-09	5.58E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
2162	420069.92	3734709.87	6.60E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.05E-10	3.81E-09	1.82E-12	0.00E+00	4.72E-09	5.56E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
2163	420067.35	3734700.59	6.57E-09	2.78E-08	1.22E-11	0.00E+00	3.43E-08	9.01E-10	3.79E-09	1.81E-12	0.00E+00	4.70E-09	5.53E-10	1.74E-09	4.21E-13	0.00E+00	2.30E-09
2164	420064.78	3734691.31	6.58E-09	2.78E-08	1.22E-11	0.00E+00	3.44E-08	9.02E-10	3.80E-09	1.82E-12	0.00E+00	4.70E-09	5.54E-10	1.75E-09	4.22E-13	0.00E+00	2.30E-09
2165	420062.2	3734682.03	6.60E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.04E-10	3.81E-09	1.82E-12	0.00E+00	4.71E-09	5.55E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
2166	420059.63	3734672.75	6.61E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.06E-10	3.82E-09	1.82E-12	0.00E+00	4.72E-09	5.56E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
2167	420057.06	3734663.47	6.63E-09	2.80E-08	1.23E-11	0.00E+00	3.47E-08	9.09E-10	3.83E-09	1.83E-12	0.00E+00	4.74E-09	5.58E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
2168	420054.49	3734654.19	6.62E-09	2.79E-08	1.23E-11	0.00E+00	3.46E-08	9.07E-10	3.82E-09	1.83E-12	0.00E+00	4.73E-09	5.57E-10	1.76E-09	4.24E-13	0.00E+00	2.31E-09
2169	420051.91	3734644.91	6.60E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.05E-10	3.81E-09	1.82E-12	0.00E+00	4.72E-09	5.56E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
2170	420049.34	3734635.63	6.59E-09	2.78E-08	1.22E-11	0.00E+00	3.44E-08	9.03E-10	3.80E-09	1.82E-12	0.00E+00	4.71E-09	5.54E-10	1.75E-09	4.22E-13	0.00E+00	2.30E-09
2171	420046.77	3734626.35	6.57E-09	2.77E-08	1.22E-11	0.00E+00	3.43E-08	9.00E-10	3.79E-09	1.81E-12	0.00E+00	4.69E-09	5.52E-10	1.74E-09	4.21E-13	0.00E+00	2.29E-09
2172	420044.19	3734617.07	6.54E-09	2.76E-08	1.21E-11	0.00E+00	3.42E-08	8.97E-10	3.78E-09	1.81E-12	0.00E+00	4.68E-09	5.51E-10	1.74E-09	4.19E-13	0.00E+00	2.29E-09
2173	420041.62	3734607.79	6.52E-09	2.75E-08	1.21E-11	0.00E+00	3.41E-08	8.94E-10	3.76E-09	1.80E-12	0.00E+00	4.66E-09	5.49E-10	1.73E-09	4.18E-13	0.00E+00	2.28E-09
2174	420039.05	3734598.51	6.50E-09	2.74E-08	1.20E-11	0.00E+00	3.39E-08	8.91E-10	3.75E-09	1.79E-12	0.00E+00	4.64E-09	5.47E-10	1.72E-09	4.16E-13	0.00E+00	2.27E-09
2175	420036.47	3734589.23	6.47E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.87E-10	3.74E-09	1.79E-12	0.00E+00	4.63E-09	5.45E-10	1.72E-09	4.15E-13	0.00E+00	2.26E-09
2176	420033.9	3734579.95	6.45E-09	2.72E-08	1.19E-11	0.00E+00	3.37E-08	8.84E-10	3.72E-09	1.78E-12	0.00E+00	4.61E-09	5.43E-10	1.71E-09	4.13E-13	0.00E+00	2.25E-09
2177	420031.33	3734570.67	6.42E-09	2.71E-08	1.19E-11	0.00E+00	3.36E-08	8.81E-10	3.71E-09	1.77E-12	0.00E+00	4.59E-09	5.40E-10	1.70E-09	4.12E-13	0.00E+00	2.25E-09
2178	420021.03	3734533.55	6.21E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.51E-10	3.59E-09	1.71E-12	0.00E+00	4.44E-09	5.23E-10	1.65E-09	3.98E-13	0.00E+00	2.17E-09
2179	420018.46	3734524.27	6.15E-09	2.60E-08	1.14E-11	0.00E+00	3.21E-08	8.43E-10	3.55E-09	1.70E-12	0.00E+00	4.39E-09	5.17E-10	1.63E-09	3.94E-13	0.00E+00	2.15E-09
2180	420015.89	3734514.99	6.10E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.36E-10	3.52E-09	1.68E-12	0.00E+00	4.36E-09	5.13E-10	1.62E-09	3.91E-13	0.00E+00	2.13E-09
2181	420013.31	3734505.71	6.08E-09	2.57E-08	1.13E-11	0.00E+00	3.17E-08	8.33E-10	3.51E-09	1.68E-12	0.00E+00	4.34E-09	5.11E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
2182	420010.74	3734496.43	6.05E-09	2.56E-08	1.12E-11	0.00E+00	3.16E-08	8.30E-10	3.50E-09	1.67E-12	0.00E+00	4.33E-09	5.09E-10	1.61E-09	3.88E-13	0.00E+00	2.12E-09
2183	420008.17	3734487.15	6.04E-09	2.55E-08	1.12E-11	0.00E+00	3.15E-08	8.27E-10	3.49E-09	1.67E-12	0.00E+00	4.31E-09	5.08E-10	1.60E-09	3.87E-13	0.00E+00	2.11E-09
2184	420005.6	3734477.87	6.03E-09	2.54E-08	1.12E-11	0.00E+00	3.15E-08	8.26E-10	3.48E-09	1.66E-12	0.00E+00	4.31E-09	5.07E-10	1.60E-09	3.86E-13	0.00E+00	2.11E-09
2185	420003.02	3734468.59	6.02E-09	2.54E-08	1.11E-11	0.00E+00	3.14E-08	8.25E-10	3.47E-09	1.66E-12	0.00E+00	4.30E-09	5.06E-10	1.60E-09	3.85E-13	0.00E+00	2.10E-09
2186	419995.3	3734440.75	6.08E-09	2.57E-08	1.13E-11	0.00E+00	3.18E-08	8.34E-10	3.51E-09	1.68E-12	0.00E+00	4.35E-09	5.12E-10	1.61E-09	3.90E-13	0.00E+00	2.13E-09
2187	419992.73	3734431.47	6.12E-09	2.59E-08	1.13E-11	0.00E+00	3.20E-08	8.39E-10	3.53E-09	1.69E-12	0.00E+00	4.38E-09	5.15E-10	1.62E-09	3.92E-13	0.00E+00	2.14E-09
2188	419990.16	3734422.19	6.13E-09	2.59E-08	1.13E-11	0.00E+00	3.20E-08	8.40E-10	3.54E-09	1.69E-12	0.00E+00	4.38E-09	5.15E-10	1.63E-09	3.92E-13	0.00E+00	2.14E-09
2189	419987.58	3734412.91	6.11E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.37E-10	3.53E-09	1.69E-12	0.00E+00	4.37E-09	5.14E-10	1.62E-09	3.91E-13	0.00E+00	2.14E-09
2190	420313.76	3734966.4	1.02E-08	4.30E-08	1.89E-11	0.00E+00	5.32E-08	1.40E-09	5.88E-09	2.81E-12	0.00E+00	7.28E-09	8.57E-10	2.70E-09	6.53E-13	0.00E+00	3.56E-09
2191	420322.1	3734971.24	1.03E-08	4.35E-08	1.91E-11	0.00E+00	5.39E-08	1.41E-09	5.95E-09	2.84E-12	0.00E+00	7.37E-09	8.67E-10	2.74E-09	6.60E-13	0.00E+00	3.60E-09
2192	420330.44	3734976.08	1.04E-08	4.40E-08	1.93E-11	0.00E+00	5.45E-08	1.43E-09	6.02E-09	2.88E-12	0.00E+00	7.45E-09	8.77E-10	2.77E-09	6.68E-13	0.00E+00	3.65E-09
2193	420338.78	3734980.92	1.05E-08	4.45E-08	1.95E-11	0.00E+00	5.51E-08	1.45E-09	6.09E-09	2.91E-12	0.00E+00	7.54E-09	8.87E-10	2.80E-09	6.75E-13	0.00E+00	3.69E-09
2194	420347.13	3734985.76	1.07E-08	4.50E-08	1.98E-11	0.00E+00	5.57E-08	1.46E-09	6.16E-09	2.94E-12	0.00E+00	7.62E-09	8.97E-10	2.83E-09	6.83E-13	0.00E+00	3.73E-09
2195	420287.02	3734994.36	8.87E-09	3.75E-08	1.64E-11	0.00E+00	4.64E-08	1.22E-09	5.12E-09	2.45E-12	0.00E+00	6.34E-09	7.47E-10	2.35E-09	5.68E-13	0.00E+00	3.10E-09
2196	420280.36	3734987.72	8.85E-09	3.74E-08	1.64E-11	0.00E+00	4.62E-08	1.21E-09	5.11E-09	2.44E-12	0.00E+00	6.32E-09	7.44E-10	2.35E-09	5.67E-13	0.00E+00	3.09E-09
2197	420273.7	3734981.07	8.81E-09	3.72E-08	1.63E-11	0.00E+00	4.60E-08	1.21E-09	5.09E-09	2.43E-12	0.00E+00	6.30E-09	7.41E-10	2.34E-09	5.64E-13	0.00E+00	3.08E-09
2198	420267.04	3734974.43	8.76E-09	3.70E-08	1.62E-11	0.00E+00	4.58E-08	1.20E-09	5.06E-09	2.42E-12	0.00E+00	6.26E-09	7.37E-10	2.33E-09	5.61E-13	0.00E+00	3.06E-09
2199	420260.37	3734967.79	8.72E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.03E-09	2.41E-12	0.00E+00	6.23E-09	7.34E-10	2.31E-09	5.59E-13	0.00E+00	3.05E-09
2200	420253.71	3734961.15	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.01E-09	2.39E-12	0.00E+00	6.20E-09	7.30E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09
2201	420247.05	3734954.51	8.62E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.98E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
2202	420240.39	3734947.86	8.56E-09	3.61E-08	1.59E-11	0.00E+00	4.47E-08	1.17E-09	4.94E-09	2.36E-12	0.00E+00	6.12E-09	7.20E-10	2.27E-09	5.48E-13	0.00E+00	2.99E-09
2203	420233.73	3734941.22	8.50E-09	3.59E-08	1.57E-11	0.00E+00	4.44E-08	1.17E-09	4.91E-09	2.35E-12	0.00E+00	6.07E-09	7.15E-10	2.26E-09	5.44E-13	0.00E+00	2.97E-09
2204	420227.07	3734934.58	8.43E-09	3.56E-08	1.56E-11	0.00E+00	4.40E-08	1.16E-09	4.87E-09	2.33E-12	0.00E+00	6.03E-09	7.09E-10	2.24E-09	5.40E-13	0.00E+00	2.95E-09

2205	420220.4	3734927.94	8.36E-09	3.53E-08	1.55E-11	0.00E+00	4.37E-08	1.15E-09	4.83E-09	2.31E-12	0.00E+00	5.97E-09	7.03E-10	2.22E-09	5.35E-13	0.00E+00	2.92E-09
2206	420213.74	3734921.29	8.28E-09	3.50E-08	1.53E-11	0.00E+00	4.33E-08	1.13E-09	4.78E-09	2.28E-12	0.00E+00	5.92E-09	6.97E-10	2.20E-09	5.30E-13	0.00E+00	2.89E-09
2207	420207.08	3734914.65	8.20E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.73E-09	2.26E-12	0.00E+00	5.86E-09	6.90E-10	2.18E-09	5.25E-13	0.00E+00	2.87E-09
2208	420200.42	3734908.01	8.11E-09	3.43E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.69E-09	2.24E-12	0.00E+00	5.80E-09	6.83E-10	2.15E-09	5.20E-13	0.00E+00	2.84E-09
2209	420193.76	3734901.37	8.02E-09	3.39E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.63E-09	2.21E-12	0.00E+00	5.73E-09	6.75E-10	2.13E-09	5.14E-13	0.00E+00	2.80E-09
2210	420187.09	3734894.73	7.93E-09	3.35E-08	1.47E-11	0.00E+00	4.14E-08	1.09E-09	4.58E-09	2.19E-12	0.00E+00	5.67E-09	6.67E-10	2.11E-09	5.08E-13	0.00E+00	2.77E-09
2211	420180.43	3734888.08	7.85E-09	3.31E-08	1.45E-11	0.00E+00	4.10E-08	1.08E-09	4.53E-09	2.17E-12	0.00E+00	5.61E-09	6.60E-10	2.08E-09	5.03E-13	0.00E+00	2.74E-09
2212	420173.77	3734881.44	7.77E-09	3.28E-08	1.44E-11	0.00E+00	4.06E-08	1.06E-09	4.48E-09	2.14E-12	0.00E+00	5.55E-09	6.54E-10	2.06E-09	4.98E-13	0.00E+00	2.72E-09
2213	420167.11	3734874.8	7.68E-09	3.24E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.44E-09	2.12E-12	0.00E+00	5.49E-09	6.46E-10	2.04E-09	4.92E-13	0.00E+00	2.69E-09
2214	420160.45	3734868.16	7.59E-09	3.20E-08	1.41E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.86E-13	0.00E+00	2.65E-09
2215	420153.78	3734861.52	7.49E-09	3.16E-08	1.39E-11	0.00E+00	3.91E-08	1.03E-09	4.32E-09	2.07E-12	0.00E+00	5.35E-09	6.30E-10	1.99E-09	4.80E-13	0.00E+00	2.62E-09
2216	420147.12	3734854.87	7.40E-09	3.12E-08	1.37E-11	0.00E+00	3.86E-08	1.01E-09	4.27E-09	2.04E-12	0.00E+00	5.29E-09	6.22E-10	1.96E-09	4.74E-13	0.00E+00	2.59E-09
2217	420140.46	3734848.23	7.30E-09	3.08E-08	1.35E-11	0.00E+00	3.82E-08	1.00E-09	4.22E-09	2.02E-12	0.00E+00	5.22E-09	6.14E-10	1.94E-09	4.68E-13	0.00E+00	2.55E-09
2218	420093.83	3734801.74	6.65E-09	2.81E-08	1.23E-11	0.00E+00	3.47E-08	9.11E-10	3.84E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.26E-13	0.00E+00	2.32E-09
2219	420087.17	3734795.1	6.55E-09	2.77E-08	1.21E-11	0.00E+00	3.42E-08	8.99E-10	3.78E-09	1.81E-12	0.00E+00	4.69E-09	5.51E-10	1.74E-09	4.20E-13	0.00E+00	2.29E-09
2220	420080.5	3734788.45	6.47E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.86E-10	3.73E-09	1.78E-12	0.00E+00	4.62E-09	5.44E-10	1.72E-09	4.14E-13	0.00E+00	2.26E-09
2221	420073.84	3734781.81	6.38E-09	2.69E-08	1.18E-11	0.00E+00	3.33E-08	8.74E-10	3.68E-09	1.76E-12	0.00E+00	4.56E-09	5.36E-10	1.69E-09	4.08E-13	0.00E+00	2.23E-09
2222	420067.18	3734775.17	6.29E-09	2.66E-08	1.17E-11	0.00E+00	3.29E-08	8.62E-10	3.63E-09	1.74E-12	0.00E+00	4.50E-09	5.29E-10	1.67E-09	4.03E-13	0.00E+00	2.20E-09
2223	420060.52	3734768.53	6.20E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.50E-10	3.58E-09	1.71E-12	0.00E+00	4.43E-09	5.21E-10	1.64E-09	3.97E-13	0.00E+00	2.17E-09
2224	420053.86	3734761.89	6.11E-09	2.58E-08	1.13E-11	0.00E+00	3.19E-08	8.38E-10	3.53E-09	1.69E-12	0.00E+00	4.37E-09	5.14E-10	1.62E-09	3.92E-13	0.00E+00	2.14E-09
2225	420047.19	3734755.24	6.03E-09	2.54E-08	1.12E-11	0.00E+00	3.15E-08	8.26E-10	3.48E-09	1.66E-12	0.00E+00	4.31E-09	5.07E-10	1.60E-09	3.86E-13	0.00E+00	2.11E-09
2226	420035.5	3734730.47	5.88E-09	2.48E-08	1.09E-11	0.00E+00	3.07E-08	8.06E-10	3.39E-09	1.62E-12	0.00E+00	4.20E-09	4.95E-10	1.56E-09	3.77E-13	0.00E+00	2.05E-09
2227	420032.99	3734721.41	5.85E-09	2.47E-08	1.08E-11	0.00E+00	3.06E-08	8.02E-10	3.38E-09	1.62E-12	0.00E+00	4.18E-09	4.93E-10	1.55E-09	3.75E-13	0.00E+00	2.05E-09
2228	420030.48	3734712.34	5.83E-09	2.46E-08	1.08E-11	0.00E+00	3.05E-08	8.00E-10	3.37E-09	1.61E-12	0.00E+00	4.17E-09	4.91E-10	1.55E-09	3.74E-13	0.00E+00	2.04E-09
2229	420027.96	3734703.28	5.81E-09	2.45E-08	1.08E-11	0.00E+00	3.04E-08	7.96E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.89E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
2230	420025.45	3734694.21	5.80E-09	2.45E-08	1.08E-11	0.00E+00	3.03E-08	7.95E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.88E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
2231	420022.94	3734685.14	5.80E-09	2.45E-08	1.08E-11	0.00E+00	3.03E-08	7.95E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.88E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
2232	420020.42	3734676.08	5.80E-09	2.45E-08	1.08E-11	0.00E+00	3.03E-08	7.95E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.88E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
2233	420017.91	3734667.01	5.81E-09	2.45E-08	1.08E-11	0.00E+00	3.04E-08	7.96E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.89E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
2234	420015.4	3734657.95	5.83E-09	2.46E-08	1.08E-11	0.00E+00	3.05E-08	8.00E-10	3.37E-09	1.61E-12	0.00E+00	4.17E-09	4.91E-10	1.55E-09	3.74E-13	0.00E+00	2.04E-09
2235	420012.88	3734648.88	5.83E-09	2.46E-08	1.08E-11	0.00E+00	3.05E-08	8.00E-10	3.37E-09	1.61E-12	0.00E+00	4.17E-09	4.91E-10	1.55E-09	3.74E-13	0.00E+00	2.04E-09
2236	420010.37	3734639.82	5.82E-09	2.46E-08	1.08E-11	0.00E+00	3.04E-08	7.98E-10	3.36E-09	1.61E-12	0.00E+00	4.16E-09	4.90E-10	1.54E-09	3.73E-13	0.00E+00	2.03E-09
2237	420007.85	3734630.75	5.80E-09	2.45E-08	1.08E-11	0.00E+00	3.03E-08	7.95E-10	3.35E-09	1.60E-12	0.00E+00	4.15E-09	4.88E-10	1.54E-09	3.72E-13	0.00E+00	2.03E-09
2238	420005.34	3734621.69	5.79E-09	2.44E-08	1.07E-11	0.00E+00	3.02E-08	7.93E-10	3.34E-09	1.60E-12	0.00E+00	4.14E-09	4.87E-10	1.54E-09	3.71E-13	0.00E+00	2.02E-09
2239	420002.83	3734612.62	5.77E-09	2.44E-08	1.07E-11	0.00E+00	3.01E-08	7.91E-10	3.33E-09	1.59E-12	0.00E+00	4.12E-09	4.85E-10	1.53E-09	3.69E-13	0.00E+00	2.02E-09
2240	420000.31	3734603.56	5.75E-09	2.43E-08	1.07E-11	0.00E+00	3.00E-08	7.88E-10	3.32E-09	1.59E-12	0.00E+00	4.11E-09	4.84E-10	1.53E-09	3.68E-13	0.00E+00	2.01E-09
2241	419997.8	3734594.49	5.73E-09	2.42E-08	1.06E-11	0.00E+00	2.99E-08	7.86E-10	3.31E-09	1.58E-12	0.00E+00	4.10E-09	4.82E-10	1.52E-09	3.67E-13	0.00E+00	2.00E-09
2242	419995.29	3734585.43	5.71E-09	2.41E-08	1.06E-11	0.00E+00	2.98E-08	7.83E-10	3.30E-09	1.58E-12	0.00E+00	4.08E-09	4.81E-10	1.52E-09	3.66E-13	0.00E+00	2.00E-09
2243	419992.77	3734576.36	5.69E-09	2.40E-08	1.05E-11	0.00E+00	2.97E-08	7.80E-10	3.29E-09	1.57E-12	0.00E+00	4.07E-09	4.79E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
2244	419990.26	3734567.3	5.68E-09	2.40E-08	1.05E-11	0.00E+00	2.96E-08	7.78E-10	3.28E-09	1.57E-12	0.00E+00	4.06E-09	4.77E-10	1.51E-09	3.64E-13	0.00E+00	1.98E-09
2245	419982.72	3734540.1	5.62E-09	2.37E-08	1.04E-11	0.00E+00	2.94E-08	7.71E-10	3.25E-09	1.55E-12	0.00E+00	4.02E-09	4.73E-10	1.49E-09	3.60E-13	0.00E+00	1.97E-09
2246	419980.2	3734531.04	5.61E-09	2.37E-08	1.04E-11	0.00E+00	2.93E-08	7.69E-10	3.24E-09	1.55E-12	0.00E+00	4.01E-09	4.72E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
2247	419977.69	3734521.97	5.60E-09	2.36E-08	1.04E-11	0.00E+00	2.92E-08	7.67E-10	3.23E-09	1.54E-12	0.00E+00	4.00E-09	4.71E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
2248	419975.18	3734512.9	5.58E-09	2.36E-08	1.03E-11	0.00E+00	2.92E-08	7.65E-10	3.22E-09	1.54E-12	0.00E+00	3.99E-09	4.70E-10	1.48E-09	3.58E-13	0.00E+00	1.95E-09
2249	419972.66	3734503.84	5.54E-09	2.34E-08	1.03E-11	0.00E+00	2.90E-08	7.60E-10	3.20E-09	1.53E-12	0.00E+00	3.96E-09	4.66E-10	1.47E-09	3.55E-13	0.00E+00	1.94E-09
2250	419970.15	3734494.77	5.51E-09	2.33E-08	1.02E-11	0.00E+00	2.88E-08	7.55E-10	3.18E-09	1.52E-12	0.00E+00	3.94E-09	4.63E-10	1.46E-09	3.53E-13	0.00E+00	1.93E-09
2251	419967.64	3734485.71	5.49E-09	2.32E-08	1.02E-11	0.00E+00	2.87E-08	7.52E-10	3.17E-09	1.51E-12	0.00E+00	3.92E-09	4.62E-10	1.46E-09	3.51E-13	0.00E+00	1.92E-09
2252	419965.12	3734476.64	5.48E-09	2.32E-08	1.02E-11	0.00E+00	2.86E-08	7.52E-10	3.17E-09	1.51E-12	0.00E+00	3.92E-09	4.61E-10	1.46E-09	3.51E-13	0.00E+00	1.92E-09
2253	419962.61	3734467.58	5.48E-09	2.31E-08	1.01E-11	0.00E+00	2.86E-08	7.51E-10	3.16E-09	1.51E-12	0.00E+00	3.91E-09	4.61E-10	1.45E-09	3.51E-13	0.00E+00	1.91E-09
2254	419955.07	3734440.38	5.48E-09	2.31E-08	1.02E-11	0.00E+00	2.86E-08	7.51E-10	3.16E-09	1.51E-12	0.00E+00	3.92E-09	4.61E-10	1.45E-09	3.51E-13	0.00E+00	1.92E-09
2255	419952.55	3734431.32	5.47E-09	2.31E-08	1.01E-11	0.00E+00	2.86E-08	7.50E-10	3.16E-09	1.51E-12	0.00E+00	3.91E-09	4.60E-10	1.45E-09	3.50E-13	0.00E+00	1.91E-09
2256	419950.04	3734422.25	5.46E-09	2.30E-08	1.01E-11	0.00E+00	2.85E-08	7.48E-10	3.15E-09	1.51E-12	0.00E+00	3.90E-09	4.59E-10	1.45E-09	3.49E-13	0.00E+00	1.91E-09
2257	419947.53	3734413.19	5.44E-09	2.30E-08	1.01E-11	0.00E+00	2.84E-08	7.46E-10	3.14E-09	1.50E-12	0.00E+00	3.89E-09	4.58E-10	1.44E-09	3.49E-13	0.00E+00	1.90E-09
2258	420293.68	3735001	8.89E-09	3.76E-08	1.65E-11	0.00E+00	4.65E-08	1.22E-09	5.14E-09	2.45E-12	0.00E+00	6.36E-09	7.48E-10	2.36E-09	5.70E-13	0.00E+00	3.11E-09
2259	420302.03	3735005.84	9.01E-09	3.80E-08	1.67E-11	0.00E+00	4.71E-08	1.23E-09	5.20E-09	2.49E-12	0.00E+00	6.44E-09	7.58E-10	2.39E-09	5.77E-13	0.00E+00	3.15E-09
2260	420310.37	3735010.68	9.12E-09	3.85E-08	1.69E-11	0.00E+00	4.76E-08	1.25E-09	5.26E-09	2.52E-12	0.00E+00	6.52E-09	7.67E-10	2.42E-09	5.84E-13	0.00E+00	3.19E-09
2261	420318.71	3735015.52	9.21E-09	3.89E-08	1.71E-11	0.00E+00	4.81E-08	1.26E-09	5.32E-09	2.54E-12	0.00E+00	6.58E-09	7.75E-10	2.44E-09	5.90E-13	0.00E+00	3.22E-09
2262	420327.05	3735020.36	9.30E-09	3.93E-08	1.72E-11	0.00E+00	4.86E-08	1.27E-09	5.37E-09	2.57E-12	0.00E+00	6.65E-09	7.82E-10	2.47E-09	5.96E-13	0.00E+00	3.25E-09
2263	420608.14	3734421.23	4.83E-07	2.04E-06	8.95E-10	0.00E+00	2.52E-06	6.63E-08	2.79E-07	1.33E-10	0.00E+00	3.45E-07	4.07E-08	1.28E-07	3.10E-11	0.00E+00	1.69E-07
2264	420577.71	3734436.86	3.03E-07	1.28E-06	5.61E-10	0.00E+00	1.58E-06	4.15E-08	1.75E-07	8.35E-11	0.00E+00	2.16E-07	2.55E-08	8.03E-08	1.94E-11	0.00E+00	1.06E-07
2265	420538.38	3734411.13	1.66E-07	7.01E-07	3.08E-10	0.00E+00	8.68E-07	2.28E-08	9.59E-08	4.58E-11	0.00E+00	1.19E-07	1.40E-08	4.41E-08	1.06E-11	0.00E+00	5.81E-08
2266	420518.39	3734410.6	1.31E-07	5.52E-07	2.42E-10	0.00E+00	6.83E-07	1.79E-08	7.55E-08	3.61E-11	0.00E+00	9.35E-08	1.10E-08	3.47E-08	8.38E-12	0.00E+00	4.57E-08
2267	420498.39	3734410.06	1.05E-07	4.43E-07	1.94E-10	0.00E+00	5.48E-07	1.44E-08	6.06E-08	2.90E-11	0.00E+00	7.50E-08	8.83E-09	2.78E-08	6.72E-12	0.00E+00	3.67E-08
2268	420478.4	3734409.53	8.55E-08	3.61E-07	1.58E-10	0.00E+00	4.47E-07	1.17E-08	4.94E-08	2.36E-11	0.00E+00	6.11E-08	7.20E-09	2.27E-08	5.48E-12	0.00E+00	2.99E-08
2269	420458.41	3734408.99	7.07E-08	2.99E-07	1.31E-10	0.00E+00	3.69E-07	9.69E-09	4.08E-08	1.95E-11	0.00E+00	5.05E-08	5.95E-09	1.88E-08	4.53E-12	0.00E+00	2.47E-08
2270	420418.42	3734407.92	5.02E-08	2.12E-07	9.29E-11	0.00E+00	2.62E-07	6.88E-09	2.90E-08	1.38E-11	0.00E+00	3.59E-08	4.22E-09	1.33E-08	3.21E-12	0.00E+00	1.75E-08
2271	420398.43	3734407.39	4.30E-08	1.81E-07	7.96E-11	0.00E+00	2.24E-07	5.89E-09	2.48E-08	1.19E-11	0.00E+00	3.07E-08	3.61E-09	1.14E-08	2.75E-12	0.00E+00	1.50E-08
2272	420378.44	3734406.85	3.71E-08	1.57E-07	6.88E-11	0.00E+00	1.94E-07	5.09E-09	2.14E-08	1.02E-11	0.00E+00	2.65E-08	3.12E-09	9.85E-09	2.38E-12	0.00E+00	1.30E-08
2273	420338.45	3734405.78	2.84E-08	1.20E-07	5.26E-11	0.00E+00	1.48E-07	3.89E-09	1.64E-08	7.84E-12	0.00E+00	2.03E-08	2.39E-09	7.54E-09	1.82E-12	0.00E+00	9.93E-09
2274	420338.01	3734422.22	2.80E-08	1.18E-07	5.19E-11	0.00E+00	1.46E-07	3.84E-09	1.62E-08	7.73E-12	0.00E+00	2.00E-08	2.36E-09	7.43E-09	1.79E-12	0.00E+00	9.79E-09
2275	420298.25	3734412.93	2.22E-08	9.37E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.12E-12	0.00E+00	1.59E-08	1.87E-09	5.89E-09	1.42E-12	0.00E+00	7.75E-09
2276	420297.81	3734429.37	2.19E-08	9.24E-08	4.05E-11	0.00E+00	1.14E-07	3.00E-09	1.26E-08	6.04E-12	0.00E+00	1.56E-08	1.84E-09	5.81E-09	1.40E-12	0.00E+00	7.65E-09
2277	420258.26	3734411.86	1.78E-08	7.53E-08	3.31E-11	0.00E+00	9.32E-08	2.45E-09	1.03E-08	4.92E-12	0.00E+00	1.28E-08	1.50E-09	4.73E-09	1.14E-12	0.00E+00	6.24E-09
2278	420257.82	3734428.3	1.76E-08	7.43E-08	3.26E-11	0.00E+00	9.20E-08	2.41E-09	1.02E-08	4.86E-12	0.00E+00	1.26E-08	1.48E-09	4.67E-09	1.13E-12	0.00E+00	6.15E-09
2279	420218.27	3734410.79	1.46E-08	6.18E-08	2.71E-11	0.00E+00	7.65E-08	2.01E-09	8.45E-09	4.04E-12	0.00E+00	1.05E-08	1.23E-09	3.88E-09	9.38E-13	0.00E+00	5.12E-09
2280	420217.83	3734427.23	1.45E-08	6.10E-08	2.68E-11	0.00E+00	7.55E-08	1.98E-09	8.35E-09	3.99E-12	0.00E+00	1.03E-08	1.22E-09	3.84E-09	9.26E-13	0.00E+00	5.05E-09
2281	420178.29	3734409.72	1.22E-08	5.16E-08	2.26E-11	0.00E+00	6.38E-08	1.67E-09	7.05E-09	3.37E-12	0.00E+00	8.73E-09	1.03E-09	3.24E-09	7.82E-13	0.00E+00	4.27E-09
2282	420177.85	3734426.16	1.21E-08	5.10E-08	2.24E-11	0.00E+00	6.31E-08	1.66E-09	6.97E-09	3.33E-12	0.00E+00	8.63E-09	1.02E-09	3.20E-09	7.74E-13	0.00E+00	4.22E-09
2283	420138.3	3734408.65	1.03E-08	4.37E-08	1.92E-11	0.00E+00	5.40E-08	1.42E-09	5.97E-09	2.85E-12	0.00E+00	7.39E-09	8.70E-10	2.74E-09	6.62E-13	0.00E+00	3.61E-09
2284	420137.86	3734425.09	1.02E-08	4.32E-08	1.90E-11	0.00E+00	5.34E-08	1.40E-09	5.91E-09	2.82E-12	0.00E+00	7.31E-09	8.60E-10	2.71E-09	6.55E-13	0.00E+00	3.58E-09
2285	420098.32	3734407.58	8.86E-09	3.74E-08	1.64E-11	0.00E+00	4.63E-08	1.22E-09	5.12E-09	2.45E-12	0.00E+00	6.34E-09	7.46E-10	2.35E-09	5.68E-13	0.00E+00	3.10E-09
2286	420097.88	3734424.02	8.76E-09	3.70E-08	1.62E-11	0.00E+00	4.58E-08	1.20E-09	5.06E-09	2.42E-12	0.00E+00	6.26E-09	7.37E-10	2.33E-09	5.61E-13	0.00E+00	3.06E-09
2287	420058.33	3734406.51	7.69E-09	3.25E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.44E-09	2.12E-12	0.00E+00	5.49E-09	6.47E-10	2.04E-09	4.92E-13	0.00E+00	2.69E-09
2288	420057.89	3734422.95	7.60E-09	3.21E-08	1.41E-11	0.00E+00	3.97E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.43E-09	6.39E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09
2289	420018.35	3734405.44	6.74E-09	2.85E-08	1.25E-11	0.00E+00	3.52E-08	9.24E-10	3.89E-09	1.86E-12	0.00E+00	4.82E-09	5.67E-10	1.79E-09	4.32E-13	0.00E+00	2.36E-09
2290	420017.91	3734421.88	6.65E-09	2.81E-08	1.23E-11	0.00E+00	3.47E-08	9.12E-10	3.84E-09	1.84E-12	0.00E+00	4.75E-09	5.60E-10	1.77E-09	4.26E-13	0.00E+00	2.33E-09
2291	419978.58	3734396.15	6.00E-09	2.53E-08	1.11E-11	0.00E+00	3.13E-08	8.22E-10	3.46E-09	1.66E-12	0.00E+00	4.29E-09	5.05E-10	1.59E-09	3.84E-13	0.00E+00	2.10E-09
2292	419978.14	3734412.59	5.94E-09	2.51E-08	1.10E-11	0.00E+00	3.10E-08	8.14E-10	3.43E-09	1.64E-12	0.00E+00	4.25E-09	5.00E-10	1.58E-09	3.81E-13	0.00E+00	2.08E-09
2293	420667.67	3734449.16	3.17E-06	1.34E-05	5.88E-09	0.00E+00	1.66E-05	4.35E-07	1.83E-06	8.75E-10	0.00E+00	2.27E-06	2.67E-07	8.42E-07	2.03E-10	0.00E+00	1.11E-06
2294	420667.67	3734458.78	3.44E-06	1.45E-05	6.38E-09	0.00E+00	1.80E-05	4.72E-07	1.99E-06	9.50E-10	0.00E+00	2.46E-06	2.90E-07	9.13E-07	2.20E-10	0.00E+00	1.20E-06
2295	420667.67	3734468.4	3.69E-06	1.56E-05	6.83E-09	0.00E+00	1.93E-05	5.06E-07	2.13E-06	1.02E-09	0.00E+00	2.64E-06	3.10E-07	9.79E-07	2.36E-10	0.00E+00	1.29E-06
2296	420667.67	3734478.02	3.87E-06	1.63E-05	7.17E-09	0.00E+00	2.02E-05	5.31E-07	2.24E-06	1.07E-09	0.00E+00	2.77E-06	3.26E-07	1.03E-06	2.48E-10	0.00E+00	1.35E-06

2297	420667.67	3734487.64	3.97E-06	1.68E-05	7.36E-09	0.00E+00	2.08E-05	5.45E-07	2.29E-06	1.10E-09	0.00E+00	2.84E-06	3.34E-07	1.05E-06	2.55E-10	0.00E+00	1.39E-06
2298	420667.67	3734497.26	3.97E-06	1.68E-05	7.36E-09	0.00E+00	2.07E-05	5.44E-07	2.29E-06	1.10E-09	0.00E+00	2.84E-06	3.34E-07	1.05E-06	2.54E-10	0.00E+00	1.39E-06
2299	420667.67	3734506.88	3.85E-06	1.62E-05	7.13E-09	0.00E+00	2.01E-05	5.27E-07	2.22E-06	1.06E-09	0.00E+00	2.75E-06	3.24E-07	1.02E-06	2.46E-10	0.00E+00	1.34E-06
2300	420667.67	3734516.5	3.59E-06	1.51E-05	6.64E-09	0.00E+00	1.87E-05	4.92E-07	2.07E-06	9.89E-10	0.00E+00	2.56E-06	3.02E-07	9.52E-07	2.30E-10	0.00E+00	1.25E-06
2301	420667.67	3734526.12	3.16E-06	1.34E-05	5.86E-09	0.00E+00	1.65E-05	4.34E-07	1.83E-06	8.73E-10	0.00E+00	2.26E-06	2.66E-07	8.40E-07	2.03E-10	0.00E+00	1.11E-06
2302	420667.67	3734535.74	2.69E-06	1.14E-05	4.98E-09	0.00E+00	1.40E-05	3.69E-07	1.55E-06	7.42E-10	0.00E+00	1.92E-06	2.26E-07	7.13E-07	1.72E-10	0.00E+00	9.40E-07
2303	420657.67	3734468.4	2.41E-06	1.02E-05	4.47E-09	0.00E+00	1.26E-05	3.30E-07	1.39E-06	6.65E-10	0.00E+00	1.72E-06	2.03E-07	6.40E-07	1.54E-10	0.00E+00	8.42E-07
2304	420657.67	3734478.02	2.50E-06	1.05E-05	4.62E-09	0.00E+00	1.30E-05	3.42E-07	1.44E-06	6.89E-10	0.00E+00	1.78E-06	2.10E-07	6.62E-07	1.60E-10	0.00E+00	8.72E-07
2305	420657.67	3734487.64	2.52E-06	1.07E-05	4.68E-09	0.00E+00	1.32E-05	3.46E-07	1.46E-06	6.97E-10	0.00E+00	1.80E-06	2.12E-07	6.70E-07	1.62E-10	0.00E+00	8.82E-07
2306	420657.67	3734497.26	2.49E-06	1.05E-05	4.62E-09	0.00E+00	1.30E-05	3.42E-07	1.44E-06	6.88E-10	0.00E+00	1.78E-06	2.10E-07	6.61E-07	1.60E-10	0.00E+00	8.71E-07
2307	420657.67	3734506.88	2.39E-06	1.01E-05	4.42E-09	0.00E+00	1.25E-05	3.27E-07	1.38E-06	6.59E-10	0.00E+00	1.71E-06	2.01E-07	6.34E-07	1.53E-10	0.00E+00	8.35E-07
2308	420657.67	3734516.5	2.22E-06	9.36E-06	4.11E-09	0.00E+00	1.16E-05	3.04E-07	1.28E-06	6.11E-10	0.00E+00	1.58E-06	1.86E-07	5.88E-07	1.42E-10	0.00E+00	7.75E-07
2309	420657.67	3734526.12	1.98E-06	8.37E-06	3.67E-09	0.00E+00	1.04E-05	2.72E-07	1.14E-06	5.47E-10	0.00E+00	1.42E-06	1.67E-07	5.26E-07	1.27E-10	0.00E+00	6.93E-07
2310	420657.67	3734535.74	1.73E-06	7.30E-06	3.20E-09	0.00E+00	9.03E-06	2.37E-07	9.98E-07	4.77E-10	0.00E+00	1.24E-06	1.45E-07	4.59E-07	1.11E-10	0.00E+00	6.04E-07
2311	420647.67	3734487.64	1.71E-06	7.21E-06	3.17E-09	0.00E+00	8.92E-06	2.34E-07	9.86E-07	4.71E-10	0.00E+00	1.22E-06	1.44E-07	4.53E-07	1.09E-10	0.00E+00	5.97E-07
2312	420647.67	3734497.26	1.67E-06	7.06E-06	3.10E-09	0.00E+00	8.73E-06	2.29E-07	9.65E-07	4.61E-10	0.00E+00	1.19E-06	1.41E-07	4.44E-07	1.07E-10	0.00E+00	5.84E-07
2313	420647.67	3734506.88	1.60E-06	6.74E-06	2.96E-09	0.00E+00	8.34E-06	2.19E-07	9.21E-07	4.40E-10	0.00E+00	1.14E-06	1.34E-07	4.23E-07	1.02E-10	0.00E+00	5.58E-07
2314	420647.67	3734516.5	1.49E-06	6.27E-06	2.75E-09	0.00E+00	7.76E-06	2.04E-07	8.58E-07	4.10E-10	0.00E+00	1.06E-06	1.25E-07	3.94E-07	9.52E-11	0.00E+00	5.19E-07
2315	420647.67	3734526.12	1.35E-06	5.70E-06	2.50E-09	0.00E+00	7.05E-06	1.85E-07	7.79E-07	3.72E-10	0.00E+00	9.64E-07	1.14E-07	3.58E-07	8.64E-11	0.00E+00	4.72E-07
2316	420647.67	3734535.74	1.20E-06	5.09E-06	2.23E-09	0.00E+00	6.29E-06	1.65E-07	6.95E-07	3.32E-10	0.00E+00	8.61E-07	1.01E-07	3.20E-07	7.71E-11	0.00E+00	4.21E-07
2317	420617.67	3734506.88	6.51E-07	2.75E-06	1.21E-09	0.00E+00	3.40E-06	8.92E-08	3.76E-07	1.80E-10	0.00E+00	4.65E-07	5.47E-08	1.73E-07	4.17E-11	0.00E+00	2.27E-07
2318	420617.67	3734535.74	5.41E-07	2.28E-06	1.00E-09	0.00E+00	2.83E-06	7.42E-08	3.12E-07	1.49E-10	0.00E+00	3.87E-07	4.55E-08	1.44E-07	3.47E-11	0.00E+00	1.89E-07
2319	420607.67	3734526.12	4.66E-07	1.97E-06	8.63E-10	0.00E+00	2.43E-06	6.39E-08	2.69E-07	1.29E-10	0.00E+00	3.33E-07	3.92E-08	1.24E-07	2.98E-11	0.00E+00	1.63E-07
2320	420587.67	3734487.64	3.61E-07	1.52E-06	6.69E-10	0.00E+00	1.89E-06	4.95E-08	2.08E-07	9.96E-11	0.00E+00	2.58E-07	3.04E-08	9.58E-08	2.31E-11	0.00E+00	1.26E-07
2321	420587.67	3734535.74	3.02E-07	1.28E-06	5.60E-10	0.00E+00	1.58E-06	4.14E-08	1.74E-07	8.33E-11	0.00E+00	2.16E-07	2.54E-08	8.01E-08	1.93E-11	0.00E+00	1.06E-07
2322	420577.67	3734478.02	3.05E-07	1.29E-06	5.65E-10	0.00E+00	1.59E-06	4.18E-08	1.76E-07	8.42E-11	0.00E+00	2.18E-07	2.57E-08	8.10E-08	1.95E-11	0.00E+00	1.07E-07
2323	420577.67	3734506.88	2.86E-07	1.21E-06	5.29E-10	0.00E+00	1.49E-06	3.92E-08	1.65E-07	7.88E-11	0.00E+00	2.04E-07	2.40E-08	7.58E-08	1.83E-11	0.00E+00	9.98E-08
2324	420557.67	3734487.64	2.16E-07	9.11E-07	4.00E-10	0.00E+00	1.13E-06	2.96E-08	1.25E-07	5.96E-11	0.00E+00	1.54E-07	1.82E-08	5.73E-08	1.38E-11	0.00E+00	7.54E-08
2325	420557.67	3734506.88	2.07E-07	8.73E-07	3.83E-10	0.00E+00	1.08E-06	2.83E-08	1.19E-07	5.71E-11	0.00E+00	1.48E-07	1.74E-08	5.49E-08	1.32E-11	0.00E+00	7.23E-08
2326	420517.67	3734468.4	1.28E-07	5.40E-07	2.37E-10	0.00E+00	6.68E-07	1.75E-08	7.39E-08	3.53E-11	0.00E+00	9.14E-08	1.08E-08	3.39E-08	8.19E-12	0.00E+00	4.47E-08
2327	420517.67	3734478.02	1.26E-07	5.34E-07	2.34E-10	0.00E+00	6.61E-07	1.73E-08	7.30E-08	3.49E-11	0.00E+00	9.04E-08	1.06E-08	3.36E-08	8.10E-12	0.00E+00	4.42E-08
2328	420497.67	3734478.02	1.00E-07	4.23E-07	1.86E-10	0.00E+00	5.23E-07	1.37E-08	5.78E-08	2.76E-11	0.00E+00	7.16E-08	8.42E-09	2.66E-08	6.41E-12	0.00E+00	3.50E-08
2329	420497.67	3734506.88	9.62E-08	4.06E-07	1.78E-10	0.00E+00	5.03E-07	1.32E-08	5.55E-08	2.65E-11	0.00E+00	6.88E-08	8.09E-09	2.55E-08	6.16E-12	0.00E+00	3.36E-08
2330	420497.67	3734535.74	9.12E-08	3.85E-07	1.69E-10	0.00E+00	4.76E-07	1.25E-08	5.27E-08	2.52E-11	0.00E+00	6.52E-08	7.67E-09	2.42E-08	5.84E-12	0.00E+00	3.19E-08
2331	420477.67	3734478.02	8.10E-08	3.42E-07	1.50E-10	0.00E+00	4.23E-07	1.11E-08	4.68E-08	2.23E-11	0.00E+00	5.79E-08	6.81E-09	2.15E-08	5.19E-12	0.00E+00	2.83E-08
2332	420477.67	3734516.5	7.70E-08	3.25E-07	1.43E-10	0.00E+00	4.02E-07	1.06E-08	4.45E-08	2.12E-11	0.00E+00	5.50E-08	6.48E-09	2.04E-08	4.93E-12	0.00E+00	2.69E-08
2333	420457.67	3734478.02	6.67E-08	2.82E-07	1.24E-10	0.00E+00	3.49E-07	9.14E-09	3.85E-08	1.84E-11	0.00E+00	4.77E-08	5.61E-09	1.77E-08	4.27E-12	0.00E+00	2.33E-08
2334	420417.67	3734478.02	4.72E-08	1.99E-07	8.75E-11	0.00E+00	2.47E-07	6.47E-09	2.73E-08	1.30E-11	0.00E+00	3.38E-08	3.97E-09	1.25E-08	3.02E-12	0.00E+00	1.65E-08
2335	420417.67	3734535.74	4.44E-08	1.87E-07	8.22E-11	0.00E+00	2.32E-07	6.08E-09	2.56E-08	1.22E-11	0.00E+00	3.17E-08	3.73E-09	1.18E-08	2.84E-12	0.00E+00	1.55E-08
2336	420397.67	3734478.02	4.04E-08	1.71E-07	7.49E-11	0.00E+00	2.11E-07	5.54E-09	2.33E-08	1.12E-11	0.00E+00	2.89E-08	3.40E-09	1.07E-08	2.59E-12	0.00E+00	1.41E-08
2337	420377.67	3734478.02	3.50E-08	1.48E-07	6.48E-11	0.00E+00	1.83E-07	4.79E-09	2.02E-08	9.65E-12	0.00E+00	2.50E-08	2.94E-09	9.28E-09	2.24E-12	0.00E+00	1.22E-08
2338	420337.67	3734439.54	2.76E-08	1.16E-07	5.11E-11	0.00E+00	1.44E-07	3.78E-09	1.59E-08	7.61E-12	0.00E+00	1.97E-08	2.32E-09	7.32E-09	1.77E-12	0.00E+00	9.64E-09
2339	420337.67	3734468.4	2.70E-08	1.14E-07	5.00E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.45E-12	0.00E+00	1.93E-08	2.27E-09	7.16E-09	1.73E-12	0.00E+00	9.44E-09
2340	420337.67	3734478.02	2.68E-08	1.13E-07	4.96E-11	0.00E+00	1.40E-07	3.67E-09	1.55E-08	7.39E-12	0.00E+00	1.92E-08	2.25E-09	7.11E-09	1.72E-12	0.00E+00	9.37E-09
2341	420257.67	3734439.54	1.75E-08	7.37E-08	3.24E-11	0.00E+00	9.12E-08	2.39E-09	1.01E-08	4.82E-12	0.00E+00	1.25E-08	1.47E-09	4.64E-09	1.12E-12	0.00E+00	6.11E-09
2342	420257.67	3734468.4	1.71E-08	7.23E-08	3.17E-11	0.00E+00	8.95E-08	2.35E-09	9.89E-09	4.73E-12	0.00E+00	1.22E-08	1.44E-09	4.55E-09	1.10E-12	0.00E+00	5.99E-09
2343	420257.67	3734478.02	1.70E-08	7.19E-08	3.15E-11	0.00E+00	8.89E-08	2.33E-09	9.83E-09	4.70E-12	0.00E+00	1.22E-08	1.43E-09	4.52E-09	1.09E-12	0.00E+00	5.95E-09
2344	420217.67	3734439.54	1.43E-08	6.05E-08	2.66E-11	0.00E+00	7.49E-08	1.96E-09	8.28E-09	3.96E-12	0.00E+00	1.02E-08	1.21E-09	3.80E-09	9.18E-13	0.00E+00	5.01E-09
2345	420217.67	3734468.4	1.41E-08	5.94E-08	2.61E-11	0.00E+00	7.35E-08	1.93E-09	8.12E-09	3.88E-12	0.00E+00	1.01E-08	1.18E-09	3.73E-09	9.01E-13	0.00E+00	4.92E-09
2346	420217.67	3734478.02	1.40E-08	5.90E-08	2.59E-11	0.00E+00	7.30E-08	1.92E-09	8.07E-09	3.86E-12	0.00E+00	9.99E-09	1.18E-09	3.71E-09	8.95E-13	0.00E+00	4.88E-09
2347	420177.67	3734439.54	1.20E-08	5.05E-08	2.22E-11	0.00E+00	6.25E-08	1.64E-09	6.91E-09	3.30E-12	0.00E+00	8.55E-09	1.01E-09	3.18E-09	7.67E-13	0.00E+00	4.18E-09
2348	420177.67	3734468.4	1.17E-08	4.96E-08	2.18E-11	0.00E+00	6.14E-08	1.61E-09	6.78E-09	3.24E-12	0.00E+00	8.40E-09	9.88E-10	3.12E-09	7.53E-13	0.00E+00	4.11E-09
2349	420177.67	3734478.02	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.74E-09	3.22E-12	0.00E+00	8.35E-09	9.82E-10	3.10E-09	7.48E-13	0.00E+00	4.08E-09
2350	420137.67	3734439.54	1.01E-08	4.28E-08	1.88E-11	0.00E+00	5.29E-08	1.39E-09	5.85E-09	2.80E-12	0.00E+00	7.24E-09	8.52E-10	2.69E-09	6.49E-13	0.00E+00	3.54E-09
2351	420137.67	3734468.4	9.95E-09	4.20E-08	1.84E-11	0.00E+00	5.20E-08	1.36E-09	5.74E-09	2.74E-12	0.00E+00	7.11E-09	8.37E-10	2.64E-09	6.37E-13	0.00E+00	3.48E-09
2352	420137.67	3734478.02	9.88E-09	4.17E-08	1.83E-11	0.00E+00	5.16E-08	1.35E-09	5.70E-09	2.73E-12	0.00E+00	7.06E-09	8.31E-10	2.62E-09	6.33E-13	0.00E+00	3.45E-09
2353	420137.67	3734487.64	9.82E-09	4.15E-08	1.82E-11	0.00E+00	5.13E-08	1.35E-09	5.67E-09	2.71E-12	0.00E+00	7.02E-09	8.26E-10	2.61E-09	6.29E-13	0.00E+00	3.43E-09
2354	420097.67	3734439.54	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.01E-09	2.39E-12	0.00E+00	6.20E-09	7.30E-10	2.30E-09	5.56E-13	0.00E+00	3.03E-09
2355	420097.67	3734468.4	8.37E-09	3.54E-08	1.55E-11	0.00E+00	4.37E-08	1.15E-09	4.83E-09	2.31E-12	0.00E+00	5.98E-09	7.04E-10	2.22E-09	5.36E-13	0.00E+00	2.93E-09
2356	420097.67	3734478.02	8.29E-09	3.50E-08	1.54E-11	0.00E+00	4.33E-08	1.14E-09	4.79E-09	2.29E-12	0.00E+00	5.93E-09	6.98E-10	2.20E-09	5.31E-13	0.00E+00	2.90E-09
2357	420097.67	3734487.64	8.22E-09	3.47E-08	1.52E-11	0.00E+00	4.29E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.92E-10	2.18E-09	5.27E-13	0.00E+00	2.87E-09
2358	420057.67	3734439.54	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.05E-12	0.00E+00	5.30E-09	6.24E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
2359	420057.67	3734468.4	7.14E-09	3.02E-08	1.32E-11	0.00E+00	3.73E-08	9.79E-10	4.12E-09	1.97E-12	0.00E+00	5.10E-09	6.01E-10	1.90E-09	4.58E-13	0.00E+00	2.50E-09
2360	420057.67	3734478.02	7.09E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.72E-10	4.09E-09	1.96E-12	0.00E+00	5.07E-09	5.96E-10	1.88E-09	4.54E-13	0.00E+00	2.48E-09
2361	420057.67	3734487.64	7.03E-09	2.97E-08	1.30E-11	0.00E+00	3.67E-08	9.64E-10	4.06E-09	1.94E-12	0.00E+00	5.03E-09	5.92E-10	1.87E-09	4.51E-13	0.00E+00	2.46E-09
2362	420017.67	3734439.54	6.49E-09	2.74E-08	1.20E-11	0.00E+00	3.39E-08	8.90E-10	3.75E-09	1.79E-12	0.00E+00	4.64E-09	5.46E-10	1.72E-09	4.16E-13	0.00E+00	2.27E-09
2363	420017.67	3734468.4	6.29E-09	2.65E-08	1.16E-11	0.00E+00	3.28E-08	8.62E-10	3.63E-09	1.73E-12	0.00E+00	4.49E-09	5.29E-10	1.67E-09	4.03E-13	0.00E+00	2.20E-09
2364	420017.67	3734478.02	6.24E-09	2.64E-08	1.16E-11	0.00E+00	3.26E-08	8.56E-10	3.60E-09	1.72E-12	0.00E+00	4.46E-09	5.25E-10	1.66E-09	4.00E-13	0.00E+00	2.18E-09
2365	420017.67	3734487.64	6.20E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.50E-10	3.58E-09	1.71E-12	0.00E+00	4.43E-09	5.22E-10	1.65E-09	3.97E-13	0.00E+00	2.17E-09
2366	419977.8	3734430.18	5.88E-09	2.48E-08	1.09E-11	0.00E+00	3.07E-08	8.06E-10	3.40E-09	1.62E-12	0.00E+00	4.20E-09	4.95E-10	1.56E-09	3.77E-13	0.00E+00	2.06E-09
2367	419977.67	3734439.54	5.82E-09	2.46E-08	1.08E-11	0.00E+00	3.04E-08	7.98E-10	3.36E-09	1.61E-12	0.00E+00	4.16E-09	4.90E-10	1.55E-09	3.73E-13	0.00E+00	2.04E-09
2368	419977.67	3734468.4	5.66E-09	2.39E-08	1.05E-11	0.00E+00	2.96E-08	7.76E-10	3.27E-09	1.56E-12	0.00E+00	4.05E-09	4.76E-10	1.50E-09	3.63E-13	0.00E+00	1.98E-09
2369	419977.67	3734478.02	5.63E-09	2.38E-08	1.04E-11	0.00E+00	2.94E-08	7.72E-10	3.25E-09	1.55E-12	0.00E+00	4.02E-09	4.74E-10	1.49E-09	3.61E-13	0.00E+00	1.97E-09
2370	419977.67	3734487.64	5.60E-09	2.36E-08	1.04E-11	0.00E+00	2.93E-08	7.68E-10	3.23E-09	1.55E-12	0.00E+00	4.00E-09	4.71E-10	1.49E-09	3.59E-13	0.00E+00	1.96E-09
2371	420671.09	3734572.86	1.52E-06	6.40E-06	2.81E-09	0.00E+00	7.92E-06	2.08E-07	8.75E-07	4.18E-10	0.00E+00	1.08E-06	1.28E-07	4.02E-07	9.71E-11	0.00E+00	5.30E-07
2372	420656.76	3734567.11	1.01E-06	4.26E-06	1.87E-09	0.00E+00	5.28E-06	1.38E-07	5.83E-07	2.79E-10	0.00E+00	7.22E-07	8.50E-08	2.68E-07	6.47E-11	0.00E+00	3.53E-07
2373	420705.81	3734575.34	6.49E-06	2.74E-05	1.20E-08	0.00E+00	3.39E-05	8.89E-07	3.75E-06	1.79E-09	0.00E+00	4.64E-06	5.46E-07	1.72E-06	4.16E-10	0.00E+00	2.27E-06
2374	420715	3734575.2	8.36E-06	3.53E-05	1.55E-08	0.00E+00	4.37E-05	1.15E-06	4.83E-06	2.31E-09	0.00E+00	5.98E-06	7.03E-07	2.22E-06	5.36E-10	0.00E+00	2.92E-06
2375	420724.18	3734575.07	9.75E-06	4.12E-05	1.81E-08	0.00E+00	5.10E-05	1.34E-06	5.63E-06	2.69E-09	0.00E+00	6.97E-06	8.21E-07	2.59E-06	6.25E-10	0.00E+00	3.41E-06
2376	420733.37	3734574.94	1.05E-05	4.42E-05	1.94E-08	0.00E+00	5.47E-05	1.43E-06	6.04E-06	2.89E-09	0.00E+00	7.48E-06	8.80E-07	2.78E-06	6.70E-10	0.00E+00	3.66E-06
2377	420671.23	3734582.86	1.27E-06	5.35E-06	2.35E-09	0.00E+00	6.62E-06	1.74E-07	7.31E-07	3.50E-10	0.00E+00	9.05E-07	1.07E-07	3.36E-07	8.11E-11	0.00E+00	4.43E-07
2378	420656.9	3734577.1	8.69E-07	3.67E-06	1.61E-09	0.00E+00	4.54E-06	1.19E-07	5.02E-07	2.40E-10	0.00E+00	6.21E-07	7.31E-08	2.31E-07	5.57E-11	0.00E+00	3.04E-07
2379	420639.59	3734564.23	6.68E-07	2.82E-06	1.24E-09	0.00E+00	3.49E-06	9.15E-08	3.86E-07	1.84E-10	0.00E+00	4.77E-07	5.62E-08	1.77E-07	4.28E-11	0.00E+00	2.33E-07
2380	420705.96	3734585.33	4.64E-06	1.96E-05	8.61E-09	0.00E+00	2.43E-05	6.37E-07	2.68E-06	1.28E-09	0.00E+00	3.32E-06	3.91E-07	1.23E-06	2.98E-10	0.00E+00	1.62E-06
2381	420715.14	3734585.2	5.97E-06	2.52E-05	1.11E-08	0.00E+00	3.12E-05	8.18E-07	3.44E-06	1.65E-09	0.00E+00	4.26E-06	5.02E-07	1.58E-06	3.82E-10	0.00E+00	2.09E-06
2382	420724.33	3734585.07	7.08E-06	2.99E-05	1.31E-08	0.00E+00	3.70E-05	9.71E-07	4.09E-06	1.96E-09	0.00E+00	5.06E-06	5.96E-07	1.88E-06	4.54E-10	0.00E+00	2.48E-06
2383	420733.52	3734584.93	7.83E-06	3.31E-05	1.45E-08	0.00E+00	4.09E-05	1.07E-06	4.52E-06	2.16E-09	0.00E+00	5.60E-06	6.59E-07	2.08E-06	5.02E-10	0.00E+00	2.74E-06
2384	420671.38	3734592.86	1.07E-06	4.53E-06	1.99E-09	0.00E+00	5.60E-06	1.47E-07	6.19E-07	2.96E-10	0.00E+00	7.67E-07	9.02E-08	2.85E-07	6.87E-11	0.00E+00	3.75E-07
2385	420657.05	3734587.1	7.55E-07	3.19E-06	1.40E-09	0.00E+00	3.94E-06	1.03E-07	4.36E-07	2.08E-10	0.00E+00	5.39E-07	6.35E-08	2.00E-07	4.83E-11	0.00E+00	2.64E-07
2386	420642.72	3734581.35	5.77E-07	2.43E-06	1.07E-09	0.00E+00	3.01E-06	7.90E-08	3.33E-07	1.59E-10	0.00E+00	4.12E-07	4.85E-08	1.53E-07	3.69E-11	0.00E+00	2.02E-07
2387	420632.57	3734571.35	5.26E-07	2.22E-06	9.74E-10	0.00E+00	2.75E-06	7.20E-08	3.03E-07	1.45E-10	0.00E+00	3.76E-07	4.42E-08	1.39E-07	3.37E-11	0.00E+00	1.84E-07
2388	420696.91	3734595.47	2.58E-06	1.09E-05	4.77E-09	0.00E+00	1.35E-05	3.53E-07	1.49E-06	7.11E-10	0.00E+00	1.84E-06	2.17E-07	6.84E-07	1.65E-10	0.00E+00	9.01E-07

2389	420706.1	3734595.33	3.48E-06	1.47E-05	6.44E-09	0.00E+00	1.82E-05	4.77E-07	2.01E-06	9.59E-10	0.00E+00	2.48E-06	2.92E-07	9.23E-07	2.23E-10	0.00E+00	1.22E-06
2390	420715.29	3734595.2	4.43E-06	1.87E-05	8.21E-09	0.00E+00	2.32E-05	6.08E-07	2.56E-06	1.22E-09	0.00E+00	3.17E-06	3.73E-07	1.18E-06	2.84E-10	0.00E+00	1.55E-06
2391	420724.47	3734595.07	5.31E-06	2.24E-05	9.83E-09	0.00E+00	2.77E-05	7.27E-07	3.06E-06	1.46E-09	0.00E+00	3.79E-06	4.46E-07	1.41E-06	3.40E-10	0.00E+00	1.85E-06
2392	420645.25	3734592.31	5.31E-07	2.24E-06	9.84E-10	0.00E+00	2.77E-06	7.28E-08	3.07E-07	1.47E-10	0.00E+00	3.80E-07	4.47E-08	1.41E-07	3.40E-11	0.00E+00	1.86E-07
2393	420625.06	3734577.29	4.26E-07	1.80E-06	7.90E-10	0.00E+00	2.23E-06	5.84E-08	2.46E-07	1.18E-10	0.00E+00	3.05E-07	3.59E-08	1.13E-07	2.73E-11	0.00E+00	1.49E-07
2394	420687.87	3734605.6	1.50E-06	6.34E-06	2.78E-09	0.00E+00	7.85E-06	2.06E-07	8.67E-07	4.15E-10	0.00E+00	1.07E-06	1.26E-07	3.99E-07	9.62E-11	0.00E+00	5.25E-07
2395	420697.06	3734605.47	2.04E-06	8.61E-06	3.78E-09	0.00E+00	1.07E-05	2.79E-07	1.18E-06	5.63E-10	0.00E+00	1.46E-06	1.72E-07	5.41E-07	1.31E-10	0.00E+00	7.13E-07
2396	420706.25	3734605.33	2.69E-06	1.14E-05	4.99E-09	0.00E+00	1.41E-05	3.69E-07	1.55E-06	7.43E-10	0.00E+00	1.92E-06	2.27E-07	7.15E-07	1.72E-10	0.00E+00	9.41E-07
2397	420715.43	3734605.2	3.40E-06	1.44E-05	6.30E-09	0.00E+00	1.78E-05	4.66E-07	1.96E-06	9.39E-10	0.00E+00	2.43E-06	2.86E-07	9.03E-07	2.18E-10	0.00E+00	1.19E-06
2398	420724.62	3734605.07	4.08E-06	1.72E-05	7.56E-09	0.00E+00	2.13E-05	5.60E-07	2.36E-06	1.13E-09	0.00E+00	2.92E-06	3.43E-07	1.08E-06	2.61E-10	0.00E+00	1.43E-06
2399	420637.89	3734599.29	4.23E-07	1.79E-06	7.83E-10	0.00E+00	2.21E-06	5.80E-08	2.44E-07	1.17E-10	0.00E+00	3.02E-07	3.56E-08	1.12E-07	2.71E-11	0.00E+00	1.48E-07
2400	420618.11	3734584.58	3.51E-07	1.48E-06	6.51E-10	0.00E+00	1.83E-06	4.81E-08	2.03E-07	9.69E-11	0.00E+00	2.51E-07	2.96E-08	9.32E-08	2.25E-11	0.00E+00	1.23E-07
2401	420611.29	3734568.3	3.64E-07	1.54E-06	6.75E-10	0.00E+00	1.90E-06	4.99E-08	2.10E-07	1.00E-10	0.00E+00	2.60E-07	3.06E-08	9.66E-08	2.33E-11	0.00E+00	1.27E-07
2402	420688.02	3734615.6	1.25E-06	5.27E-06	2.31E-09	0.00E+00	6.52E-06	1.71E-07	7.21E-07	3.45E-10	0.00E+00	8.93E-07	1.05E-07	3.31E-07	8.00E-11	0.00E+00	4.37E-07
2403	420697.2	3734615.46	1.65E-06	6.98E-06	3.06E-09	0.00E+00	8.64E-06	2.27E-07	9.55E-07	4.56E-10	0.00E+00	1.18E-06	1.39E-07	4.39E-07	1.06E-10	0.00E+00	5.78E-07
2404	420706.39	3734615.33	2.14E-06	9.04E-06	3.97E-09	0.00E+00	1.12E-05	2.94E-07	1.24E-06	5.91E-10	0.00E+00	1.53E-06	1.80E-07	5.68E-07	1.37E-10	0.00E+00	7.49E-07
2405	420715.58	3734615.2	2.68E-06	1.13E-05	4.96E-09	0.00E+00	1.40E-05	3.67E-07	1.55E-06	7.39E-10	0.00E+00	1.92E-06	2.25E-07	7.11E-07	1.72E-10	0.00E+00	9.37E-07
2406	420724.76	3734615.06	3.21E-06	1.36E-05	5.96E-09	0.00E+00	1.68E-05	4.41E-07	1.86E-06	8.87E-10	0.00E+00	2.30E-06	2.70E-07	8.53E-07	2.06E-10	0.00E+00	1.12E-06
2407	420638.67	3734609.55	3.83E-07	1.62E-06	7.10E-10	0.00E+00	2.00E-06	5.25E-08	2.21E-07	1.06E-10	0.00E+00	2.74E-07	3.22E-08	1.02E-07	2.45E-11	0.00E+00	1.34E-07
2408	420622.55	3734603.08	3.14E-07	1.33E-06	5.82E-10	0.00E+00	1.64E-06	4.31E-08	1.81E-07	8.67E-11	0.00E+00	2.25E-07	2.64E-08	8.34E-08	2.01E-11	0.00E+00	1.10E-07
2409	420611.14	3734591.83	2.94E-07	1.24E-06	5.45E-10	0.00E+00	1.54E-06	4.03E-08	1.70E-07	8.12E-11	0.00E+00	2.10E-07	2.48E-08	7.81E-08	1.89E-11	0.00E+00	1.03E-07
2410	420604.43	3734575.8	3.05E-07	1.29E-06	5.65E-10	0.00E+00	1.59E-06	4.18E-08	1.76E-07	8.42E-11	0.00E+00	2.18E-07	2.57E-08	8.09E-08	1.95E-11	0.00E+00	1.07E-07
2411	420688.16	3734625.6	1.05E-06	4.45E-06	1.95E-09	0.00E+00	5.51E-06	1.44E-07	6.08E-07	2.91E-10	0.00E+00	7.53E-07	8.87E-08	2.80E-07	6.75E-11	0.00E+00	3.68E-07
2412	420697.35	3734625.46	1.37E-06	5.77E-06	2.53E-09	0.00E+00	7.14E-06	1.87E-07	7.89E-07	3.77E-10	0.00E+00	9.77E-07	1.15E-07	3.63E-07	8.75E-11	0.00E+00	4.78E-07
2413	420706.54	3734625.33	1.74E-06	7.35E-06	3.23E-09	0.00E+00	9.10E-06	2.39E-07	1.01E-06	4.81E-10	0.00E+00	1.24E-06	1.47E-07	4.62E-07	1.12E-10	0.00E+00	6.09E-07
2414	420715.72	3734625.2	2.16E-06	9.11E-06	4.00E-09	0.00E+00	1.13E-05	2.96E-07	1.25E-06	5.95E-10	0.00E+00	1.54E-06	1.81E-07	5.72E-07	1.38E-10	0.00E+00	7.54E-07
2415	420724.91	3734625.06	2.58E-06	1.09E-05	4.78E-09	0.00E+00	1.35E-05	3.54E-07	1.49E-06	7.12E-10	0.00E+00	1.84E-06	2.17E-07	6.85E-07	1.65E-10	0.00E+00	9.02E-07
2416	420639.32	3734619.75	3.48E-07	1.47E-06	6.45E-10	0.00E+00	1.82E-06	4.77E-08	2.01E-07	9.60E-11	0.00E+00	2.49E-07	2.93E-08	9.23E-08	2.23E-11	0.00E+00	1.22E-07
2417	420623.4	3734613.35	2.88E-07	1.22E-06	5.34E-10	0.00E+00	1.50E-06	3.95E-08	1.66E-07	7.95E-11	0.00E+00	2.06E-07	2.42E-08	7.64E-08	1.84E-11	0.00E+00	1.01E-07
2418	420604.16	3734599.05	2.50E-07	1.06E-06	4.63E-10	0.00E+00	1.31E-06	3.43E-08	1.44E-07	6.90E-11	0.00E+00	1.79E-07	2.10E-08	6.63E-08	1.60E-11	0.00E+00	8.73E-08
2419	420597.54	3734583.22	2.59E-07	1.09E-06	4.80E-10	0.00E+00	1.35E-06	3.55E-08	1.49E-07	7.14E-11	0.00E+00	1.85E-07	2.18E-08	6.87E-08	1.66E-11	0.00E+00	9.05E-08
2420	420688.31	3734635.6	9.00E-07	3.80E-06	1.67E-09	0.00E+00	4.70E-06	1.23E-07	5.20E-07	2.48E-10	0.00E+00	6.43E-07	7.57E-08	2.39E-07	5.76E-11	0.00E+00	3.15E-07
2421	420697.49	3734635.46	1.15E-06	4.84E-06	2.12E-09	0.00E+00	5.99E-06	1.57E-07	6.62E-07	3.16E-10	0.00E+00	8.19E-07	9.65E-08	3.04E-07	7.34E-11	0.00E+00	4.01E-07
2422	420706.68	3734635.33	1.44E-06	6.08E-06	2.67E-09	0.00E+00	7.52E-06	1.97E-07	8.32E-07	3.97E-10	0.00E+00	1.03E-06	1.21E-07	3.82E-07	9.23E-11	0.00E+00	5.03E-07
2423	420715.87	3734635.2	1.77E-06	7.46E-06	3.27E-09	0.00E+00	9.23E-06	2.42E-07	1.02E-06	4.88E-10	0.00E+00	1.26E-06	1.49E-07	4.69E-07	1.13E-10	0.00E+00	6.18E-07
2424	420725.05	3734635.06	2.11E-06	8.90E-06	3.91E-09	0.00E+00	1.10E-05	2.89E-07	1.22E-06	5.82E-10	0.00E+00	1.51E-06	1.77E-07	5.59E-07	1.35E-10	0.00E+00	7.37E-07
2425	420671.6	3734652.59	4.72E-07	1.99E-06	8.75E-10	0.00E+00	2.47E-06	6.47E-08	2.73E-07	1.30E-10	0.00E+00	3.37E-07	3.97E-08	1.25E-07	3.02E-11	0.00E+00	1.65E-07
2426	420640.33	3734640.04	2.89E-07	1.22E-06	5.35E-10	0.00E+00	1.51E-06	3.96E-08	1.67E-07	7.97E-11	0.00E+00	2.06E-07	2.43E-08	7.67E-08	1.85E-11	0.00E+00	1.01E-07
2427	420624.7	3734633.76	2.42E-07	1.02E-06	4.49E-10	0.00E+00	1.26E-06	3.32E-08	1.40E-07	6.68E-11	0.00E+00	1.73E-07	2.04E-08	6.43E-08	1.55E-11	0.00E+00	8.46E-08
2428	420609.07	3734627.48	2.09E-07	8.82E-07	3.87E-10	0.00E+00	1.09E-06	2.86E-08	1.21E-07	5.76E-11	0.00E+00	1.49E-07	1.76E-08	5.54E-08	1.34E-11	0.00E+00	7.30E-08
2429	420590.18	3734613.44	1.86E-07	7.86E-07	3.45E-10	0.00E+00	9.73E-07	2.55E-08	1.07E-07	5.14E-11	0.00E+00	1.33E-07	1.57E-08	4.94E-08	1.19E-11	0.00E+00	6.51E-08
2430	420583.68	3734597.9	1.93E-07	8.13E-07	3.57E-10	0.00E+00	1.01E-06	2.64E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.11E-08	1.23E-11	0.00E+00	6.73E-08
2431	420573.93	3734574.59	1.97E-07	8.33E-07	3.66E-10	0.00E+00	1.03E-06	2.71E-08	1.14E-07	5.45E-11	0.00E+00	1.41E-07	1.66E-08	5.24E-08	1.26E-11	0.00E+00	6.90E-08
2432	420688.6	3734655.59	6.75E-07	2.85E-06	1.25E-09	0.00E+00	3.53E-06	9.26E-08	3.90E-07	1.86E-10	0.00E+00	4.83E-07	5.68E-08	1.79E-07	4.33E-11	0.00E+00	2.36E-07
2433	420697.78	3734655.46	8.37E-07	3.53E-06	1.55E-09	0.00E+00	4.37E-06	1.15E-07	4.83E-07	2.31E-10	0.00E+00	5.98E-07	7.04E-08	2.22E-07	5.36E-11	0.00E+00	2.93E-07
2434	420706.97	3734655.33	1.03E-06	4.34E-06	1.90E-09	0.00E+00	5.37E-06	1.41E-07	5.93E-07	2.83E-10	0.00E+00	7.34E-07	8.64E-08	2.73E-07	6.58E-11	0.00E+00	3.59E-07
2435	420716.16	3734655.19	1.24E-06	5.24E-06	2.30E-09	0.00E+00	6.48E-06	1.70E-07	7.16E-07	3.42E-10	0.00E+00	8.86E-07	1.04E-07	3.29E-07	7.95E-11	0.00E+00	4.34E-07
2436	420671.34	3734672.37	3.76E-07	1.59E-06	6.96E-10	0.00E+00	1.96E-06	5.15E-08	2.17E-07	1.04E-10	0.00E+00	2.69E-07	3.16E-08	9.97E-08	2.41E-11	0.00E+00	1.31E-07
2437	420654.63	3734665.66	2.90E-07	1.23E-06	5.38E-10	0.00E+00	1.52E-06	3.98E-08	1.68E-07	8.01E-11	0.00E+00	2.07E-07	2.44E-08	7.70E-08	1.86E-11	0.00E+00	1.01E-07
2438	420646.27	3734662.3	2.59E-07	1.09E-06	4.80E-10	0.00E+00	1.35E-06	3.55E-08	1.49E-07	7.14E-11	0.00E+00	1.85E-07	2.18E-08	6.87E-08	1.66E-11	0.00E+00	9.05E-08
2439	420629.55	3734655.59	2.13E-07	9.00E-07	3.95E-10	0.00E+00	1.11E-06	2.92E-08	1.23E-07	5.88E-11	0.00E+00	1.52E-07	1.79E-08	5.66E-08	1.37E-11	0.00E+00	7.45E-08
2440	420612.83	3734648.88	1.83E-07	7.71E-07	3.38E-10	0.00E+00	9.54E-07	2.50E-08	1.05E-07	5.04E-11	0.00E+00	1.31E-07	1.54E-08	4.85E-08	1.17E-11	0.00E+00	6.39E-08
2441	420604.47	3734645.52	1.71E-07	7.21E-07	3.16E-10	0.00E+00	8.92E-07	2.34E-08	9.85E-08	4.71E-11	0.00E+00	1.22E-07	1.44E-08	4.53E-08	1.09E-11	0.00E+00	5.97E-08
2442	420587.75	3734638.81	1.50E-07	6.34E-07	2.78E-10	0.00E+00	7.84E-07	2.06E-08	8.67E-08	4.14E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.62E-12	0.00E+00	5.25E-08
2443	420575.92	3734627.14	1.44E-07	6.08E-07	2.67E-10	0.00E+00	7.52E-07	1.97E-08	8.31E-08	3.97E-11	0.00E+00	1.03E-07	1.21E-08	3.82E-08	9.22E-12	0.00E+00	5.03E-08
2444	420572.44	3734618.83	1.47E-07	6.19E-07	2.72E-10	0.00E+00	7.66E-07	2.01E-08	8.46E-08	4.05E-11	0.00E+00	1.05E-07	1.23E-08	3.89E-08	9.39E-12	0.00E+00	5.12E-08
2445	420679.7	3734675.73	4.30E-07	1.82E-06	7.98E-10	0.00E+00	2.25E-06	5.90E-08	2.49E-07	1.19E-10	0.00E+00	3.08E-07	3.62E-08	1.14E-07	2.76E-11	0.00E+00	1.50E-07
2446	420688.89	3734675.59	5.23E-07	2.21E-06	9.69E-10	0.00E+00	2.73E-06	7.17E-08	3.02E-07	1.44E-10	0.00E+00	3.74E-07	4.40E-08	1.39E-07	3.35E-11	0.00E+00	1.83E-07
2447	420698.08	3734675.46	6.34E-07	2.68E-06	1.18E-09	0.00E+00	3.31E-06	8.70E-08	3.66E-07	1.75E-10	0.00E+00	4.53E-07	5.34E-08	1.68E-07	4.06E-11	0.00E+00	2.22E-07
2448	420707.26	3734675.33	7.64E-07	3.23E-06	1.42E-09	0.00E+00	3.99E-06	1.05E-07	4.41E-07	2.11E-10	0.00E+00	5.46E-07	6.43E-08	2.03E-07	4.90E-11	0.00E+00	2.67E-07
2449	420716.45	3734675.19	9.10E-07	3.84E-06	1.69E-09	0.00E+00	4.75E-06	1.25E-07	5.25E-07	2.51E-10	0.00E+00	6.50E-07	7.65E-08	2.41E-07	5.83E-11	0.00E+00	3.18E-07
2450	420671.8	3734692.44	3.08E-07	1.30E-06	5.71E-10	0.00E+00	1.61E-06	4.23E-08	1.78E-07	8.51E-11	0.00E+00	2.20E-07	2.59E-08	8.18E-08	1.97E-11	0.00E+00	1.08E-07
2451	420655.43	3734685.86	2.44E-07	1.03E-06	4.53E-10	0.00E+00	1.28E-06	3.35E-08	1.41E-07	6.74E-11	0.00E+00	1.75E-07	2.06E-08	6.49E-08	1.57E-11	0.00E+00	8.54E-08
2452	420639.05	3734679.28	2.00E-07	8.43E-07	3.70E-10	0.00E+00	1.04E-06	2.74E-08	1.15E-07	5.51E-11	0.00E+00	1.43E-07	1.68E-08	5.30E-08	1.28E-11	0.00E+00	6.98E-08
2453	420622.67	3734672.71	1.69E-07	7.15E-07	3.14E-10	0.00E+00	8.85E-07	2.32E-08	9.78E-08	4.67E-11	0.00E+00	1.21E-07	1.43E-08	4.50E-08	1.09E-11	0.00E+00	5.92E-08
2454	420606.3	3734666.13	1.48E-07	6.26E-07	2.75E-10	0.00E+00	7.75E-07	2.03E-08	8.56E-08	4.09E-11	0.00E+00	1.06E-07	1.25E-08	3.94E-08	9.50E-12	0.00E+00	5.18E-08
2455	420589.92	3734659.56	1.32E-07	5.58E-07	2.45E-10	0.00E+00	6.90E-07	1.81E-08	7.63E-08	3.64E-11	0.00E+00	9.44E-08	1.11E-08	3.50E-08	8.46E-12	0.00E+00	4.62E-08
2456	420573.55	3734652.98	1.18E-07	5.00E-07	2.19E-10	0.00E+00	6.19E-07	1.62E-08	6.84E-08	3.27E-11	0.00E+00	8.46E-08	9.96E-09	3.14E-08	7.58E-12	0.00E+00	4.14E-08
2457	420531.29	3734568.3	1.20E-07	5.07E-07	2.22E-10	0.00E+00	6.27E-07	1.65E-08	6.93E-08	3.31E-11	0.00E+00	8.58E-08	1.01E-08	3.18E-08	7.69E-12	0.00E+00	4.20E-08
2458	420689.18	3734695.59	4.15E-07	1.75E-06	7.69E-10	0.00E+00	2.17E-06	5.69E-08	2.40E-07	1.15E-10	0.00E+00	2.97E-07	3.49E-08	1.10E-07	2.66E-11	0.00E+00	1.45E-07
2459	420698.37	3734695.46	4.95E-07	2.09E-06	9.17E-10	0.00E+00	2.59E-06	6.78E-08	2.86E-07	1.37E-10	0.00E+00	3.54E-07	4.16E-08	1.31E-07	3.17E-11	0.00E+00	1.73E-07
2460	420707.55	3734695.32	5.87E-07	2.48E-06	1.09E-09	0.00E+00	3.07E-06	8.05E-08	3.39E-07	1.62E-10	0.00E+00	4.19E-07	4.94E-08	1.56E-07	3.76E-11	0.00E+00	2.05E-07
2461	420735.11	3734694.92	9.16E-07	3.87E-06	1.70E-09	0.00E+00	4.78E-06	1.26E-07	5.29E-07	2.53E-10	0.00E+00	6.55E-07	7.70E-08	2.43E-07	5.87E-11	0.00E+00	3.20E-07
2462	420672.22	3734712.48	2.56E-07	1.08E-06	4.75E-10	0.00E+00	1.34E-06	3.51E-08	1.48E-07	7.07E-11	0.00E+00	1.83E-07	2.16E-08	6.80E-08	1.64E-11	0.00E+00	8.96E-08
2463	420656.1	3734706.01	2.08E-07	8.77E-07	3.85E-10	0.00E+00	1.08E-06	2.85E-08	1.20E-07	5.73E-11	0.00E+00	1.48E-07	1.75E-08	5.51E-08	1.33E-11	0.00E+00	7.26E-08
2464	420639.98	3734699.54	1.72E-07	7.26E-07	3.19E-10	0.00E+00	8.98E-07	2.36E-08	9.93E-08	4.74E-11	0.00E+00	1.23E-07	1.45E-08	4.56E-08	1.10E-11	0.00E+00	6.01E-08
2465	420623.86	3734693.07	1.47E-07	6.21E-07	2.72E-10	0.00E+00	7.68E-07	2.01E-08	8.49E-08	4.06E-11	0.00E+00	1.05E-07	1.24E-08	3.90E-08	9.42E-12	0.00E+00	5.14E-08
2466	420607.74	3734686.59	1.29E-07	5.46E-07	2.40E-10	0.00E+00	6.76E-07	1.77E-08	7.47E-08	3.57E-11	0.00E+00	9.25E-08	1.09E-08	3.43E-08	8.29E-12	0.00E+00	4.52E-08
2467	420591.62	3734680.12	1.16E-07	4.90E-07	2.15E-10	0.00E+00	6.07E-07	1.59E-08	6.71E-08	3.21E-11	0.00E+00	8.30E-08	9.77E-09	3.08E-08	7.44E-12	0.00E+00	4.06E-08
2468	420575.5	3734673.65	1.05E-07	4.44E-07	1.95E-10	0.00E+00	5.50E-07	1.44E-08	6.08E-08	2.90E-11	0.00E+00	7.52E-08	8.85E-09	2.79E-08	6.74E-12	0.00E+00	3.68E-08
2469	420547.96	3734655.93	9.26E-08	3.91E-07	1.72E-10	0.00E+00	4.84E-07	1.27E-08	5.35E-08	2.56E-11	0.00E+00	6.62E-08	7.79E-09	2.46E-08	5.93E-12	0.00E+00	3.24E-08
2470	420689.47	3734715.59	3.36E-07	1.42E-06	6.22E-10	0.00E+00	1.75E-06	4.60E-08	1.94E-07	9.27E-11	0.00E+00	2.40E-07	2.83E-08	8.91E-08	2.15E-11	0.00E+00	1.17E-07
2471	420698.66	3734715.45	3.95E-07	1.67E-06	7.31E-10	0.00E+00	2.06E-06	5.41E-08	2.28E-07	1.09E-10	0.00E+00	2.82E-07	3.32E-08	1.05E-07	2.53E-11	0.00E+00	1.38E-07
2472	420707.84	3734715.32	4.62E-07	1.95E-06	8.56E-10	0.00E+00	2.41E-06	6.33E-08	2.67E-07	1.27E-10	0.00E+00	3.30E-07	3.89E-08	1.23E-07	2.96E-11	0.00E+00	1.61E-07
2473	420735.4	3734714.92	7.04E-07	2.97E-06	1.30E-09	0.00E+00	3.68E-06	9.65E-08	4.07E-07	1.94E-10	0.00E+00	5.03E-07	5.92E-08	1.87E-07	4.51E-11	0.00E+00	2.46E-07
2474	420663.71	3734728.95	1.93E-07	8.16E-07	3.58E-10	0.00E+00	1.01E-06	2.65E-08	1.12E-07	5.34E-11	0.00E+00	1.38E-07	1.63E-08	5.13E-08	1.24E-11	0.00E+00	6.76E-08
2475	420655.29	3734725.57	1.75E-07	7.39E-07	3.24E-10	0.00E+00	9.14E-07	2.40E-08	1.01E-07	4.83E-11	0.00E+00	1.25E-07	1.47E-08	4.64E-08	1.12E-11	0.00E+00	6.12E-08
2476	420646.86	3734722.18	1.59E-07	6.72E-07	2.95E-10	0.00E+00	8.32E-07	2.18E-08	9.19E-08	4.39E-11	0.00E+00	1.14E-07	1.34E-08	4.22E-08	1.02E-11	0.00E+00	5.56E-08
2477	420638.43	3734718.8	1.46E-07	6.15E-07	2.70E-10	0.00E+00	7.61E-07	2.00E-08	8.41E-08	4.02E-11	0.00E+00	1.04E-07	1.23E-08	3.87E-08	9.34E-12	0.00E+00	5.09E-08
2478	420630	3734715.41	1.34E-07	5.68E-07	2.49E-10	0.00E+00	7.02E-07	1.84E-08	7.76E-08	3.71E-11	0.00E+00	9.61E-08	1.13E-08	3.57E-08	8.61E-12	0.00E+00	4.70E-08
2479	420621.57	3734712.03	1.25E-07	5.28E-07	2.32E-10	0.00E+00	6.53E-07	1.71E-08	7.22E-08	3.45E-11	0.00E+00	8.94E-08	1.05E-08	3.32E-08	8.01E-12	0.00E+00	4.37E-08
2480	420613.14	3734708.64	1.17E-07	4.94E-07	2.17E-10	0.00E+00	6.12E-07	1.61E-08	6.76E-08	3.23E-11	0.00E+00	8.37E-08	9.85E-09	3.11E-08	7.50E-12	0.00E+00	4.09E-08

2481	420604.71	3734705.26	1.10E-07	4.66E-07	2.05E-10	0.00E+00	5.77E-07	1.51E-08	6.37E-08	3.05E-11	0.00E+00	7.89E-08	9.29E-09	2.93E-08	7.07E-12	0.00E+00	3.86E-08
2482	420596.28	3734701.87	1.05E-07	4.41E-07	1.94E-10	0.00E+00	5.46E-07	1.43E-08	6.04E-08	2.89E-11	0.00E+00	7.47E-08	8.80E-09	2.77E-08	6.70E-12	0.00E+00	3.65E-08
2483	420587.85	3734698.49	9.94E-08	4.20E-07	1.84E-10	0.00E+00	5.19E-07	1.36E-08	5.74E-08	2.74E-11	0.00E+00	7.10E-08	8.36E-09	2.64E-08	6.37E-12	0.00E+00	3.47E-08
2484	420579.42	3734695.11	9.48E-08	4.00E-07	1.76E-10	0.00E+00	4.95E-07	1.30E-08	5.47E-08	2.61E-11	0.00E+00	6.77E-08	7.97E-09	2.51E-08	6.07E-12	0.00E+00	3.31E-08
2485	420554.14	3734684.95	8.26E-08	3.49E-07	1.53E-10	0.00E+00	4.31E-07	1.13E-08	4.77E-08	2.28E-11	0.00E+00	5.90E-08	6.95E-09	2.19E-08	5.29E-12	0.00E+00	2.89E-08
2486	420545.71	3734681.57	7.89E-08	3.33E-07	1.46E-10	0.00E+00	4.12E-07	1.08E-08	4.55E-08	2.18E-11	0.00E+00	5.64E-08	6.64E-09	2.09E-08	5.05E-12	0.00E+00	2.76E-08
2487	420519.75	3734636.29	8.01E-08	3.38E-07	1.48E-10	0.00E+00	4.18E-07	1.10E-08	4.62E-08	2.21E-11	0.00E+00	5.72E-08	6.74E-09	2.13E-08	5.13E-12	0.00E+00	2.80E-08
2488	420502.21	3734594.39	8.08E-08	3.41E-07	1.50E-10	0.00E+00	4.22E-07	1.11E-08	4.66E-08	2.23E-11	0.00E+00	5.77E-08	6.80E-09	2.14E-08	5.18E-12	0.00E+00	2.82E-08
2489	420735.69	3734734.92	5.54E-07	2.34E-06	1.03E-09	0.00E+00	2.90E-06	7.60E-08	3.20E-07	1.53E-10	0.00E+00	3.96E-07	4.66E-08	1.47E-07	3.55E-11	0.00E+00	1.94E-07
2490	420606.2	3734725.74	9.78E-08	4.13E-07	1.81E-10	0.00E+00	5.11E-07	1.34E-08	5.65E-08	2.70E-11	0.00E+00	6.99E-08	8.23E-09	2.60E-08	6.27E-12	0.00E+00	3.42E-08
2491	420589.61	3734719.08	8.85E-08	3.74E-07	1.64E-10	0.00E+00	4.62E-07	1.21E-08	5.11E-08	2.44E-11	0.00E+00	6.32E-08	7.44E-09	2.35E-08	5.67E-12	0.00E+00	3.09E-08
2492	420573.02	3734712.41	8.10E-08	3.42E-07	1.50E-10	0.00E+00	4.23E-07	1.11E-08	4.68E-08	2.24E-11	0.00E+00	5.79E-08	6.82E-09	2.15E-08	5.19E-12	0.00E+00	2.83E-08
2493	420539.83	3734699.09	6.87E-08	2.90E-07	1.27E-10	0.00E+00	3.59E-07	9.42E-09	3.97E-08	1.90E-11	0.00E+00	4.91E-08	5.78E-09	1.82E-08	4.40E-12	0.00E+00	2.40E-08
2494	420519.79	3734684.18	6.42E-08	2.71E-07	1.19E-10	0.00E+00	3.35E-07	8.80E-09	3.71E-08	1.77E-11	0.00E+00	4.59E-08	5.40E-09	1.70E-08	4.11E-12	0.00E+00	2.24E-08
2495	420468.02	3734560.48	6.49E-08	2.74E-07	1.20E-10	0.00E+00	3.39E-07	8.89E-09	3.75E-08	1.79E-11	0.00E+00	4.64E-08	5.46E-09	1.72E-08	4.16E-12	0.00E+00	2.27E-08
2496	420735.98	3734754.92	4.45E-07	1.88E-06	8.24E-10	0.00E+00	2.32E-06	6.10E-08	2.57E-07	1.23E-10	0.00E+00	3.18E-07	3.74E-08	1.18E-07	2.85E-11	0.00E+00	1.55E-07
2497	420541.95	3734719.82	6.25E-08	2.64E-07	1.16E-10	0.00E+00	3.26E-07	8.57E-09	3.61E-08	1.72E-11	0.00E+00	4.47E-08	5.26E-09	1.66E-08	4.00E-12	0.00E+00	2.18E-08
2498	420525.58	3734713.25	5.80E-08	2.45E-07	1.07E-10	0.00E+00	3.03E-07	7.95E-09	3.35E-08	1.60E-11	0.00E+00	4.15E-08	4.88E-09	1.54E-08	3.72E-12	0.00E+00	2.03E-08
2499	420502.39	3734690.39	5.52E-08	2.33E-07	1.02E-10	0.00E+00	2.88E-07	7.57E-09	3.19E-08	1.52E-11	0.00E+00	3.95E-08	4.64E-09	1.47E-08	3.54E-12	0.00E+00	1.93E-08
2500	420495.58	3734674.11	5.63E-08	2.38E-07	1.04E-10	0.00E+00	2.94E-07	7.72E-09	3.25E-08	1.55E-11	0.00E+00	4.03E-08	4.74E-09	1.49E-08	3.61E-12	0.00E+00	1.97E-08
2501	420690.34	3734775.58	1.78E-07	7.51E-07	3.30E-10	0.00E+00	9.29E-07	2.44E-08	1.03E-07	4.91E-11	0.00E+00	1.27E-07	1.50E-08	4.72E-08	1.14E-11	0.00E+00	6.22E-08
2502	420699.53	3734775.45	2.06E-07	8.68E-07	3.81E-10	0.00E+00	1.07E-06	2.82E-08	1.19E-07	5.67E-11	0.00E+00	1.47E-07	1.73E-08	5.46E-08	1.32E-11	0.00E+00	7.19E-08
2503	420708.71	3734775.31	2.38E-07	1.00E-06	4.40E-10	0.00E+00	1.24E-06	3.26E-08	1.37E-07	6.56E-11	0.00E+00	1.70E-07	2.00E-08	6.31E-08	1.52E-11	0.00E+00	8.31E-08
2504	420736.27	3734774.91	3.59E-07	1.51E-06	6.64E-10	0.00E+00	1.87E-06	4.92E-08	2.07E-07	9.90E-11	0.00E+00	2.56E-07	3.02E-08	9.52E-08	2.30E-11	0.00E+00	1.25E-07
2505	420672.98	3734792.31	1.25E-07	5.29E-07	2.32E-10	0.00E+00	6.55E-07	1.72E-08	7.24E-08	3.46E-11	0.00E+00	8.96E-08	1.05E-08	3.33E-08	8.03E-12	0.00E+00	4.38E-08
2506	420596.77	3734761.71	7.26E-08	3.06E-07	1.34E-10	0.00E+00	3.79E-07	9.95E-09	4.19E-08	2.00E-11	0.00E+00	5.19E-08	6.11E-09	1.93E-08	4.65E-12	0.00E+00	2.54E-08
2507	420588.3	3734758.31	6.93E-08	2.93E-07	1.28E-10	0.00E+00	3.62E-07	9.50E-09	4.00E-08	1.91E-11	0.00E+00	4.95E-08	5.83E-09	1.84E-08	4.44E-12	0.00E+00	2.42E-08
2508	420579.83	3734754.91	6.64E-08	2.80E-07	1.23E-10	0.00E+00	3.47E-07	9.11E-09	3.84E-08	1.83E-11	0.00E+00	4.75E-08	5.59E-09	1.76E-08	4.26E-12	0.00E+00	2.32E-08
2509	420571.37	3734751.52	6.39E-08	2.70E-07	1.18E-10	0.00E+00	3.34E-07	8.75E-09	3.69E-08	1.76E-11	0.00E+00	4.56E-08	5.37E-09	1.69E-08	4.09E-12	0.00E+00	2.23E-08
2510	420520.56	3734731.12	5.15E-08	2.18E-07	9.55E-11	0.00E+00	2.69E-07	7.06E-09	2.98E-08	1.42E-11	0.00E+00	3.68E-08	4.34E-09	1.37E-08	3.30E-12	0.00E+00	1.80E-08
2511	420512.1	3734727.72	4.97E-08	2.10E-07	9.21E-11	0.00E+00	2.60E-07	6.82E-09	2.87E-08	1.37E-11	0.00E+00	3.55E-08	4.18E-09	1.32E-08	3.19E-12	0.00E+00	1.74E-08
2512	420503.63	3734724.32	4.80E-08	2.02E-07	8.89E-11	0.00E+00	2.51E-07	6.57E-09	2.77E-08	1.32E-11	0.00E+00	3.43E-08	4.03E-09	1.27E-08	3.07E-12	0.00E+00	1.68E-08
2513	420491.64	3734712.5	4.69E-08	1.98E-07	8.68E-11	0.00E+00	2.45E-07	6.42E-09	2.71E-08	1.29E-11	0.00E+00	3.35E-08	3.94E-09	1.24E-08	3.00E-12	0.00E+00	1.64E-08
2514	420477.55	3734678.83	4.87E-08	2.06E-07	9.02E-11	0.00E+00	2.54E-07	6.67E-09	2.81E-08	1.34E-11	0.00E+00	3.48E-08	4.09E-09	1.29E-08	3.12E-12	0.00E+00	1.70E-08
2515	420470.5	3734662	4.92E-08	2.08E-07	9.11E-11	0.00E+00	2.57E-07	6.74E-09	2.84E-08	1.36E-11	0.00E+00	3.51E-08	4.14E-09	1.30E-08	3.15E-12	0.00E+00	1.72E-08
2516	420459.94	3734636.75	4.94E-08	2.09E-07	9.15E-11	0.00E+00	2.58E-07	6.77E-09	2.85E-08	1.36E-11	0.00E+00	3.53E-08	4.16E-09	1.31E-08	3.16E-12	0.00E+00	1.73E-08
2517	420438.8	3734586.24	4.81E-08	2.03E-07	8.91E-11	0.00E+00	2.51E-07	6.59E-09	2.78E-08	1.33E-11	0.00E+00	3.44E-08	4.04E-09	1.28E-08	3.08E-12	0.00E+00	1.68E-08
2518	420681.44	3734795.71	1.36E-07	5.74E-07	2.52E-10	0.00E+00	7.10E-07	1.86E-08	7.84E-08	3.75E-11	0.00E+00	9.71E-08	1.14E-08	3.61E-08	8.70E-12	0.00E+00	4.75E-08
2519	420690.63	3734795.58	1.53E-07	6.45E-07	2.83E-10	0.00E+00	7.98E-07	2.09E-08	8.82E-08	4.22E-11	0.00E+00	1.09E-07	1.29E-08	4.05E-08	9.79E-12	0.00E+00	5.34E-08
2520	420699.82	3734795.45	1.75E-07	7.38E-07	3.24E-10	0.00E+00	9.13E-07	2.40E-08	1.01E-07	4.82E-11	0.00E+00	1.25E-07	1.47E-08	4.64E-08	1.12E-11	0.00E+00	6.11E-08
2521	420709	3734795.31	2.00E-07	8.45E-07	3.71E-10	0.00E+00	1.05E-06	2.74E-08	1.16E-07	5.52E-11	0.00E+00	1.43E-07	1.68E-08	5.31E-08	1.28E-11	0.00E+00	6.99E-08
2522	420736.56	3734794.91	2.96E-07	1.25E-06	5.49E-10	0.00E+00	1.55E-06	4.06E-08	1.71E-07	8.18E-11	0.00E+00	2.12E-07	2.49E-08	7.86E-08	1.90E-11	0.00E+00	1.04E-07
2523	420673.37	3734812.35	1.11E-07	4.67E-07	2.05E-10	0.00E+00	5.78E-07	1.52E-08	6.39E-08	3.05E-11	0.00E+00	7.91E-08	9.31E-09	2.94E-08	7.09E-12	0.00E+00	3.87E-08
2524	420598.15	3734782.15	6.54E-08	2.76E-07	1.21E-10	0.00E+00	3.42E-07	8.96E-09	3.77E-08	1.80E-11	0.00E+00	4.67E-08	5.50E-09	1.73E-08	4.19E-12	0.00E+00	2.29E-08
2525	420589.79	3734778.79	6.25E-08	2.64E-07	1.16E-10	0.00E+00	3.26E-07	8.57E-09	3.61E-08	1.72E-11	0.00E+00	4.47E-08	5.26E-09	1.66E-08	4.00E-12	0.00E+00	2.18E-08
2526	420573.07	3734772.08	5.77E-08	2.44E-07	1.07E-10	0.00E+00	3.01E-07	7.91E-09	3.33E-08	1.59E-11	0.00E+00	4.12E-08	4.85E-09	1.53E-08	3.69E-12	0.00E+00	2.02E-08
2527	420556.35	3734765.37	5.38E-08	2.27E-07	9.97E-11	0.00E+00	2.81E-07	7.38E-09	3.11E-08	1.48E-11	0.00E+00	3.85E-08	4.53E-09	1.43E-08	3.45E-12	0.00E+00	1.88E-08
2528	420477.64	3734726.85	4.06E-08	1.72E-07	7.53E-11	0.00E+00	2.12E-07	5.57E-09	2.35E-08	1.12E-11	0.00E+00	2.90E-08	3.42E-09	1.08E-08	2.60E-12	0.00E+00	1.42E-08
2529	420470.69	3734710.23	4.15E-08	1.75E-07	7.69E-11	0.00E+00	2.17E-07	5.69E-09	2.40E-08	1.14E-11	0.00E+00	2.96E-08	3.49E-09	1.10E-08	2.66E-12	0.00E+00	1.45E-08
2530	420463.74	3734693.62	4.21E-08	1.78E-07	7.80E-11	0.00E+00	2.20E-07	5.77E-09	2.43E-08	1.16E-11	0.00E+00	3.01E-08	3.54E-09	1.12E-08	2.70E-12	0.00E+00	1.47E-08
2531	420435.92	3734627.14	4.26E-08	1.80E-07	7.90E-11	0.00E+00	2.23E-07	5.84E-09	2.46E-08	1.18E-11	0.00E+00	3.05E-08	3.59E-09	1.13E-08	2.73E-12	0.00E+00	1.49E-08
2532	420681.73	3734815.71	1.19E-07	5.02E-07	2.20E-10	0.00E+00	6.21E-07	1.63E-08	6.86E-08	3.28E-11	0.00E+00	8.49E-08	1.00E-08	3.15E-08	7.61E-12	0.00E+00	4.15E-08
2533	420690.92	3734815.58	1.32E-07	5.59E-07	2.45E-10	0.00E+00	6.91E-07	1.81E-08	7.64E-08	3.65E-11	0.00E+00	9.45E-08	1.11E-08	3.51E-08	8.47E-12	0.00E+00	4.62E-08
2534	420700.11	3734815.44	1.50E-07	6.32E-07	2.77E-10	0.00E+00	7.82E-07	2.05E-08	8.64E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.97E-08	9.59E-12	0.00E+00	5.23E-08
2535	420709.29	3734815.31	1.69E-07	7.15E-07	3.14E-10	0.00E+00	8.85E-07	2.32E-08	9.78E-08	4.67E-11	0.00E+00	1.21E-07	1.42E-08	4.49E-08	1.08E-11	0.00E+00	5.92E-08
2536	420736.85	3734814.91	2.47E-07	1.04E-06	4.57E-10	0.00E+00	1.29E-06	3.38E-08	1.43E-07	6.81E-11	0.00E+00	1.76E-07	2.08E-08	6.55E-08	1.58E-11	0.00E+00	8.63E-08
2537	420673.76	3734832.39	9.79E-08	4.13E-07	1.81E-10	0.00E+00	5.11E-07	1.34E-08	5.65E-08	2.70E-11	0.00E+00	7.00E-08	8.24E-09	2.60E-08	6.27E-12	0.00E+00	3.42E-08
2538	420657.22	3734825.75	8.66E-08	3.66E-07	1.60E-10	0.00E+00	4.52E-07	1.19E-08	5.00E-08	2.39E-11	0.00E+00	6.19E-08	7.28E-09	2.30E-08	5.55E-12	0.00E+00	3.03E-08
2539	420607.62	3734805.83	6.21E-08	2.62E-07	1.15E-10	0.00E+00	3.25E-07	8.52E-09	3.59E-08	1.71E-11	0.00E+00	4.44E-08	5.23E-09	1.65E-08	3.98E-12	0.00E+00	2.17E-08
2540	420591.09	3734799.2	5.66E-08	2.39E-07	1.05E-10	0.00E+00	2.96E-07	7.76E-09	3.27E-08	1.56E-11	0.00E+00	4.05E-08	4.76E-09	1.50E-08	3.63E-12	0.00E+00	1.98E-08
2541	420574.55	3734792.56	5.23E-08	2.21E-07	9.70E-11	0.00E+00	2.73E-07	7.17E-09	3.02E-08	1.44E-11	0.00E+00	3.74E-08	4.40E-09	1.39E-08	3.35E-12	0.00E+00	1.83E-08
2542	420558.02	3734785.92	4.89E-08	2.06E-07	9.05E-11	0.00E+00	2.55E-07	6.70E-09	2.82E-08	1.35E-11	0.00E+00	3.49E-08	4.11E-09	1.30E-08	3.13E-12	0.00E+00	1.71E-08
2543	420541.49	3734779.28	4.59E-08	1.94E-07	8.51E-11	0.00E+00	2.40E-07	6.29E-09	2.65E-08	1.27E-11	0.00E+00	3.28E-08	3.86E-09	1.22E-08	2.94E-12	0.00E+00	1.60E-08
2544	420508.42	3734766	4.09E-08	1.73E-07	7.58E-11	0.00E+00	2.14E-07	5.60E-09	2.36E-08	1.13E-11	0.00E+00	2.92E-08	3.44E-09	1.09E-08	2.62E-12	0.00E+00	1.43E-08
2545	420491.88	3734759.36	3.85E-08	1.63E-07	7.14E-11	0.00E+00	2.01E-07	5.28E-09	2.23E-08	1.06E-11	0.00E+00	2.75E-08	3.24E-09	1.02E-08	2.47E-12	0.00E+00	1.35E-08
2546	420475.35	3734752.73	3.63E-08	1.53E-07	6.72E-11	0.00E+00	1.89E-07	4.97E-09	2.09E-08	1.00E-11	0.00E+00	2.59E-08	3.05E-09	9.62E-09	2.32E-12	0.00E+00	1.27E-08
2547	420449.89	3734708.32	3.67E-08	1.55E-07	6.81E-11	0.00E+00	1.92E-07	5.04E-09	2.12E-08	1.01E-11	0.00E+00	2.63E-08	3.09E-09	9.75E-09	2.35E-12	0.00E+00	1.28E-08
2548	420443.01	3734691.88	3.70E-08	1.56E-07	6.85E-11	0.00E+00	1.93E-07	5.07E-09	2.13E-08	1.02E-11	0.00E+00	2.64E-08	3.11E-09	9.81E-09	2.37E-12	0.00E+00	1.29E-08
2549	420436.13	3734675.44	3.71E-08	1.57E-07	6.88E-11	0.00E+00	1.94E-07	5.09E-09	2.14E-08	1.02E-11	0.00E+00	2.65E-08	3.12E-09	9.85E-09	2.38E-12	0.00E+00	1.30E-08
2550	420408.62	3734609.7	3.66E-08	1.55E-07	6.79E-11	0.00E+00	1.91E-07	5.02E-09	2.11E-08	1.01E-11	0.00E+00	2.62E-08	3.08E-09	9.72E-09	2.35E-12	0.00E+00	1.28E-08
2551	420401.74	3734593.27	3.60E-08	1.52E-07	6.68E-11	0.00E+00	1.88E-07	4.94E-09	2.08E-08	9.94E-12	0.00E+00	2.58E-08	3.03E-09	9.56E-09	2.31E-12	0.00E+00	1.26E-08
2552	420394.86	3734576.83	3.53E-08	1.49E-07	6.54E-11	0.00E+00	1.84E-07	4.84E-09	2.04E-08	9.74E-12	0.00E+00	2.52E-08	2.97E-09	9.37E-09	2.26E-12	0.00E+00	1.23E-08
2553	420691.21	3734835.58	1.15E-07	4.87E-07	2.14E-10	0.00E+00	6.03E-07	1.58E-08	6.66E-08	3.18E-11	0.00E+00	8.25E-08	9.71E-09	3.06E-08	7.39E-12	0.00E+00	4.03E-08
2554	420700.4	3734835.44	1.29E-07	5.46E-07	2.39E-10	0.00E+00	6.75E-07	1.77E-08	7.46E-08	3.57E-11	0.00E+00	9.24E-08	1.09E-08	3.43E-08	8.28E-12	0.00E+00	4.52E-08
2555	420709.58	3734835.31	1.45E-07	6.11E-07	2.68E-10	0.00E+00	7.56E-07	1.98E-08	8.36E-08	3.99E-11	0.00E+00	1.03E-07	1.22E-08	3.84E-08	9.27E-12	0.00E+00	5.06E-08
2556	420737.14	3734834.91	2.07E-07	8.73E-07	3.83E-10	0.00E+00	1.08E-06	2.83E-08	1.19E-07	5.71E-11	0.00E+00	1.48E-07	1.74E-08	5.49E-08	1.32E-11	0.00E+00	7.23E-08
2557	420674.2	3734872.33	7.59E-08	3.20E-07	1.41E-10	0.00E+00	3.96E-07	1.04E-08	4.38E-08	2.09E-11	0.00E+00	5.42E-08	6.38E-09	2.01E-08	4.86E-12	0.00E+00	2.65E-08
2558	420665.8	3734868.96	7.16E-08	3.02E-07	1.33E-10	0.00E+00	3.74E-07	9.81E-09	4.13E-08	1.97E-11	0.00E+00	5.12E-08	6.02E-09	1.90E-08	4.58E-12	0.00E+00	2.50E-08
2559	420657.4	3734865.59	6.78E-08	2.86E-07	1.26E-10	0.00E+00	3.54E-07	9.30E-09	3.92E-08	1.87E-11	0.00E+00	4.85E-08	5.71E-09	1.80E-08	4.34E-12	0.00E+00	2.37E-08
2560	420649	3734862.21	6.47E-08	2.73E-07	1.20E-10	0.00E+00	3.38E-07	8.87E-09	3.73E-08	1.78E-11	0.00E+00	4.62E-08	5.44E-09	1.72E-08	4.14E-12	0.00E+00	2.26E-08
2561	420640.6	3734858.84	6.19E-08	2.61E-07	1.15E-10	0.00E+00	3.23E-07	8.48E-09	3.57E-08	1.71E-11	0.00E+00	4.42E-08	5.21E-09	1.64E-08	3.96E-12	0.00E+00	2.16E-08
2562	420607	3734845.35	5.06E-08	2.14E-07	9.38E-11	0.00E+00	2.65E-07	6.94E-09	2.92E-08	1.40E-11	0.00E+00	3.62E-08	4.26E-09	1.34E-08	3.24E-12	0.00E+00	1.77E-08
2563	420598.6	3734841.98	4.84E-08	2.04E-07	8.96E-11	0.00E+00	2.53E-07	6.63E-09	2.79E-08	1.34E-11	0.00E+00	3.46E-08	4.07E-09	1.28E-08	3.10E-12	0.00E+00	1.69E-08
2564	420590.2	3734838.6	4.63E-08	1.96E-07	8.59E-11	0.00E+00	2.42E-07	6.35E-09	2.68E-08	1.28E-11	0.00E+00	3.31E-08	3.90E-09	1.23E-08	2.97E-12	0.00E+00	1.62E-08
2565	420581.8	3734835.23	4.45E-08	1.88E-07	8.25E-11	0.00E+00	2.33E-07	6.10E-09	2.57E-08	1.23E-11	0.00E+00	3.18E-08	3.75E-09	1.18E-08	2.85E-12	0.00E+00	1.56E-08
2566	420573.4	3734831.86	4.29E-08	1.81E-07	7.95E-11	0.00E+00	2.24E-07	5.88E-09	2.48E-08	1.18E-11	0.00E+00	3.07E-08	3.61E-09	1.14E-08	2.75E-12	0.00E+00	1.50E-08
2567	420565	3734828.49	4.14E-08	1.75E-07	7.68E-11	0.00E+00	2.16E-07	5.68E-09	2.39E-08	1.14E-11	0.00E+00	2.96E-08	3.49E-09	1.10E-08	2.65E-12	0.00E+00	1.45E-08
2568	420556.6	3734825.11	4.01E-08	1.69E-07	7.43E-11	0.00E+00	2.09E-07	5.50E-09	2.32E-08	1.11E-11	0.00E+00	2.87E-08	3.37E-09	1.06E-08	2.57E-12	0.00E+00	1.40E-08
2569	420539.8	3734818.37	3.78E-08	1.59E-07	7.00E-11	0.00E+00	1.97E-07	5.18E-09	2.18E-08	1.04E-11	0.00E+00	2.70E-08	3.18E-09	1.00E-08	2.42E-12	0.00E+00	1.32E-08
2570	420531.4	3734814.99	3.68E-08	1.55E-07	6.81E-11	0.00E+00	1.92E-07	5.04E-09	2.12E-08	1.01E-11	0.00E+00	2.63E-08	3.09E-09	9.76E-09	2.36E-12	0.00E+00	1.29E-08
2571	420523	3734811.62	3.58E-08	1.51E-07	6.64E-11	0.00E+00	1.87E-07	4.91E-09	2.07E-08	9.89E-12	0.00E+00	2.56E-08	3.02E-09	9.51E-09	2.30E-12	0.00E+00	1.25E-08
2572	420497.8	3734801.5	3.32E-08	1.40E-07	6.16E-11	0.00E+00	1.74E-07	4.56E-09	1.92E-08	9.17E-12	0.00E+00	2.38E-08	2.80E-09	8.82E-09	2.13E-12	0.00E+00	1.16E-08

2573	420489.4	3734798.13	3.24E-08	1.37E-07	6.00E-11	0.00E+00	1.69E-07	4.44E-09	1.87E-08	8.94E-12	0.00E+00	2.32E-08	2.73E-09	8.60E-09	2.08E-12	0.00E+00	1.13E-08
2574	420481	3734794.76	3.16E-08	1.33E-07	5.85E-11	0.00E+00	1.65E-07	4.33E-09	1.82E-08	8.72E-12	0.00E+00	2.26E-08	2.66E-09	8.38E-09	2.02E-12	0.00E+00	1.10E-08
2575	420472.6	3734791.39	3.08E-08	1.30E-07	5.70E-11	0.00E+00	1.61E-07	4.22E-09	1.78E-08	8.49E-12	0.00E+00	2.20E-08	2.59E-09	8.16E-09	1.97E-12	0.00E+00	1.08E-08
2576	420464.2	3734788.01	2.99E-08	1.26E-07	5.55E-11	0.00E+00	1.56E-07	4.11E-09	1.73E-08	8.26E-12	0.00E+00	2.14E-08	2.52E-09	7.95E-09	1.92E-12	0.00E+00	1.05E-08
2577	420455.8	3734784.64	2.91E-08	1.23E-07	5.40E-11	0.00E+00	1.52E-07	3.99E-09	1.68E-08	8.04E-12	0.00E+00	2.08E-08	2.45E-09	7.73E-09	1.87E-12	0.00E+00	1.02E-08
2578	420447.4	3734781.27	2.83E-08	1.20E-07	5.25E-11	0.00E+00	1.48E-07	3.88E-09	1.63E-08	7.81E-12	0.00E+00	2.02E-08	2.38E-09	7.51E-09	1.81E-12	0.00E+00	9.90E-09
2579	420435.51	3734769.54	2.78E-08	1.17E-07	5.15E-11	0.00E+00	1.45E-07	3.81E-09	1.60E-08	7.67E-12	0.00E+00	1.99E-08	2.34E-09	7.38E-09	1.78E-12	0.00E+00	9.72E-09
2580	420411.05	3734711.09	2.91E-08	1.23E-07	5.39E-11	0.00E+00	1.52E-07	3.99E-09	1.68E-08	8.02E-12	0.00E+00	2.08E-08	2.45E-09	7.72E-09	1.86E-12	0.00E+00	1.02E-08
2581	420404.06	3734694.39	2.92E-08	1.23E-07	5.40E-11	0.00E+00	1.52E-07	4.00E-09	1.68E-08	8.05E-12	0.00E+00	2.08E-08	2.45E-09	7.74E-09	1.87E-12	0.00E+00	1.02E-08
2582	420400.57	3734686.04	2.92E-08	1.23E-07	5.41E-11	0.00E+00	1.52E-07	4.00E-09	1.68E-08	8.05E-12	0.00E+00	2.09E-08	2.45E-09	7.74E-09	1.87E-12	0.00E+00	1.02E-08
2583	420379.6	3734635.94	2.87E-08	1.21E-07	5.32E-11	0.00E+00	1.50E-07	3.94E-09	1.66E-08	7.93E-12	0.00E+00	2.05E-08	2.42E-09	7.62E-09	1.84E-12	0.00E+00	1.00E-08
2584	420376.11	3734627.59	2.86E-08	1.21E-07	5.29E-11	0.00E+00	1.49E-07	3.92E-09	1.65E-08	7.88E-12	0.00E+00	2.04E-08	2.40E-09	7.58E-09	1.83E-12	0.00E+00	9.99E-09
2585	420369.12	3734610.89	2.82E-08	1.19E-07	5.22E-11	0.00E+00	1.47E-07	3.86E-09	1.63E-08	7.78E-12	0.00E+00	2.02E-08	2.37E-09	7.48E-09	1.81E-12	0.00E+00	9.86E-09
2586	420365.62	3734602.54	2.80E-08	1.18E-07	5.18E-11	0.00E+00	1.46E-07	3.83E-09	1.61E-08	7.72E-12	0.00E+00	2.00E-08	2.35E-09	7.42E-09	1.79E-12	0.00E+00	9.77E-09
2587	420358.64	3734585.84	2.74E-08	1.16E-07	5.09E-11	0.00E+00	1.43E-07	3.76E-09	1.58E-08	7.57E-12	0.00E+00	1.96E-08	2.31E-09	7.28E-09	1.76E-12	0.00E+00	9.59E-09
2588	420682.6	3734875.7	8.06E-08	3.40E-07	1.49E-10	0.00E+00	4.21E-07	1.11E-08	4.66E-08	2.23E-11	0.00E+00	5.76E-08	6.78E-09	2.14E-08	5.17E-12	0.00E+00	2.82E-08
2589	420691.79	3734875.57	8.87E-08	3.74E-07	1.64E-10	0.00E+00	4.63E-07	1.22E-08	5.12E-08	2.45E-11	0.00E+00	6.34E-08	7.46E-09	2.35E-08	5.68E-12	0.00E+00	3.10E-08
2590	420700.98	3734875.44	9.83E-08	4.15E-07	1.82E-10	0.00E+00	5.14E-07	1.35E-08	5.68E-08	2.71E-11	0.00E+00	7.03E-08	8.27E-09	2.61E-08	6.30E-12	0.00E+00	3.44E-08
2591	420710.16	3734875.3	1.09E-07	4.61E-07	2.02E-10	0.00E+00	5.70E-07	1.50E-08	6.30E-08	3.01E-11	0.00E+00	7.80E-08	9.18E-09	2.90E-08	6.99E-12	0.00E+00	3.81E-08
2592	420737.72	3734874.9	1.50E-07	6.34E-07	2.78E-10	0.00E+00	7.85E-07	2.06E-08	8.68E-08	4.15E-11	0.00E+00	1.07E-07	1.26E-08	3.99E-08	9.63E-12	0.00E+00	5.25E-08
2593	420674.68	3734912.28	6.03E-08	2.54E-07	1.12E-10	0.00E+00	3.15E-07	8.26E-09	3.48E-08	1.66E-11	0.00E+00	4.31E-08	5.07E-09	1.60E-08	3.86E-12	0.00E+00	2.11E-08
2594	420666.17	3734908.87	5.68E-08	2.40E-07	1.05E-10	0.00E+00	2.97E-07	7.78E-09	3.28E-08	1.57E-11	0.00E+00	4.06E-08	4.78E-09	1.51E-08	3.64E-12	0.00E+00	1.98E-08
2595	420657.66	3734905.45	5.39E-08	2.27E-07	9.98E-11	0.00E+00	2.81E-07	7.38E-09	3.11E-08	1.49E-11	0.00E+00	3.85E-08	4.53E-09	1.43E-08	3.45E-12	0.00E+00	1.88E-08
2596	420649.15	3734902.04	5.15E-08	2.17E-07	9.53E-11	0.00E+00	2.69E-07	7.05E-09	2.97E-08	1.42E-11	0.00E+00	3.68E-08	4.33E-09	1.37E-08	3.30E-12	0.00E+00	1.80E-08
2597	420640.64	3734898.62	4.93E-08	2.08E-07	9.14E-11	0.00E+00	2.58E-07	6.76E-09	2.85E-08	1.36E-11	0.00E+00	3.53E-08	4.15E-09	1.31E-08	3.16E-12	0.00E+00	1.72E-08
2598	420632.14	3734895.2	4.75E-08	2.00E-07	8.79E-11	0.00E+00	2.48E-07	6.51E-09	2.74E-08	1.31E-11	0.00E+00	3.39E-08	3.99E-09	1.26E-08	3.04E-12	0.00E+00	1.66E-08
2599	420623.63	3734891.79	4.57E-08	1.93E-07	8.46E-11	0.00E+00	2.39E-07	6.26E-09	2.64E-08	1.26E-11	0.00E+00	3.27E-08	3.84E-09	1.21E-08	2.93E-12	0.00E+00	1.60E-08
2600	420389.69	3734755.64	2.31E-08	9.75E-08	4.28E-11	0.00E+00	1.21E-07	3.17E-09	1.33E-08	6.37E-12	0.00E+00	1.65E-08	1.94E-09	6.13E-09	1.48E-12	0.00E+00	8.07E-09
2601	420386.15	3734747.18	2.32E-08	9.79E-08	4.30E-11	0.00E+00	1.21E-07	3.18E-09	1.34E-08	6.40E-12	0.00E+00	1.66E-08	1.95E-09	6.15E-09	1.49E-12	0.00E+00	8.11E-09
2602	420382.61	3734738.72	2.33E-08	9.82E-08	4.31E-11	0.00E+00	1.22E-07	3.19E-09	1.34E-08	6.42E-12	0.00E+00	1.66E-08	1.96E-09	6.17E-09	1.49E-12	0.00E+00	8.13E-09
2603	420379.07	3734730.26	2.33E-08	9.84E-08	4.32E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.43E-12	0.00E+00	1.67E-08	1.96E-09	6.19E-09	1.49E-12	0.00E+00	8.15E-09
2604	420375.53	3734721.81	2.33E-08	9.85E-08	4.32E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.44E-12	0.00E+00	1.67E-08	1.96E-09	6.19E-09	1.49E-12	0.00E+00	8.16E-09
2605	420371.99	3734713.35	2.33E-08	9.86E-08	4.32E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.44E-12	0.00E+00	1.67E-08	1.96E-09	6.19E-09	1.50E-12	0.00E+00	8.16E-09
2606	420350.76	3734662.6	2.31E-08	9.74E-08	4.27E-11	0.00E+00	1.20E-07	3.16E-09	1.33E-08	6.36E-12	0.00E+00	1.65E-08	1.94E-09	6.12E-09	1.48E-12	0.00E+00	8.06E-09
2607	420343.68	3734645.69	2.28E-08	9.65E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.31E-12	0.00E+00	1.63E-08	1.92E-09	6.06E-09	1.46E-12	0.00E+00	7.99E-09
2608	420340.14	3734637.23	2.27E-08	9.59E-08	4.21E-11	0.00E+00	1.19E-07	3.11E-09	1.31E-08	6.27E-12	0.00E+00	1.62E-08	1.91E-09	6.03E-09	1.46E-12	0.00E+00	7.94E-09
2609	420336.6	3734628.77	2.26E-08	9.53E-08	4.18E-11	0.00E+00	1.18E-07	3.10E-09	1.30E-08	6.23E-12	0.00E+00	1.61E-08	1.90E-09	5.99E-09	1.45E-12	0.00E+00	7.89E-09
2610	420333.06	3734620.32	2.24E-08	9.47E-08	4.15E-11	0.00E+00	1.17E-07	3.07E-09	1.29E-08	6.19E-12	0.00E+00	1.60E-08	1.89E-09	5.95E-09	1.44E-12	0.00E+00	7.84E-09
2611	420683.18	3734915.7	6.41E-08	2.71E-07	1.19E-10	0.00E+00	3.35E-07	8.79E-09	3.70E-08	1.77E-11	0.00E+00	4.58E-08	5.39E-09	1.70E-08	4.11E-12	0.00E+00	2.24E-08
2612	420692.37	3734915.57	7.00E-08	2.95E-07	1.30E-10	0.00E+00	3.66E-07	9.59E-09	4.04E-08	1.93E-11	0.00E+00	5.00E-08	5.89E-09	1.86E-08	4.48E-12	0.00E+00	2.45E-08
2613	420701.56	3734915.43	7.71E-08	3.26E-07	1.43E-10	0.00E+00	4.03E-07	1.06E-08	4.45E-08	2.13E-11	0.00E+00	5.51E-08	6.49E-09	2.05E-08	4.94E-12	0.00E+00	2.70E-08
2614	420710.74	3734915.3	8.50E-08	3.59E-07	1.58E-10	0.00E+00	4.44E-07	1.17E-08	4.91E-08	2.35E-11	0.00E+00	6.08E-08	7.15E-09	2.26E-08	5.45E-12	0.00E+00	2.97E-08
2615	420738.3	3734914.9	1.16E-07	4.88E-07	2.14E-10	0.00E+00	6.03E-07	1.58E-08	6.67E-08	3.19E-11	0.00E+00	8.26E-08	9.72E-09	3.07E-08	7.40E-12	0.00E+00	4.04E-08
2616	420675.41	3734952.34	5.13E-08	2.17E-07	9.51E-11	0.00E+00	2.68E-07	7.03E-09	2.96E-08	1.42E-11	0.00E+00	3.67E-08	4.32E-09	1.36E-08	3.29E-12	0.00E+00	1.79E-08
2617	420658.69	3734945.63	4.61E-08	1.95E-07	8.53E-11	0.00E+00	2.41E-07	6.31E-09	2.66E-08	1.27E-11	0.00E+00	3.29E-08	3.88E-09	1.22E-08	2.95E-12	0.00E+00	1.61E-08
2618	420650.33	3734942.27	4.39E-08	1.86E-07	8.14E-11	0.00E+00	2.30E-07	6.02E-09	2.54E-08	1.21E-11	0.00E+00	3.14E-08	3.70E-09	1.17E-08	2.82E-12	0.00E+00	1.54E-08
2619	420633.61	3734935.56	4.03E-08	1.70E-07	7.46E-11	0.00E+00	2.10E-07	5.52E-09	2.33E-08	1.11E-11	0.00E+00	2.88E-08	3.39E-09	1.07E-08	2.58E-12	0.00E+00	1.41E-08
2620	420616.89	3734928.85	3.70E-08	1.56E-07	6.86E-11	0.00E+00	1.94E-07	5.08E-09	2.14E-08	1.02E-11	0.00E+00	2.65E-08	3.12E-09	9.83E-09	2.37E-12	0.00E+00	1.30E-08
2621	420575.1	3734912.06	3.05E-08	1.29E-07	5.66E-11	0.00E+00	1.60E-07	4.19E-09	1.76E-08	8.43E-12	0.00E+00	2.18E-08	2.57E-09	8.11E-09	1.96E-12	0.00E+00	1.07E-08
2622	420558.38	3734905.35	2.87E-08	1.21E-07	5.31E-11	0.00E+00	1.50E-07	3.93E-09	1.65E-08	7.91E-12	0.00E+00	2.05E-08	2.41E-09	7.61E-09	1.84E-12	0.00E+00	1.00E-08
2623	420541.67	3734898.64	2.71E-08	1.14E-07	5.02E-11	0.00E+00	1.42E-07	3.72E-09	1.56E-08	7.48E-12	0.00E+00	1.94E-08	2.28E-09	7.19E-09	1.74E-12	0.00E+00	9.47E-09
2624	420533.31	3734895.28	2.64E-08	1.12E-07	4.90E-11	0.00E+00	1.38E-07	3.62E-09	1.53E-08	7.29E-12	0.00E+00	1.89E-08	2.22E-09	7.01E-09	1.69E-12	0.00E+00	9.24E-09
2625	420516.59	3734888.57	2.52E-08	1.06E-07	4.67E-11	0.00E+00	1.32E-07	3.46E-09	1.46E-08	6.96E-12	0.00E+00	1.80E-08	2.12E-09	6.69E-09	1.62E-12	0.00E+00	8.81E-09
2626	420499.87	3734881.86	2.42E-08	1.02E-07	4.48E-11	0.00E+00	1.26E-07	3.31E-09	1.40E-08	6.67E-12	0.00E+00	1.73E-08	2.03E-09	6.41E-09	1.55E-12	0.00E+00	8.45E-09
2627	420458.08	3734865.08	2.19E-08	9.24E-08	4.05E-11	0.00E+00	1.14E-07	3.00E-09	1.26E-08	6.04E-12	0.00E+00	1.56E-08	1.84E-09	5.81E-09	1.40E-12	0.00E+00	7.65E-09
2628	420441.36	3734858.37	2.10E-08	8.87E-08	3.89E-11	0.00E+00	1.10E-07	2.88E-09	1.21E-08	5.80E-12	0.00E+00	1.50E-08	1.77E-09	5.58E-09	1.35E-12	0.00E+00	7.34E-09
2629	420399.57	3734841.58	1.89E-08	7.96E-08	3.49E-11	0.00E+00	9.85E-08	2.58E-09	1.09E-08	5.20E-12	0.00E+00	1.35E-08	1.59E-09	5.00E-09	1.21E-12	0.00E+00	6.59E-09
2630	420351.55	3734760.09	1.90E-08	8.01E-08	3.51E-11	0.00E+00	9.91E-08	2.60E-09	1.09E-08	5.23E-12	0.00E+00	1.36E-08	1.60E-09	5.03E-09	1.21E-12	0.00E+00	6.63E-09
2631	420344.6	3734743.47	1.90E-08	8.02E-08	3.52E-11	0.00E+00	9.93E-08	2.60E-09	1.10E-08	5.24E-12	0.00E+00	1.36E-08	1.60E-09	5.04E-09	1.22E-12	0.00E+00	6.64E-09
2632	420320.26	3734685.31	1.88E-08	7.94E-08	3.49E-11	0.00E+00	9.83E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.34E-08	1.58E-09	4.99E-09	1.21E-12	0.00E+00	6.58E-09
2633	420313.3	3734668.69	1.87E-08	7.89E-08	3.46E-11	0.00E+00	9.76E-08	2.56E-09	1.08E-08	5.15E-12	0.00E+00	1.34E-08	1.57E-09	4.96E-09	1.20E-12	0.00E+00	6.53E-09
2634	420683.77	3734955.7	5.43E-08	2.29E-07	1.01E-10	0.00E+00	2.84E-07	7.44E-09	3.14E-08	1.50E-11	0.00E+00	3.88E-08	4.57E-09	1.44E-08	3.48E-12	0.00E+00	1.90E-08
2635	420692.95	3734955.56	5.88E-08	2.48E-07	1.09E-10	0.00E+00	3.07E-07	8.06E-09	3.40E-08	1.62E-11	0.00E+00	4.20E-08	4.95E-09	1.56E-08	3.77E-12	0.00E+00	2.06E-08
2636	420702.14	3734955.43	6.39E-08	2.70E-07	1.18E-10	0.00E+00	3.34E-07	8.76E-09	3.69E-08	1.76E-11	0.00E+00	4.57E-08	5.38E-09	1.70E-08	4.09E-12	0.00E+00	2.23E-08
2637	420711.33	3734955.3	6.94E-08	2.93E-07	1.29E-10	0.00E+00	3.63E-07	9.52E-09	4.01E-08	1.92E-11	0.00E+00	4.96E-08	5.84E-09	1.84E-08	4.45E-12	0.00E+00	2.43E-08
2638	420729.7	3734955.03	8.29E-08	3.50E-07	1.54E-10	0.00E+00	4.33E-07	1.14E-08	4.79E-08	2.29E-11	0.00E+00	5.92E-08	6.97E-09	2.20E-08	5.31E-12	0.00E+00	2.90E-08
2639	420738.89	3734954.9	9.09E-08	3.84E-07	1.68E-10	0.00E+00	4.75E-07	1.25E-08	5.25E-08	2.51E-11	0.00E+00	6.50E-08	7.65E-09	2.41E-08	5.82E-12	0.00E+00	3.18E-08
2640	420675.89	3734992.3	4.38E-08	1.85E-07	8.12E-11	0.00E+00	2.29E-07	6.01E-09	2.53E-08	1.21E-11	0.00E+00	3.13E-08	3.69E-09	1.16E-08	2.81E-12	0.00E+00	1.53E-08
2641	420667.44	3734988.91	4.15E-08	1.75E-07	7.70E-11	0.00E+00	2.17E-07	5.70E-09	2.40E-08	1.15E-11	0.00E+00	2.97E-08	3.50E-09	1.10E-08	2.66E-12	0.00E+00	1.45E-08
2642	420658.99	3734985.51	3.94E-08	1.66E-07	7.30E-11	0.00E+00	2.06E-07	5.40E-09	2.27E-08	1.09E-11	0.00E+00	2.82E-08	3.31E-09	1.05E-08	2.52E-12	0.00E+00	1.38E-08
2643	420650.54	3734982.12	3.73E-08	1.58E-07	6.92E-11	0.00E+00	1.95E-07	5.12E-09	2.16E-08	1.03E-11	0.00E+00	2.67E-08	3.14E-09	9.91E-09	2.39E-12	0.00E+00	1.31E-08
2644	420642.09	3734978.73	3.55E-08	1.50E-07	6.57E-11	0.00E+00	1.85E-07	4.86E-09	2.05E-08	9.79E-12	0.00E+00	2.54E-08	2.98E-09	9.41E-09	2.27E-12	0.00E+00	1.24E-08
2645	420633.64	3734975.33	3.38E-08	1.43E-07	6.26E-11	0.00E+00	1.77E-07	4.63E-09	1.95E-08	9.32E-12	0.00E+00	2.42E-08	2.84E-09	8.97E-09	2.16E-12	0.00E+00	1.18E-08
2646	420625.19	3734971.94	3.25E-08	1.37E-07	6.02E-11	0.00E+00	1.70E-07	4.46E-09	1.88E-08	8.97E-12	0.00E+00	2.32E-08	2.73E-09	8.63E-09	2.08E-12	0.00E+00	1.14E-08
2647	420616.74	3734968.55	3.16E-08	1.33E-07	5.85E-11	0.00E+00	1.65E-07	4.33E-09	1.82E-08	8.71E-12	0.00E+00	2.26E-08	2.66E-09	8.38E-09	2.02E-12	0.00E+00	1.10E-08
2648	420608.29	3734965.15	3.04E-08	1.28E-07	5.62E-11	0.00E+00	1.59E-07	4.16E-09	1.75E-08	8.38E-12	0.00E+00	2.17E-08	2.55E-09	8.06E-09	1.94E-12	0.00E+00	1.06E-08
2649	420599.84	3734961.76	2.92E-08	1.23E-07	5.40E-11	0.00E+00	1.52E-07	4.00E-09	1.68E-08	8.05E-12	0.00E+00	2.08E-08	2.45E-09	7.74E-09	1.87E-12	0.00E+00	1.02E-08
2650	420591.39	3734958.37	2.81E-08	1.19E-07	5.20E-11	0.00E+00	1.47E-07	3.85E-09	1.62E-08	7.75E-12	0.00E+00	2.01E-08	2.36E-09	7.45E-09	1.80E-12	0.00E+00	9.81E-09
2651	420557.59	3734944.8	2.45E-08	1.04E-07	4.55E-11	0.00E+00	1.28E-07	3.36E-09	1.42E-08	6.77E-12	0.00E+00	1.75E-08	2.06E-09	6.51E-09	1.57E-12	0.00E+00	8.58E-09
2652	420549.13	3734941.4	2.38E-08	1.01E-07	4.42E-11	0.00E+00	1.25E-07	3.27E-09	1.38E-08	6.58E-12	0.00E+00	1.70E-08	2.01E-09	6.33E-09	1.53E-12	0.00E+00	8.33E-09
2653	420540.68	3734938.01	2.31E-08	9.74E-08	4.27E-11	0.00E+00	1.20E-07	3.16E-09	1.33E-08	6.36E-12	0.00E+00	1.65E-08	1.94E-09	6.12E-09	1.48E-12	0.00E+00	8.06E-09
2654	420532.23	3734934.62	2.24E-08	9.47E-08	4.16E-11	0.00E+00	1.17E-07	3.08E-09	1.30E-08	6.19E-12	0.00E+00	1.60E-08	1.89E-09	5.95E-09	1.44E-12	0.00E+00	7.84E-09
2655	420523.78	3734931.22	2.19E-08	9.24E-08	4.05E-11	0.00E+00	1.14E-07	3.00E-09	1.26E-08	6.04E-12	0.00E+00	1.56E-08	1.84E-09	5.81E-09	1.40E-12	0.00E+00	7.65E-09
2656	420515.33	3734927.83	2.14E-08	9.02E-08	3.96E-11	0.00E+00	1.12E-07	2.93E-09	1.23E-08	5.89E-12	0.00E+00	1.53E-08	1.80E-09	5.67E-09	1.37E-12	0.00E+00	7.47E-09
2657	420506.88	3734924.44	2.09E-08	8.83E-08	3.88E-11	0.00E+00	1.09E-07	2.87E-09	1.21E-08	5.77E-12	0.00E+00	1.50E-08	1.76E-09	5.55E-09	1.34E-12	0.00E+00	7.31E-09
2658	420498.43	3734921.04	2.06E-08	8.68E-08	3.81E-11	0.00E+00	1.07E-07	2.82E-09	1.19E-08	5.68E-12	0.00E+00	1.47E-08	1.73E-09	5.46E-09	1.32E-12	0.00E+00	7.19E-09
2659	420489.98	3734917.65	2.02E-08	8.54E-08	3.75E-11	0.00E+00	1.06E-07	2.77E-09	1.17E-08	5.58E-12	0.00E+00	1.45E-08	1.70E-09	5.37E-09	1.30E-12	0.00E+00	7.07E-09
2660	420481.53	3734914.26	1.99E-08	8.39E-08	3.68E-11	0.00E+00	1.04E-07	2.72E-09	1.15E-08	5.48E-12	0.00E+00	1.42E-08	1.67E-09	5.27E-09	1.27E-12	0.00E+00	6.95E-09
2661	420473.08	3734910.86	1.96E-08	8.26E-08	3.63E-11	0.00E+00	1.02E-07	2.68E-09	1.13E-08	5.40E-12	0.00E+00	1.40E-08	1.65E-09	5.19E-09	1.25E-12	0.00E+00	6.84E-09
2662	420456.18	3734904.08	1.89E-08	8.00E-08	3.51E-11	0.00E+00	9.90E-08	2.60E-09	1.09E-08	5.23E-12	0.00E+00	1.35E-08	1.59E-09	5.03E-09	1.21E-12	0.00E+00	6.62E-09
2663	420447.73	3734900.68	1.86E-08	7.86E-08	3.45E-11	0.00E+00	9.72E-08	2.55E-09	1.07E-08	5.13E-12	0.00E+00	1.33E-08	1.57E-09	4.94E-09	1.19E-12	0.00E+00	6.50E-09
2664	420439.28	3734897.29	1.82E-08	7.70E-08	3.38E-11	0.00E+00	9.53E-08	2.50E-09	1.05E-08	5.03E-12	0.00E+00	1.30E-08	1.54E-09	4.84E-09	1.17E-12	0.00E+00	6.38E-09

2665	420430.83	3734893.9	1.79E-08	7.55E-08	3.31E-11	0.00E+00	9.34E-08	2.45E-09	1.03E-08	4.93E-12	0.00E+00	1.28E-08	1.50E-09	4.74E-09	1.15E-12	0.00E+00	6.25E-09
2666	420422.38	3734890.51	1.75E-08	7.40E-08	3.25E-11	0.00E+00	9.15E-08	2.40E-09	1.01E-08	4.83E-12	0.00E+00	1.25E-08	1.47E-09	4.65E-09	1.12E-12	0.00E+00	6.12E-09
2667	420351.25	3734854.96	1.50E-08	6.33E-08	2.78E-11	0.00E+00	7.83E-08	2.06E-09	8.66E-09	4.14E-12	0.00E+00	1.07E-08	1.26E-09	3.98E-09	9.60E-13	0.00E+00	5.24E-09
2668	420330.16	3734804.56	1.56E-08	6.59E-08	2.89E-11	0.00E+00	8.16E-08	2.14E-09	9.01E-09	4.31E-12	0.00E+00	1.12E-08	1.31E-09	4.14E-09	1.00E-12	0.00E+00	5.46E-09
2669	420323.13	3734787.76	1.57E-08	6.63E-08	2.91E-11	0.00E+00	8.20E-08	2.15E-09	9.06E-09	4.33E-12	0.00E+00	1.12E-08	1.32E-09	4.17E-09	1.01E-12	0.00E+00	5.49E-09
2670	420319.62	3734779.36	1.57E-08	6.64E-08	2.91E-11	0.00E+00	8.21E-08	2.16E-09	9.08E-09	4.34E-12	0.00E+00	1.12E-08	1.32E-09	4.17E-09	1.01E-12	0.00E+00	5.50E-09
2671	420291.49	3734712.15	1.56E-08	6.60E-08	2.90E-11	0.00E+00	8.17E-08	2.14E-09	9.03E-09	4.32E-12	0.00E+00	1.12E-08	1.32E-09	4.15E-09	1.00E-12	0.00E+00	5.47E-09
2672	420287.98	3734703.75	1.56E-08	6.59E-08	2.89E-11	0.00E+00	8.15E-08	2.14E-09	9.01E-09	4.31E-12	0.00E+00	1.12E-08	1.31E-09	4.14E-09	1.00E-12	0.00E+00	5.45E-09
2673	420284.46	3734695.35	1.56E-08	6.57E-08	2.88E-11	0.00E+00	8.13E-08	2.13E-09	8.98E-09	4.29E-12	0.00E+00	1.11E-08	1.31E-09	4.13E-09	9.97E-13	0.00E+00	5.44E-09
2674	420277.43	3734678.55	1.54E-08	6.52E-08	2.86E-11	0.00E+00	8.07E-08	2.12E-09	8.91E-09	4.26E-12	0.00E+00	1.10E-08	1.30E-09	4.10E-09	9.89E-13	0.00E+00	5.40E-09
2675	420684.35	3734995.69	4.63E-08	1.95E-07	8.57E-11	0.00E+00	2.42E-07	6.34E-09	2.67E-08	1.28E-11	0.00E+00	3.31E-08	3.89E-09	1.23E-08	2.96E-12	0.00E+00	1.62E-08
2676	420693.53	3734995.56	4.99E-08	2.11E-07	9.24E-11	0.00E+00	2.61E-07	6.84E-09	2.88E-08	1.38E-11	0.00E+00	3.57E-08	4.20E-09	1.32E-08	3.20E-12	0.00E+00	1.74E-08
2677	420702.72	3734995.42	5.38E-08	2.27E-07	9.98E-11	0.00E+00	2.81E-07	7.38E-09	3.11E-08	1.49E-11	0.00E+00	3.85E-08	4.53E-09	1.43E-08	3.45E-12	0.00E+00	1.88E-08
2678	420711.91	3734995.29	5.81E-08	2.45E-07	1.08E-10	0.00E+00	3.04E-07	7.97E-09	3.36E-08	1.60E-11	0.00E+00	4.16E-08	4.89E-09	1.54E-08	3.72E-12	0.00E+00	2.03E-08
2679	420730.28	3734995.02	6.79E-08	2.87E-07	1.26E-10	0.00E+00	3.55E-07	9.31E-09	3.92E-08	1.87E-11	0.00E+00	4.85E-08	5.71E-09	1.80E-08	4.35E-12	0.00E+00	2.37E-08
2680	420739.47	3734994.89	7.34E-08	3.10E-07	1.36E-10	0.00E+00	3.83E-07	1.01E-08	4.24E-08	2.03E-11	0.00E+00	5.25E-08	6.17E-09	1.95E-08	4.70E-12	0.00E+00	2.57E-08
2681	420676.6	3735032.34	3.71E-08	1.57E-07	6.88E-11	0.00E+00	1.94E-07	5.09E-09	2.14E-08	1.03E-11	0.00E+00	2.66E-08	3.13E-09	9.86E-09	2.38E-12	0.00E+00	1.30E-08
2682	420659.93	3735025.65	3.38E-08	1.43E-07	6.27E-11	0.00E+00	1.77E-07	4.64E-09	1.95E-08	9.34E-12	0.00E+00	2.42E-08	2.85E-09	8.98E-09	2.17E-12	0.00E+00	1.18E-08
2683	420651.6	3735022.31	3.23E-08	1.36E-07	5.98E-11	0.00E+00	1.69E-07	4.43E-09	1.86E-08	8.91E-12	0.00E+00	2.31E-08	2.72E-09	8.57E-09	2.07E-12	0.00E+00	1.13E-08
2684	420634.94	3735015.62	2.94E-08	1.24E-07	5.44E-11	0.00E+00	1.54E-07	4.03E-09	1.70E-08	8.11E-12	0.00E+00	2.10E-08	2.47E-09	7.80E-09	1.88E-12	0.00E+00	1.03E-08
2685	420618.28	3735008.93	2.74E-08	1.16E-07	5.08E-11	0.00E+00	1.43E-07	3.76E-09	1.58E-08	7.57E-12	0.00E+00	1.96E-08	2.31E-09	7.28E-09	1.76E-12	0.00E+00	9.59E-09
2686	420609.95	3735005.58	2.64E-08	1.11E-07	4.89E-11	0.00E+00	1.38E-07	3.62E-09	1.52E-08	7.28E-12	0.00E+00	1.89E-08	2.22E-09	7.00E-09	1.69E-12	0.00E+00	9.22E-09
2687	420593.28	3734998.89	2.45E-08	1.03E-07	4.54E-11	0.00E+00	1.28E-07	3.36E-09	1.41E-08	6.76E-12	0.00E+00	1.75E-08	2.06E-09	6.50E-09	1.57E-12	0.00E+00	8.57E-09
2688	420584.95	3734995.55	2.37E-08	1.00E-07	4.39E-11	0.00E+00	1.24E-07	3.25E-09	1.37E-08	6.53E-12	0.00E+00	1.69E-08	1.99E-09	6.28E-09	1.52E-12	0.00E+00	8.28E-09
2689	420543.3	3734978.82	2.04E-08	8.59E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.18E-08	5.62E-12	0.00E+00	1.45E-08	1.71E-09	5.40E-09	1.30E-12	0.00E+00	7.11E-09
2690	420526.64	3734972.13	1.93E-08	8.15E-08	3.57E-11	0.00E+00	1.01E-07	2.64E-09	1.11E-08	5.32E-12	0.00E+00	1.38E-08	1.62E-09	5.12E-09	1.24E-12	0.00E+00	6.74E-09
2691	420518.31	3734968.79	1.87E-08	7.90E-08	3.47E-11	0.00E+00	9.77E-08	2.56E-09	1.08E-08	5.16E-12	0.00E+00	1.34E-08	1.57E-09	4.97E-09	1.20E-12	0.00E+00	6.54E-09
2692	420501.64	3734962.1	1.79E-08	7.55E-08	3.31E-11	0.00E+00	9.35E-08	2.45E-09	1.03E-08	4.94E-12	0.00E+00	1.28E-08	1.50E-09	4.75E-09	1.15E-12	0.00E+00	6.25E-09
2693	420484.98	3734955.41	1.73E-08	7.32E-08	3.21E-11	0.00E+00	9.05E-08	2.38E-09	1.00E-08	4.78E-12	0.00E+00	1.24E-08	1.46E-09	4.60E-09	1.11E-12	0.00E+00	6.06E-09
2694	420476.65	3734952.06	1.71E-08	7.22E-08	3.17E-11	0.00E+00	8.93E-08	2.34E-09	9.87E-09	4.72E-12	0.00E+00	1.22E-08	1.44E-09	4.54E-09	1.09E-12	0.00E+00	5.97E-09
2695	420459.99	3734945.37	1.67E-08	7.05E-08	3.09E-11	0.00E+00	8.72E-08	2.29E-09	9.64E-09	4.61E-12	0.00E+00	1.19E-08	1.40E-09	4.43E-09	1.07E-12	0.00E+00	5.84E-09
2696	420434.99	3734935.34	1.59E-08	6.72E-08	2.95E-11	0.00E+00	8.31E-08	2.18E-09	9.19E-09	4.39E-12	0.00E+00	1.14E-08	1.34E-09	4.22E-09	1.02E-12	0.00E+00	5.56E-09
2697	420418.33	3734928.65	1.53E-08	6.47E-08	2.84E-11	0.00E+00	8.00E-08	2.10E-09	8.84E-09	4.23E-12	0.00E+00	1.09E-08	1.29E-09	4.06E-09	9.81E-13	0.00E+00	5.35E-09
2698	420410	3734925.3	1.50E-08	6.35E-08	2.78E-11	0.00E+00	7.85E-08	2.06E-09	8.68E-09	4.15E-12	0.00E+00	1.07E-08	1.26E-09	3.99E-09	9.63E-13	0.00E+00	5.25E-09
2699	420323.23	3734883.57	1.27E-08	5.36E-08	2.35E-11	0.00E+00	6.63E-08	1.74E-09	7.33E-09	3.50E-12	0.00E+00	9.07E-09	1.07E-09	3.37E-09	8.13E-13	0.00E+00	4.44E-09
2700	420302.43	3734833.88	1.31E-08	5.54E-08	2.43E-11	0.00E+00	6.86E-08	1.80E-09	7.58E-09	3.62E-12	0.00E+00	9.38E-09	1.10E-09	3.48E-09	8.41E-13	0.00E+00	4.59E-09
2701	420298.97	3734825.6	1.31E-08	5.55E-08	2.43E-11	0.00E+00	6.87E-08	1.80E-09	7.59E-09	3.63E-12	0.00E+00	9.39E-09	1.11E-09	3.49E-09	8.42E-13	0.00E+00	4.59E-09
2702	420292.04	3734809.03	1.32E-08	5.56E-08	2.44E-11	0.00E+00	6.88E-08	1.81E-09	7.61E-09	3.63E-12	0.00E+00	9.41E-09	1.11E-09	3.50E-09	8.44E-13	0.00E+00	4.60E-09
2703	420285.1	3734792.47	1.32E-08	5.57E-08	2.44E-11	0.00E+00	6.89E-08	1.81E-09	7.62E-09	3.64E-12	0.00E+00	9.43E-09	1.11E-09	3.50E-09	8.45E-13	0.00E+00	4.61E-09
2704	420253.91	3734717.94	1.31E-08	5.53E-08	2.43E-11	0.00E+00	6.85E-08	1.80E-09	7.57E-09	3.62E-12	0.00E+00	9.37E-09	1.10E-09	3.48E-09	8.39E-13	0.00E+00	4.58E-09
2705	420246.98	3734701.37	1.30E-08	5.50E-08	2.41E-11	0.00E+00	6.80E-08	1.79E-09	7.52E-09	3.59E-12	0.00E+00	9.31E-09	1.10E-09	3.46E-09	8.34E-13	0.00E+00	4.55E-09
2706	420222.72	3734643.4	1.26E-08	5.30E-08	2.33E-11	0.00E+00	6.56E-08	1.72E-09	7.25E-09	3.46E-12	0.00E+00	8.97E-09	1.06E-09	3.33E-09	8.04E-13	0.00E+00	4.39E-09
2707	420219.26	3734635.12	1.25E-08	5.26E-08	2.31E-11	0.00E+00	6.51E-08	1.71E-09	7.20E-09	3.44E-12	0.00E+00	8.91E-09	1.05E-09	3.31E-09	7.98E-13	0.00E+00	4.36E-09
2708	420684.93	3735035.69	3.90E-08	1.65E-07	7.22E-11	0.00E+00	2.04E-07	5.34E-09	2.25E-08	1.08E-11	0.00E+00	2.78E-08	3.28E-09	1.03E-08	2.50E-12	0.00E+00	1.36E-08
2709	420694.11	3735035.55	4.18E-08	1.76E-07	7.74E-11	0.00E+00	2.18E-07	5.73E-09	2.41E-08	1.15E-11	0.00E+00	2.99E-08	3.51E-09	1.11E-08	2.68E-12	0.00E+00	1.46E-08
2710	420703.3	3735035.42	4.48E-08	1.89E-07	8.31E-11	0.00E+00	2.34E-07	6.15E-09	2.59E-08	1.24E-11	0.00E+00	3.20E-08	3.77E-09	1.19E-08	2.87E-12	0.00E+00	1.57E-08
2711	420712.49	3735035.29	4.81E-08	2.03E-07	8.92E-11	0.00E+00	2.52E-07	6.60E-09	2.78E-08	1.33E-11	0.00E+00	3.44E-08	4.05E-09	1.28E-08	3.08E-12	0.00E+00	1.68E-08
2712	420730.86	3735035.02	5.56E-08	2.35E-07	1.03E-10	0.00E+00	2.90E-07	7.62E-09	3.21E-08	1.53E-11	0.00E+00	3.97E-08	4.68E-09	1.47E-08	3.56E-12	0.00E+00	1.94E-08
2713	420677.1	3735072.31	3.15E-08	1.33E-07	5.83E-11	0.00E+00	1.64E-07	4.31E-09	1.82E-08	8.68E-12	0.00E+00	2.25E-08	2.65E-09	8.35E-09	2.02E-12	0.00E+00	1.10E-08
2714	420668.69	3735068.93	3.02E-08	1.27E-07	5.59E-11	0.00E+00	1.58E-07	4.13E-09	1.74E-08	8.32E-12	0.00E+00	2.16E-08	2.54E-09	8.00E-09	1.93E-12	0.00E+00	1.05E-08
2715	420660.27	3735065.55	2.89E-08	1.22E-07	5.36E-11	0.00E+00	1.51E-07	3.97E-09	1.67E-08	7.98E-12	0.00E+00	2.07E-08	2.43E-09	7.68E-09	1.85E-12	0.00E+00	1.01E-08
2716	420651.86	3735062.17	2.78E-08	1.17E-07	5.15E-11	0.00E+00	1.45E-07	3.81E-09	1.60E-08	7.66E-12	0.00E+00	1.99E-08	2.34E-09	7.37E-09	1.78E-12	0.00E+00	9.71E-09
2717	420643.45	3735058.8	2.66E-08	1.12E-07	4.94E-11	0.00E+00	1.39E-07	3.65E-09	1.54E-08	7.35E-12	0.00E+00	1.90E-08	2.24E-09	7.07E-09	1.71E-12	0.00E+00	9.31E-09
2718	420635.04	3735055.42	2.56E-08	1.08E-07	4.74E-11	0.00E+00	1.34E-07	3.50E-09	1.48E-08	7.06E-12	0.00E+00	1.83E-08	2.15E-09	6.78E-09	1.64E-12	0.00E+00	8.94E-09
2719	420626.63	3735052.04	2.47E-08	1.04E-07	4.58E-11	0.00E+00	1.29E-07	3.39E-09	1.43E-08	6.81E-12	0.00E+00	1.77E-08	2.08E-09	6.55E-09	1.58E-12	0.00E+00	8.63E-09
2720	420618.22	3735048.67	2.38E-08	1.01E-07	4.41E-11	0.00E+00	1.24E-07	3.27E-09	1.38E-08	6.57E-12	0.00E+00	1.70E-08	2.00E-09	6.32E-09	1.53E-12	0.00E+00	8.33E-09
2721	420609.81	3735045.29	2.30E-08	9.69E-08	4.25E-11	0.00E+00	1.20E-07	3.15E-09	1.33E-08	6.33E-12	0.00E+00	1.64E-08	1.93E-09	6.09E-09	1.47E-12	0.00E+00	8.02E-09
2722	420270.62	3734853.45	1.12E-08	4.75E-08	2.08E-11	0.00E+00	5.88E-08	1.54E-09	6.49E-09	3.10E-12	0.00E+00	8.04E-09	9.46E-10	2.98E-09	7.21E-13	0.00E+00	3.93E-09
2723	420267.12	3734845.09	1.13E-08	4.76E-08	2.09E-11	0.00E+00	5.89E-08	1.55E-09	6.51E-09	3.11E-12	0.00E+00	8.06E-09	9.49E-10	2.99E-09	7.22E-13	0.00E+00	3.94E-09
2724	420260.13	3734828.37	1.13E-08	4.77E-08	2.09E-11	0.00E+00	5.90E-08	1.55E-09	6.52E-09	3.12E-12	0.00E+00	8.08E-09	9.51E-10	3.00E-09	7.24E-13	0.00E+00	3.95E-09
2725	420232.14	3734761.48	1.13E-08	4.76E-08	2.09E-11	0.00E+00	5.89E-08	1.54E-09	6.50E-09	3.11E-12	0.00E+00	8.05E-09	9.48E-10	2.99E-09	7.22E-13	0.00E+00	3.94E-09
2726	420228.64	3734753.12	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.87E-08	1.54E-09	6.49E-09	3.10E-12	0.00E+00	8.03E-09	9.45E-10	2.98E-09	7.20E-13	0.00E+00	3.93E-09
2727	420218.14	3734728.04	1.11E-08	4.71E-08	2.07E-11	0.00E+00	5.82E-08	1.53E-09	6.44E-09	3.08E-12	0.00E+00	7.97E-09	9.38E-10	2.96E-09	7.14E-13	0.00E+00	3.90E-09
2728	420193.65	3734669.51	1.08E-08	4.57E-08	2.00E-11	0.00E+00	5.65E-08	1.48E-09	6.24E-09	2.98E-12	0.00E+00	7.73E-09	9.10E-10	2.87E-09	6.93E-13	0.00E+00	3.78E-09
2729	420186.65	3734652.79	1.07E-08	4.51E-08	1.98E-11	0.00E+00	5.58E-08	1.46E-09	6.17E-09	2.95E-12	0.00E+00	7.63E-09	8.99E-10	2.83E-09	6.84E-13	0.00E+00	3.73E-09
2730	420179.66	3734636.07	1.05E-08	4.45E-08	1.95E-11	0.00E+00	5.51E-08	1.44E-09	6.09E-09	2.91E-12	0.00E+00	7.53E-09	8.87E-10	2.80E-09	6.75E-13	0.00E+00	3.68E-09
2731	420685.51	3735075.68	3.29E-08	1.39E-07	6.09E-11	0.00E+00	1.72E-07	4.50E-09	1.90E-08	9.07E-12	0.00E+00	2.35E-08	2.76E-09	8.72E-09	2.10E-12	0.00E+00	1.15E-08
2732	420694.69	3735075.55	3.51E-08	1.48E-07	6.49E-11	0.00E+00	1.83E-07	4.80E-09	2.02E-08	9.67E-12	0.00E+00	2.51E-08	2.95E-09	9.30E-09	2.25E-12	0.00E+00	1.23E-08
2733	420703.88	3735075.42	3.74E-08	1.58E-07	6.94E-11	0.00E+00	1.96E-07	5.13E-09	2.16E-08	1.03E-11	0.00E+00	2.68E-08	3.15E-09	9.94E-09	2.40E-12	0.00E+00	1.31E-08
2734	420731.44	3735075.02	4.58E-08	1.93E-07	8.48E-11	0.00E+00	2.39E-07	6.27E-09	2.64E-08	1.26E-11	0.00E+00	3.27E-08	3.85E-09	1.21E-08	2.93E-12	0.00E+00	1.60E-08
2735	420740.63	3735074.88	4.90E-08	2.07E-07	9.07E-11	0.00E+00	2.56E-07	6.71E-09	2.83E-08	1.35E-11	0.00E+00	3.50E-08	4.12E-09	1.30E-08	3.14E-12	0.00E+00	1.71E-08
2736	420643.68	3735098.65	2.30E-08	9.70E-08	4.26E-11	0.00E+00	1.20E-07	3.15E-09	1.33E-08	6.34E-12	0.00E+00	1.64E-08	1.93E-09	6.09E-09	1.47E-12	0.00E+00	8.03E-09
2737	420635.2	3735095.25	2.22E-08	9.38E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.13E-12	0.00E+00	1.59E-08	1.87E-09	5.89E-09	1.42E-12	0.00E+00	7.76E-09
2738	420626.72	3735091.84	2.15E-08	9.09E-08	3.99E-11	0.00E+00	1.12E-07	2.95E-09	1.24E-08	5.94E-12	0.00E+00	1.54E-08	1.81E-09	5.71E-09	1.38E-12	0.00E+00	7.53E-09
2739	420618.24	3735088.44	2.09E-08	8.81E-08	3.86E-11	0.00E+00	1.09E-07	2.86E-09	1.20E-08	5.76E-12	0.00E+00	1.49E-08	1.75E-09	5.53E-09	1.34E-12	0.00E+00	7.29E-09
2740	420609.76	3735085.03	2.01E-08	8.50E-08	3.73E-11	0.00E+00	1.05E-07	2.76E-09	1.16E-08	5.55E-12	0.00E+00	1.44E-08	1.69E-09	5.34E-09	1.29E-12	0.00E+00	7.04E-09
2741	420601.28	3735081.63	1.94E-08	8.21E-08	3.60E-11	0.00E+00	1.02E-07	2.67E-09	1.12E-08	5.37E-12	0.00E+00	1.39E-08	1.64E-09	5.16E-09	1.25E-12	0.00E+00	6.80E-09
2742	420592.8	3735078.22	1.88E-08	7.94E-08	3.48E-11	0.00E+00	9.82E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.34E-08	1.58E-09	4.99E-09	1.20E-12	0.00E+00	6.57E-09
2743	420584.32	3735074.82	1.82E-08	7.68E-08	3.37E-11	0.00E+00	9.51E-08	2.49E-09	1.05E-08	5.02E-12	0.00E+00	1.30E-08	1.53E-09	4.83E-09	1.17E-12	0.00E+00	6.36E-09
2744	420575.84	3735071.41	1.76E-08	7.45E-08	3.27E-11	0.00E+00	9.21E-08	2.42E-09	1.02E-08	4.87E-12	0.00E+00	1.26E-08	1.48E-09	4.68E-09	1.13E-12	0.00E+00	6.16E-09
2745	420567.36	3735068.01	1.71E-08	7.23E-08	3.17E-11	0.00E+00	8.94E-08	2.35E-09	9.88E-09	4.72E-12	0.00E+00	1.22E-08	1.44E-09	4.54E-09	1.10E-12	0.00E+00	5.98E-09
2746	420558.88	3735064.6	1.66E-08	7.02E-08	3.08E-11	0.00E+00	8.69E-08	2.28E-09	9.60E-09	4.59E-12	0.00E+00	1.19E-08	1.40E-09	4.41E-09	1.06E-12	0.00E+00	5.81E-09
2747	420550.4	3735061.2	1.62E-08	6.83E-08	3.00E-11	0.00E+00	8.45E-08	2.22E-09	9.34E-09	4.46E-12	0.00E+00	1.16E-08	1.36E-09	4.29E-09	1.04E-12	0.00E+00	5.65E-09
2748	420541.92	3735057.79	1.58E-08	6.65E-08	2.92E-11	0.00E+00	8.23E-08	2.16E-09	9.10E-09	4.35E-12	0.00E+00	1.13E-08	1.33E-09	4.18E-09	1.01E-12	0.00E+00	5.51E-09
2749	420516.47	3735047.58	1.47E-08	6.20E-08	2.72E-11	0.00E+00	7.67E-08	2.01E-09	8.47E-09	4.05E-12	0.00E+00	1.05E-08	1.23E-09	3.89E-09	9.40E-13	0.00E+00	5.13E-09
2750	420507.99	3735044.17	1.44E-08	6.07E-08	2.66E-11	0.00E+00	7.50E-08	1.97E-09	8.29E-09	3.96E-12	0.00E+00	1.03E-08	1.21E-09	3.81E-09	9.20E-13	0.00E+00	5.02E-09
2751	420499.51	3735040.77	1.40E-08	5.92E-08	2.60E-11	0.00E+00	7.33E-08	1.92E-09	8.10E-09	3.87E-12	0.00E+00	1.00E-08	1.18E-09	3.72E-09	8.98E-13	0.00E+00	4.90E-09
2752	420491.03	3735037.36	1.37E-08	5.79E-08	2.54E-11	0.00E+00	7.16E-08	1.88E-09	7.91E-09	3.78E-12	0.00E+00	9.80E-09	1.15E-09	3.64E-09	8.78E-13	0.00E+00	4.79E-09
2753	420482.55	3735033.96	1.34E-08	5.66E-08	2.48E-11	0.00E+00	7.00E-08	1.84E-09	7.74E-09	3.70E-12	0.00E+00	9.58E-09	1.13E-09	3.56E-09	8.59E-13	0.00E+00	4.68E-09
2754	420474.07	3735030.55	1.31E-08	5.55E-08	2.43E-11	0.00E+00	6.87E-08	1.80E-09	7.59E-09	3.63E-12	0.00E+00	9.39E-09	1.11E-09	3.49E-09	8.42E-13	0.00E+00	4.59E-09
2755	420465.59	3735027.15	1.29E-08	5.45E-08	2.39E-11	0.00E+00	6.74E-08	1.77E-09	7.45E-09	3.56E-12	0.00E+00	9.22E-09	1.09E-09	3.42E-09	8.26E-13	0.00E+00	4.51E-09
2756	420457.11	3735023.74	1.27E-08	5.35E-08	2.35E-11	0.00E+00	6.62E-08	1.74E-09	7.32E-09	3.50E-12	0.00E+00	9.06E-09	1.07E-09	3.37E-09	8.12E-13	0.00E+00	4.43E-09

2757	420448.63	3735020.34	1.25E-08	5.27E-08	2.31E-11	0.00E+00	6.52E-08	1.71E-09	7.21E-09	3.45E-12	0.00E+00	8.93E-09	1.05E-09	3.31E-09	8.00E-13	0.00E+00	4.37E-09
2758	420440.15	3735016.93	1.23E-08	5.21E-08	2.29E-11	0.00E+00	6.45E-08	1.69E-09	7.13E-09	3.41E-12	0.00E+00	8.83E-09	1.04E-09	3.28E-09	7.91E-13	0.00E+00	4.32E-09
2759	420431.67	3735013.52	1.22E-08	5.16E-08	2.26E-11	0.00E+00	6.38E-08	1.67E-09	7.05E-09	3.37E-12	0.00E+00	8.73E-09	1.03E-09	3.24E-09	7.82E-13	0.00E+00	4.27E-09
2760	420423.19	3735010.12	1.21E-08	5.10E-08	2.24E-11	0.00E+00	6.31E-08	1.66E-09	6.97E-09	3.33E-12	0.00E+00	8.63E-09	1.02E-09	3.20E-09	7.74E-13	0.00E+00	4.22E-09
2761	420414.71	3735006.71	1.20E-08	5.05E-08	2.22E-11	0.00E+00	6.25E-08	1.64E-09	6.91E-09	3.30E-12	0.00E+00	8.55E-09	1.01E-09	3.17E-09	7.66E-13	0.00E+00	4.18E-09
2762	420406.23	3735003.31	1.19E-08	5.01E-08	2.20E-11	0.00E+00	6.20E-08	1.63E-09	6.85E-09	3.27E-12	0.00E+00	8.48E-09	9.98E-10	3.15E-09	7.60E-13	0.00E+00	4.15E-09
2763	420397.74	3734999.9	1.18E-08	4.97E-08	2.18E-11	0.00E+00	6.15E-08	1.61E-09	6.80E-09	3.25E-12	0.00E+00	8.41E-09	9.90E-10	3.12E-09	7.54E-13	0.00E+00	4.11E-09
2764	420389.26	3734996.5	1.16E-08	4.90E-08	2.15E-11	0.00E+00	6.07E-08	1.59E-09	6.70E-09	3.20E-12	0.00E+00	8.30E-09	9.77E-10	3.08E-09	7.44E-13	0.00E+00	4.06E-09
2765	420380.78	3734993.09	1.15E-08	4.84E-08	2.12E-11	0.00E+00	5.98E-08	1.57E-09	6.61E-09	3.16E-12	0.00E+00	8.19E-09	9.64E-10	3.04E-09	7.34E-13	0.00E+00	4.00E-09
2766	420372.3	3734989.69	1.13E-08	4.77E-08	2.09E-11	0.00E+00	5.90E-08	1.55E-09	6.52E-09	3.12E-12	0.00E+00	8.07E-09	9.50E-10	3.00E-09	7.24E-13	0.00E+00	3.95E-09
2767	420363.82	3734986.28	1.11E-08	4.70E-08	2.06E-11	0.00E+00	5.82E-08	1.53E-09	6.43E-09	3.07E-12	0.00E+00	7.96E-09	9.37E-10	2.96E-09	7.13E-13	0.00E+00	3.89E-09
2768	420287.5	3734955.64	9.69E-09	4.09E-08	1.80E-11	0.00E+00	5.06E-08	1.33E-09	5.59E-09	2.67E-12	0.00E+00	6.92E-09	8.15E-10	2.57E-09	6.21E-13	0.00E+00	3.39E-09
2769	420279.02	3734952.23	9.51E-09	4.01E-08	1.76E-11	0.00E+00	4.97E-08	1.30E-09	5.49E-09	2.62E-12	0.00E+00	6.79E-09	8.00E-10	2.52E-09	6.09E-13	0.00E+00	3.32E-09
2770	420267.01	3734940.4	9.38E-09	3.96E-08	1.74E-11	0.00E+00	4.90E-08	1.29E-09	5.42E-09	2.59E-12	0.00E+00	6.70E-09	7.89E-10	2.49E-09	6.01E-13	0.00E+00	3.28E-09
2771	420263.48	3734931.97	9.44E-09	3.98E-08	1.75E-11	0.00E+00	4.93E-08	1.29E-09	5.45E-09	2.60E-12	0.00E+00	6.75E-09	7.94E-10	2.50E-09	6.05E-13	0.00E+00	3.30E-09
2772	420224.67	3734839.23	9.77E-09	4.13E-08	1.81E-11	0.00E+00	5.11E-08	1.34E-09	5.64E-09	2.70E-12	0.00E+00	6.99E-09	8.22E-10	2.59E-09	6.26E-13	0.00E+00	3.42E-09
2773	420203.51	3734788.65	9.74E-09	4.11E-08	1.80E-11	0.00E+00	5.09E-08	1.34E-09	5.62E-09	2.69E-12	0.00E+00	6.96E-09	8.19E-10	2.58E-09	6.24E-13	0.00E+00	3.40E-09
2774	420199.98	3734780.22	9.72E-09	4.11E-08	1.80E-11	0.00E+00	5.08E-08	1.33E-09	5.61E-09	2.68E-12	0.00E+00	6.95E-09	8.18E-10	2.58E-09	6.23E-13	0.00E+00	3.40E-09
2775	420196.45	3734771.79	9.70E-09	4.10E-08	1.80E-11	0.00E+00	5.07E-08	1.33E-09	5.60E-09	2.68E-12	0.00E+00	6.93E-09	8.16E-10	2.57E-09	6.21E-13	0.00E+00	3.39E-09
2776	420192.92	3734763.36	9.67E-09	4.08E-08	1.79E-11	0.00E+00	5.05E-08	1.33E-09	5.58E-09	2.67E-12	0.00E+00	6.91E-09	8.13E-10	2.57E-09	6.19E-13	0.00E+00	3.38E-09
2777	420161.17	3734687.49	9.35E-09	3.95E-08	1.73E-11	0.00E+00	4.88E-08	1.28E-09	5.40E-09	2.58E-12	0.00E+00	6.68E-09	7.86E-10	2.48E-09	5.99E-13	0.00E+00	3.27E-09
2778	420157.64	3734679.06	9.30E-09	3.93E-08	1.72E-11	0.00E+00	4.86E-08	1.27E-09	5.37E-09	2.57E-12	0.00E+00	6.65E-09	7.82E-10	2.47E-09	5.96E-13	0.00E+00	3.25E-09
2779	420150.59	3734662.2	9.20E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.74E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
2780	420147.06	3734653.76	9.14E-09	3.86E-08	1.69E-11	0.00E+00	4.78E-08	1.25E-09	5.28E-09	2.52E-12	0.00E+00	6.53E-09	7.69E-10	2.43E-09	5.86E-13	0.00E+00	3.20E-09
2781	420143.53	3734645.33	9.09E-09	3.84E-08	1.68E-11	0.00E+00	4.75E-08	1.25E-09	5.25E-09	2.51E-12	0.00E+00	6.49E-09	7.64E-10	2.41E-09	5.82E-13	0.00E+00	3.18E-09
2782	420678.29	3735152.31	2.30E-08	9.70E-08	4.26E-11	0.00E+00	1.20E-07	3.15E-09	1.33E-08	6.34E-12	0.00E+00	1.64E-08	1.93E-09	6.10E-09	1.47E-12	0.00E+00	8.03E-09
2783	420661.52	3735145.58	2.13E-08	9.00E-08	3.95E-11	0.00E+00	1.11E-07	2.92E-09	1.23E-08	5.88E-12	0.00E+00	1.52E-08	1.79E-09	5.66E-09	1.37E-12	0.00E+00	7.45E-09
2784	420644.76	3735138.85	2.00E-08	8.43E-08	3.70E-11	0.00E+00	1.04E-07	2.74E-09	1.15E-08	5.51E-12	0.00E+00	1.43E-08	1.68E-09	5.30E-09	1.28E-12	0.00E+00	6.98E-09
2785	420628	3735132.12	1.87E-08	7.91E-08	3.47E-11	0.00E+00	9.79E-08	2.57E-09	1.08E-08	5.17E-12	0.00E+00	1.34E-08	1.58E-09	4.97E-09	1.20E-12	0.00E+00	6.55E-09
2786	420611.24	3735125.39	1.78E-08	7.50E-08	3.29E-11	0.00E+00	9.28E-08	2.43E-09	1.03E-08	4.90E-12	0.00E+00	1.27E-08	1.49E-09	4.71E-09	1.14E-12	0.00E+00	6.21E-09
2787	420602.85	3735122.02	1.73E-08	7.31E-08	3.21E-11	0.00E+00	9.05E-08	2.37E-09	1.00E-08	4.78E-12	0.00E+00	1.24E-08	1.46E-09	4.59E-09	1.11E-12	0.00E+00	6.05E-09
2788	420586.09	3735115.29	1.63E-08	6.87E-08	3.01E-11	0.00E+00	8.49E-08	2.23E-09	9.39E-09	4.49E-12	0.00E+00	1.16E-08	1.37E-09	4.32E-09	1.04E-12	0.00E+00	5.68E-09
2789	420569.33	3735108.56	1.53E-08	6.48E-08	2.84E-11	0.00E+00	8.01E-08	2.10E-09	8.85E-09	4.23E-12	0.00E+00	1.10E-08	1.29E-09	4.07E-09	9.82E-13	0.00E+00	5.36E-09
2790	420560.95	3735105.2	1.49E-08	6.30E-08	2.76E-11	0.00E+00	7.79E-08	2.04E-09	8.61E-09	4.11E-12	0.00E+00	1.07E-08	1.25E-09	3.96E-09	9.55E-13	0.00E+00	5.21E-09
2791	420552.57	3735101.83	1.45E-08	6.13E-08	2.69E-11	0.00E+00	7.58E-08	1.99E-09	8.38E-09	4.01E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.30E-13	0.00E+00	5.07E-09
2792	420535.8	3735095.1	1.38E-08	5.83E-08	2.56E-11	0.00E+00	7.21E-08	1.89E-09	7.97E-09	3.81E-12	0.00E+00	9.87E-09	1.16E-09	3.66E-09	8.84E-13	0.00E+00	4.83E-09
2793	420502.28	3735081.64	1.25E-08	5.27E-08	2.31E-11	0.00E+00	6.53E-08	1.71E-09	7.21E-09	3.45E-12	0.00E+00	8.93E-09	1.05E-09	3.31E-09	8.00E-13	0.00E+00	4.37E-09
2794	420493.9	3735078.27	1.23E-08	5.18E-08	2.27E-11	0.00E+00	6.41E-08	1.68E-09	7.08E-09	3.38E-12	0.00E+00	8.76E-09	1.03E-09	3.25E-09	7.85E-13	0.00E+00	4.29E-09
2795	420485.52	3735074.91	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.29E-08	1.65E-09	6.95E-09	3.32E-12	0.00E+00	8.61E-09	1.01E-09	3.20E-09	7.71E-13	0.00E+00	4.21E-09
2796	420477.13	3735071.54	1.18E-08	4.99E-08	2.19E-11	0.00E+00	6.18E-08	1.62E-09	6.83E-09	3.26E-12	0.00E+00	8.45E-09	9.95E-10	3.14E-09	7.58E-13	0.00E+00	4.13E-09
2797	420460.37	3735064.81	1.14E-08	4.82E-08	2.12E-11	0.00E+00	5.97E-08	1.57E-09	6.60E-09	3.15E-12	0.00E+00	8.17E-09	9.61E-10	3.03E-09	7.32E-13	0.00E+00	3.99E-09
2798	420443.61	3735058.08	1.11E-08	4.69E-08	2.06E-11	0.00E+00	5.81E-08	1.52E-09	6.42E-09	3.07E-12	0.00E+00	7.95E-09	9.35E-10	2.95E-09	7.12E-13	0.00E+00	3.89E-09
2799	420426.85	3735051.35	1.09E-08	4.61E-08	2.02E-11	0.00E+00	5.70E-08	1.50E-09	6.30E-09	3.01E-12	0.00E+00	7.80E-09	9.19E-10	2.90E-09	6.99E-13	0.00E+00	3.82E-09
2800	420410.08	3735044.62	1.07E-08	4.51E-08	1.98E-11	0.00E+00	5.58E-08	1.46E-09	6.17E-09	2.95E-12	0.00E+00	7.63E-09	8.99E-10	2.83E-09	6.84E-13	0.00E+00	3.73E-09
2801	420401.7	3735041.26	1.06E-08	4.46E-08	1.96E-11	0.00E+00	5.52E-08	1.45E-09	6.10E-09	2.91E-12	0.00E+00	7.55E-09	8.88E-10	2.80E-09	6.77E-13	0.00E+00	3.69E-09
2802	420384.94	3735034.53	1.03E-08	4.36E-08	1.91E-11	0.00E+00	5.40E-08	1.42E-09	5.96E-09	2.85E-12	0.00E+00	7.38E-09	8.69E-10	2.74E-09	6.62E-13	0.00E+00	3.61E-09
2803	420368.18	3735027.79	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.82E-09	2.78E-12	0.00E+00	7.21E-09	8.48E-10	2.68E-09	6.46E-13	0.00E+00	3.52E-09
2804	420359.8	3735024.43	9.97E-09	4.21E-08	1.85E-11	0.00E+00	5.21E-08	1.37E-09	5.75E-09	2.75E-12	0.00E+00	7.12E-09	8.38E-10	2.64E-09	6.38E-13	0.00E+00	3.48E-09
2805	420351.41	3735021.06	9.87E-09	4.17E-08	1.83E-11	0.00E+00	5.16E-08	1.35E-09	5.70E-09	2.72E-12	0.00E+00	7.05E-09	8.30E-10	2.62E-09	6.32E-13	0.00E+00	3.45E-09
2806	420334.65	3735014.33	9.62E-09	4.06E-08	1.78E-11	0.00E+00	5.02E-08	1.32E-09	5.55E-09	2.65E-12	0.00E+00	6.87E-09	8.09E-10	2.55E-09	6.16E-13	0.00E+00	3.36E-09
2807	420259.22	3734984.05	8.42E-09	3.56E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.02E-09	7.08E-10	2.23E-09	5.39E-13	0.00E+00	2.94E-09
2808	420238.97	3734968.98	8.20E-09	3.46E-08	1.52E-11	0.00E+00	4.29E-08	1.12E-09	4.74E-09	2.26E-12	0.00E+00	5.86E-09	6.90E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
2809	420232	3734952.32	8.29E-09	3.50E-08	1.54E-11	0.00E+00	4.33E-08	1.14E-09	4.79E-09	2.29E-12	0.00E+00	5.93E-09	6.98E-10	2.20E-09	5.31E-13	0.00E+00	2.90E-09
2810	420211.08	3734902.33	8.44E-09	3.57E-08	1.56E-11	0.00E+00	4.41E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.04E-09	7.10E-10	2.24E-09	5.41E-13	0.00E+00	2.95E-09
2811	420204.1	3734885.67	8.44E-09	3.56E-08	1.56E-11	0.00E+00	4.41E-08	1.16E-09	4.87E-09	2.33E-12	0.00E+00	6.03E-09	7.10E-10	2.24E-09	5.41E-13	0.00E+00	2.95E-09
2812	420200.62	3734877.34	8.45E-09	3.57E-08	1.57E-11	0.00E+00	4.41E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.04E-09	7.11E-10	2.24E-09	5.41E-13	0.00E+00	2.95E-09
2813	420172.73	3734810.68	8.48E-09	3.58E-08	1.57E-11	0.00E+00	4.43E-08	1.16E-09	4.90E-09	2.34E-12	0.00E+00	6.06E-09	7.14E-10	2.25E-09	5.43E-13	0.00E+00	2.97E-09
2814	420169.24	3734802.35	8.47E-09	3.58E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.89E-09	2.34E-12	0.00E+00	6.05E-09	7.12E-10	2.25E-09	5.43E-13	0.00E+00	2.96E-09
2815	420162.27	3734785.69	8.43E-09	3.56E-08	1.56E-11	0.00E+00	4.41E-08	1.16E-09	4.87E-09	2.33E-12	0.00E+00	6.03E-09	7.10E-10	2.24E-09	5.40E-13	0.00E+00	2.95E-09
2816	420158.78	3734777.36	8.41E-09	3.55E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.01E-09	7.08E-10	2.23E-09	5.39E-13	0.00E+00	2.94E-09
2817	420134.37	3734719.04	8.23E-09	3.47E-08	1.52E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.92E-10	2.18E-09	5.27E-13	0.00E+00	2.88E-09
2818	420127.4	3734702.37	8.16E-09	3.44E-08	1.51E-11	0.00E+00	4.26E-08	1.12E-09	4.71E-09	2.25E-12	0.00E+00	5.83E-09	6.86E-10	2.16E-09	5.22E-13	0.00E+00	2.85E-09
2819	420120.43	3734685.71	8.08E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.67E-09	2.23E-12	0.00E+00	5.78E-09	6.80E-10	2.14E-09	5.18E-13	0.00E+00	2.82E-09
2820	420113.45	3734669.05	7.99E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.10E-09	4.61E-09	2.21E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.12E-13	0.00E+00	2.79E-09
2821	420106.48	3734652.38	7.89E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.56E-09	2.18E-12	0.00E+00	5.64E-09	6.64E-10	2.10E-09	5.06E-13	0.00E+00	2.76E-09
2822	420103	3734644.05	7.85E-09	3.31E-08	1.45E-11	0.00E+00	4.10E-08	1.08E-09	4.53E-09	2.17E-12	0.00E+00	5.61E-09	6.60E-10	2.08E-09	5.03E-13	0.00E+00	2.74E-09
2823	420096.02	3734627.39	7.74E-09	3.27E-08	1.43E-11	0.00E+00	4.04E-08	1.06E-09	4.47E-09	2.14E-12	0.00E+00	5.53E-09	6.51E-10	2.05E-09	4.96E-13	0.00E+00	2.70E-09
2824	420686.67	3735155.67	2.39E-08	1.01E-07	4.42E-11	0.00E+00	1.25E-07	3.27E-09	1.38E-08	6.59E-12	0.00E+00	1.71E-08	2.01E-09	6.33E-09	1.53E-12	0.00E+00	8.34E-09
2825	420695.85	3735155.54	2.53E-08	1.07E-07	4.69E-11	0.00E+00	1.32E-07	3.47E-09	1.46E-08	6.98E-12	0.00E+00	1.81E-08	2.13E-09	6.71E-09	1.62E-12	0.00E+00	8.84E-09
2826	420705.04	3735155.41	2.69E-08	1.13E-07	4.98E-11	0.00E+00	1.40E-07	3.68E-09	1.55E-08	7.41E-12	0.00E+00	1.92E-08	2.26E-09	7.13E-09	1.72E-12	0.00E+00	9.39E-09
2827	420714.23	3735155.27	2.86E-08	1.21E-07	5.29E-11	0.00E+00	1.49E-07	3.92E-09	1.65E-08	7.88E-12	0.00E+00	2.04E-08	2.40E-09	7.58E-09	1.83E-12	0.00E+00	9.99E-09
2828	420732.6	3735155.01	3.23E-08	1.36E-07	5.98E-11	0.00E+00	1.69E-07	4.42E-09	1.86E-08	8.90E-12	0.00E+00	2.31E-08	2.71E-09	8.56E-09	2.07E-12	0.00E+00	1.13E-08
2829	420741.79	3735154.87	3.43E-08	1.45E-07	6.35E-11	0.00E+00	1.79E-07	4.70E-09	1.98E-08	9.46E-12	0.00E+00	2.45E-08	2.88E-09	9.09E-09	2.20E-12	0.00E+00	1.20E-08
2830	420678.8	3735192.28	2.02E-08	8.54E-08	3.75E-11	0.00E+00	1.06E-07	2.77E-09	1.17E-08	5.58E-12	0.00E+00	1.45E-08	1.70E-09	5.37E-09	1.30E-12	0.00E+00	7.07E-09
2831	420670.36	3735188.89	1.95E-08	8.24E-08	3.61E-11	0.00E+00	1.02E-07	2.67E-09	1.13E-08	5.38E-12	0.00E+00	1.39E-08	1.64E-09	5.18E-09	1.25E-12	0.00E+00	6.82E-09
2832	420661.92	3735185.5	1.88E-08	7.95E-08	3.49E-11	0.00E+00	9.84E-08	2.58E-09	1.09E-08	5.20E-12	0.00E+00	1.35E-08	1.58E-09	5.00E-09	1.21E-12	0.00E+00	6.58E-09
2833	420653.47	3735182.11	1.82E-08	7.70E-08	3.38E-11	0.00E+00	9.52E-08	2.50E-09	1.05E-08	5.03E-12	0.00E+00	1.30E-08	1.53E-09	4.84E-09	1.17E-12	0.00E+00	6.37E-09
2834	420645.03	3735178.72	1.77E-08	7.47E-08	3.28E-11	0.00E+00	9.24E-08	2.43E-09	1.02E-08	4.88E-12	0.00E+00	1.26E-08	1.49E-09	4.70E-09	1.13E-12	0.00E+00	6.18E-09
2835	420636.58	3735175.33	1.72E-08	7.25E-08	3.18E-11	0.00E+00	8.97E-08	2.35E-09	9.92E-09	4.74E-12	0.00E+00	1.23E-08	1.45E-09	4.56E-09	1.10E-12	0.00E+00	6.00E-09
2836	420628.14	3735171.94	1.67E-08	7.04E-08	3.09E-11	0.00E+00	8.71E-08	2.29E-09	9.63E-09	4.60E-12	0.00E+00	1.19E-08	1.40E-09	4.42E-09	1.07E-12	0.00E+00	5.83E-09
2837	420619.7	3735168.55	1.62E-08	6.82E-08	2.99E-11	0.00E+00	8.44E-08	2.22E-09	9.33E-09	4.46E-12	0.00E+00	1.16E-08	1.36E-09	4.29E-09	1.04E-12	0.00E+00	5.65E-09
2838	420611.25	3735165.16	1.57E-08	6.62E-08	2.90E-11	0.00E+00	8.19E-08	2.15E-09	9.05E-09	4.33E-12	0.00E+00	1.12E-08	1.32E-09	4.16E-09	1.00E-12	0.00E+00	5.48E-09
2839	420602.81	3735161.77	1.52E-08	6.43E-08	2.82E-11	0.00E+00	7.95E-08	2.09E-09	8.79E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.04E-09	9.75E-13	0.00E+00	5.32E-09
2840	420594.36	3735158.38	1.48E-08	6.25E-08	2.74E-11	0.00E+00	7.73E-08	2.03E-09	8.55E-09	4.08E-12	0.00E+00	1.06E-08	1.25E-09	3.93E-09	9.48E-13	0.00E+00	5.17E-09
2841	420585.92	3735154.98	1.44E-08	6.09E-08	2.67E-11	0.00E+00	7.54E-08	1.98E-09	8.33E-09	3.98E-12	0.00E+00	1.03E-08	1.21E-09	3.83E-09	9.24E-13	0.00E+00	5.04E-09
2842	420577.47	3735151.59	1.41E-08	5.96E-08	2.61E-11	0.00E+00	7.37E-08	1.93E-09	8.15E-09	3.89E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.04E-13	0.00E+00	4.93E-09
2843	420569.03	3735148.2	1.37E-08	5.80E-08	2.54E-11	0.00E+00	7.17E-08	1.88E-09	7.93E-09	3.79E-12	0.00E+00	9.81E-09	1.15E-09	3.64E-09	8.79E-13	0.00E+00	4.80E-09
2844	420560.59	3735144.81	1.34E-08	5.64E-08	2.48E-11	0.00E+00	6.98E-08	1.83E-09	7.71E-09	3.69E-12	0.00E+00	9.55E-09	1.12E-09	3.55E-09	8.56E-13	0.00E+00	4.67E-09
2845	420552.14	3735141.42	1.30E-08	5.50E-08	2.41E-11	0.00E+00	6.80E-08	1.78E-09	7.52E-09	3.59E-12	0.00E+00	9.30E-09	1.10E-09	3.45E-09	8.34E-13	0.00E+00	4.55E-09
2846	420543.7	3735138.03	1.27E-08	5.36E-08	2.35E-11	0.00E+00	6.63E-08	1.74E-09	7.33E-09	3.50E-12	0.00E+00	9.07E-09	1.07E-09	3.37E-09	8.13E-13	0.00E+00	4.44E-09
2847	420535.25	3735134.64	1.24E-08	5.22E-08	2.29E-11	0.00E+00	6.46E-08	1.69E-09	7.14E-09	3.41E-12	0.00E+00	8.83E-09	1.04E-09	3.28E-09	7.92E-13	0.00E+00	4.32E-09
2848	420526.81	3735131.25	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.28E-08	1.65E-09	6.94E-09	3.32E-12	0.00E+00	8.60E-09	1.01E-09	3.19E-09	7.70E-13	0.00E+00	4.20E-09

2849	420518.37	3735127.86	1.17E-08	4.95E-08	2.17E-11	0.00E+00	6.12E-08	1.61E-09	6.76E-09	3.23E-12	0.00E+00	8.37E-09	9.86E-10	3.11E-09	7.50E-13	0.00E+00	4.10E-09
2850	420509.92	3735124.47	1.14E-08	4.82E-08	2.12E-11	0.00E+00	5.97E-08	1.57E-09	6.60E-09	3.15E-12	0.00E+00	8.16E-09	9.61E-10	3.03E-09	7.32E-13	0.00E+00	3.99E-09
2851	420484.59	3735114.3	1.07E-08	4.54E-08	1.99E-11	0.00E+00	5.61E-08	1.47E-09	6.20E-09	2.97E-12	0.00E+00	7.68E-09	9.04E-10	2.85E-09	6.88E-13	0.00E+00	3.76E-09
2852	420476.15	3735110.91	1.06E-08	4.47E-08	1.96E-11	0.00E+00	5.53E-08	1.45E-09	6.11E-09	2.92E-12	0.00E+00	7.57E-09	8.91E-10	2.81E-09	6.78E-13	0.00E+00	3.70E-09
2853	420467.7	3735107.52	1.05E-08	4.42E-08	1.94E-11	0.00E+00	5.47E-08	1.43E-09	6.04E-09	2.89E-12	0.00E+00	7.48E-09	8.80E-10	2.78E-09	6.70E-13	0.00E+00	3.66E-09
2854	420459.26	3735104.13	1.03E-08	4.36E-08	1.91E-11	0.00E+00	5.40E-08	1.42E-09	5.97E-09	2.85E-12	0.00E+00	7.39E-09	8.69E-10	2.74E-09	6.62E-13	0.00E+00	3.61E-09
2855	420450.81	3735100.74	1.02E-08	4.31E-08	1.89E-11	0.00E+00	5.33E-08	1.40E-09	5.89E-09	2.82E-12	0.00E+00	7.30E-09	8.59E-10	2.71E-09	6.54E-13	0.00E+00	3.57E-09
2856	420442.37	3735097.35	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.82E-09	2.78E-12	0.00E+00	7.21E-09	8.48E-10	2.68E-09	6.46E-13	0.00E+00	3.52E-09
2857	420433.92	3735093.96	9.97E-09	4.21E-08	1.85E-11	0.00E+00	5.21E-08	1.37E-09	5.76E-09	2.75E-12	0.00E+00	7.13E-09	8.39E-10	2.65E-09	6.39E-13	0.00E+00	3.49E-09
2858	420425.48	3735090.57	9.86E-09	4.16E-08	1.83E-11	0.00E+00	5.15E-08	1.35E-09	5.69E-09	2.72E-12	0.00E+00	7.05E-09	8.30E-10	2.62E-09	6.32E-13	0.00E+00	3.45E-09
2859	420417.04	3735087.18	9.76E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.63E-09	2.69E-12	0.00E+00	6.97E-09	8.21E-10	2.59E-09	6.25E-13	0.00E+00	3.41E-09
2860	420408.59	3735083.79	9.64E-09	4.07E-08	1.79E-11	0.00E+00	5.04E-08	1.32E-09	5.57E-09	2.66E-12	0.00E+00	6.89E-09	8.11E-10	2.56E-09	6.18E-13	0.00E+00	3.37E-09
2861	420400.15	3735080.39	9.53E-09	4.02E-08	1.77E-11	0.00E+00	4.98E-08	1.31E-09	5.50E-09	2.63E-12	0.00E+00	6.81E-09	8.02E-10	2.53E-09	6.10E-13	0.00E+00	3.33E-09
2862	420391.7	3735077	9.42E-09	3.98E-08	1.75E-11	0.00E+00	4.92E-08	1.29E-09	5.44E-09	2.60E-12	0.00E+00	6.73E-09	7.93E-10	2.50E-09	6.03E-13	0.00E+00	3.29E-09
2863	420383.26	3735073.61	9.32E-09	3.94E-08	1.73E-11	0.00E+00	4.87E-08	1.28E-09	5.38E-09	2.57E-12	0.00E+00	6.66E-09	7.84E-10	2.47E-09	5.97E-13	0.00E+00	3.26E-09
2864	420374.82	3735070.22	9.23E-09	3.90E-08	1.71E-11	0.00E+00	4.82E-08	1.27E-09	5.33E-09	2.55E-12	0.00E+00	6.60E-09	7.77E-10	2.45E-09	5.92E-13	0.00E+00	3.23E-09
2865	420366.37	3735066.83	9.14E-09	3.86E-08	1.69E-11	0.00E+00	4.78E-08	1.25E-09	5.28E-09	2.52E-12	0.00E+00	6.53E-09	7.69E-10	2.43E-09	5.86E-13	0.00E+00	3.20E-09
2866	420357.93	3735063.44	9.04E-09	3.82E-08	1.67E-11	0.00E+00	4.72E-08	1.24E-09	5.22E-09	2.49E-12	0.00E+00	6.46E-09	7.60E-10	2.40E-09	5.79E-13	0.00E+00	3.16E-09
2867	420349.48	3735060.05	8.94E-09	3.77E-08	1.66E-11	0.00E+00	4.67E-08	1.22E-09	5.16E-09	2.47E-12	0.00E+00	6.39E-09	7.52E-10	2.37E-09	5.72E-13	0.00E+00	3.12E-09
2868	420341.04	3735056.66	8.83E-09	3.73E-08	1.64E-11	0.00E+00	4.61E-08	1.21E-09	5.10E-09	2.44E-12	0.00E+00	6.31E-09	7.43E-10	2.34E-09	5.66E-13	0.00E+00	3.09E-09
2869	420332.6	3735053.27	8.73E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.04E-09	2.41E-12	0.00E+00	6.24E-09	7.34E-10	2.32E-09	5.59E-13	0.00E+00	3.05E-09
2870	420324.15	3735049.88	8.62E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.98E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
2871	420315.71	3735046.49	8.52E-09	3.60E-08	1.58E-11	0.00E+00	4.45E-08	1.17E-09	4.92E-09	2.35E-12	0.00E+00	6.09E-09	7.17E-10	2.26E-09	5.46E-13	0.00E+00	2.98E-09
2872	420307.26	3735043.1	8.41E-09	3.55E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.01E-09	7.08E-10	2.23E-09	5.39E-13	0.00E+00	2.94E-09
2873	420298.82	3735039.71	8.31E-09	3.51E-08	1.54E-11	0.00E+00	4.34E-08	1.14E-09	4.80E-09	2.29E-12	0.00E+00	5.94E-09	6.99E-10	2.20E-09	5.32E-13	0.00E+00	2.90E-09
2874	420290.38	3735036.32	8.20E-09	3.46E-08	1.52E-11	0.00E+00	4.29E-08	1.12E-09	4.74E-09	2.26E-12	0.00E+00	5.86E-09	6.90E-10	2.18E-09	5.26E-13	0.00E+00	2.87E-09
2875	420281.93	3735032.93	8.10E-09	3.42E-08	1.50E-11	0.00E+00	4.23E-08	1.11E-09	4.68E-09	2.23E-12	0.00E+00	5.79E-09	6.81E-10	2.15E-09	5.19E-13	0.00E+00	2.83E-09
2876	420273.49	3735029.54	7.99E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.10E-09	4.61E-09	2.21E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.12E-13	0.00E+00	2.79E-09
2877	420265.04	3735026.15	7.88E-09	3.33E-08	1.46E-11	0.00E+00	4.12E-08	1.08E-09	4.55E-09	2.17E-12	0.00E+00	5.63E-09	6.63E-10	2.09E-09	5.05E-13	0.00E+00	2.75E-09
2878	420256.6	3735022.76	7.77E-09	3.28E-08	1.44E-11	0.00E+00	4.06E-08	1.07E-09	4.49E-09	2.15E-12	0.00E+00	5.56E-09	6.54E-10	2.06E-09	4.98E-13	0.00E+00	2.72E-09
2879	420248.15	3735019.37	7.67E-09	3.24E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.48E-09	6.45E-10	2.03E-09	4.91E-13	0.00E+00	2.68E-09
2880	420239.71	3735015.98	7.56E-09	3.19E-08	1.40E-11	0.00E+00	3.95E-08	1.04E-09	4.36E-09	2.09E-12	0.00E+00	5.40E-09	6.36E-10	2.01E-09	4.84E-13	0.00E+00	2.64E-09
2881	420231.27	3735012.59	7.44E-09	3.14E-08	1.38E-11	0.00E+00	3.89E-08	1.02E-09	4.30E-09	2.05E-12	0.00E+00	5.32E-09	6.26E-10	1.98E-09	4.77E-13	0.00E+00	2.60E-09
2882	420222.82	3735009.2	7.33E-09	3.09E-08	1.36E-11	0.00E+00	3.83E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.94E-09	4.69E-13	0.00E+00	2.56E-09
2883	420210.87	3734997.41	7.24E-09	3.06E-08	1.34E-11	0.00E+00	3.78E-08	9.93E-10	4.18E-09	2.00E-12	0.00E+00	5.18E-09	6.09E-10	1.92E-09	4.64E-13	0.00E+00	2.53E-09
2884	420207.35	3734989.02	7.28E-09	3.07E-08	1.35E-11	0.00E+00	3.80E-08	9.98E-10	4.20E-09	2.01E-12	0.00E+00	5.20E-09	6.12E-10	1.93E-09	4.66E-13	0.00E+00	2.54E-09
2885	420203.84	3734980.62	7.31E-09	3.09E-08	1.36E-11	0.00E+00	3.82E-08	1.00E-09	4.22E-09	2.02E-12	0.00E+00	5.23E-09	6.15E-10	1.94E-09	4.69E-13	0.00E+00	2.56E-09
2886	420196.82	3734963.83	7.38E-09	3.11E-08	1.37E-11	0.00E+00	3.85E-08	1.01E-09	4.26E-09	2.04E-12	0.00E+00	5.27E-09	6.21E-10	1.96E-09	4.72E-13	0.00E+00	2.58E-09
2887	420189.79	3734947.05	7.42E-09	3.13E-08	1.38E-11	0.00E+00	3.88E-08	1.02E-09	4.29E-09	2.05E-12	0.00E+00	5.31E-09	6.25E-10	1.97E-09	4.76E-13	0.00E+00	2.60E-09
2888	420182.76	3734930.26	7.46E-09	3.15E-08	1.38E-11	0.00E+00	3.89E-08	1.02E-09	4.30E-09	2.06E-12	0.00E+00	5.33E-09	6.27E-10	1.98E-09	4.78E-13	0.00E+00	2.61E-09
2889	420179.25	3734921.86	7.47E-09	3.15E-08	1.38E-11	0.00E+00	3.90E-08	1.02E-09	4.31E-09	2.06E-12	0.00E+00	5.34E-09	6.28E-10	1.98E-09	4.78E-13	0.00E+00	2.61E-09
2890	420172.23	3734905.08	7.50E-09	3.17E-08	1.39E-11	0.00E+00	3.92E-08	1.03E-09	4.33E-09	2.07E-12	0.00E+00	5.36E-09	6.31E-10	1.99E-09	4.80E-13	0.00E+00	2.62E-09
2891	420165.2	3734888.29	7.51E-09	3.17E-08	1.39E-11	0.00E+00	3.93E-08	1.03E-09	4.34E-09	2.07E-12	0.00E+00	5.37E-09	6.32E-10	1.99E-09	4.81E-13	0.00E+00	2.63E-09
2892	420133.59	3734812.74	7.44E-09	3.14E-08	1.38E-11	0.00E+00	3.89E-08	1.02E-09	4.30E-09	2.05E-12	0.00E+00	5.32E-09	6.26E-10	1.97E-09	4.77E-13	0.00E+00	2.60E-09
2893	420130.07	3734804.35	7.42E-09	3.13E-08	1.38E-11	0.00E+00	3.88E-08	1.02E-09	4.29E-09	2.05E-12	0.00E+00	5.31E-09	6.25E-10	1.97E-09	4.76E-13	0.00E+00	2.60E-09
2894	420098.46	3734728.8	7.17E-09	3.03E-08	1.33E-11	0.00E+00	3.74E-08	9.82E-10	4.14E-09	1.98E-12	0.00E+00	5.12E-09	6.03E-10	1.90E-09	4.59E-13	0.00E+00	2.51E-09
2895	420091.44	3734712.01	7.08E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.70E-10	4.09E-09	1.95E-12	0.00E+00	5.06E-09	5.95E-10	1.88E-09	4.53E-13	0.00E+00	2.47E-09
2896	420087.92	3734703.62	7.04E-09	2.97E-08	1.30E-11	0.00E+00	3.68E-08	9.64E-10	4.06E-09	1.94E-12	0.00E+00	5.03E-09	5.92E-10	1.87E-09	4.51E-13	0.00E+00	2.46E-09
2897	420080.9	3734686.83	7.00E-09	2.96E-08	1.30E-11	0.00E+00	3.66E-08	9.60E-10	4.04E-09	1.93E-12	0.00E+00	5.00E-09	5.89E-10	1.86E-09	4.49E-13	0.00E+00	2.45E-09
2898	420073.87	3734670.04	6.97E-09	2.94E-08	1.29E-11	0.00E+00	3.64E-08	9.56E-10	4.03E-09	1.92E-12	0.00E+00	4.98E-09	5.87E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
2899	420066.85	3734653.26	6.90E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.45E-10	3.98E-09	1.90E-12	0.00E+00	4.93E-09	5.80E-10	1.83E-09	4.42E-13	0.00E+00	2.41E-09
2900	420063.33	3734644.86	6.85E-09	2.89E-08	1.27E-11	0.00E+00	3.58E-08	9.40E-10	3.96E-09	1.89E-12	0.00E+00	4.90E-09	5.77E-10	1.82E-09	4.39E-13	0.00E+00	2.40E-09
2901	420056.31	3734628.07	6.76E-09	2.86E-08	1.25E-11	0.00E+00	3.53E-08	9.27E-10	3.91E-09	1.87E-12	0.00E+00	4.83E-09	5.69E-10	1.80E-09	4.33E-13	0.00E+00	2.36E-09
2902	420687.25	3735195.67	2.09E-08	8.85E-08	3.88E-11	0.00E+00	1.09E-07	2.87E-09	1.21E-08	5.78E-12	0.00E+00	1.50E-08	1.76E-09	5.56E-09	1.34E-12	0.00E+00	7.32E-09
2903	420696.43	3735195.54	2.21E-08	9.34E-08	4.10E-11	0.00E+00	1.16E-07	3.03E-09	1.28E-08	6.10E-12	0.00E+00	1.58E-08	1.86E-09	5.87E-09	1.42E-12	0.00E+00	7.73E-09
2904	420705.62	3735195.4	2.34E-08	9.88E-08	4.34E-11	0.00E+00	1.22E-07	3.21E-09	1.35E-08	6.46E-12	0.00E+00	1.67E-08	1.97E-09	6.21E-09	1.50E-12	0.00E+00	8.18E-09
2905	420733.18	3735195	2.80E-08	1.18E-07	5.19E-11	0.00E+00	1.46E-07	3.84E-09	1.62E-08	7.73E-12	0.00E+00	2.00E-08	2.36E-09	7.43E-09	1.79E-12	0.00E+00	9.79E-09
2906	420742.37	3735194.87	2.98E-08	1.26E-07	5.53E-11	0.00E+00	1.56E-07	4.09E-09	1.72E-08	8.23E-12	0.00E+00	2.13E-08	2.51E-09	7.92E-09	1.91E-12	0.00E+00	1.04E-08
2907	420679.33	3735232.25	1.80E-08	7.61E-08	3.34E-11	0.00E+00	9.41E-08	2.47E-09	1.04E-08	4.97E-12	0.00E+00	1.29E-08	1.52E-09	4.78E-09	1.15E-12	0.00E+00	6.30E-09
2908	420670.83	3735228.84	1.74E-08	7.35E-08	3.23E-11	0.00E+00	9.10E-08	2.39E-09	1.01E-08	4.81E-12	0.00E+00	1.24E-08	1.47E-09	4.62E-09	1.12E-12	0.00E+00	6.09E-09
2909	420662.33	3735225.43	1.69E-08	7.12E-08	3.12E-11	0.00E+00	8.81E-08	2.31E-09	9.73E-09	4.65E-12	0.00E+00	1.20E-08	1.42E-09	4.47E-09	1.08E-12	0.00E+00	5.89E-09
2910	420653.83	3735222.01	1.63E-08	6.90E-08	3.03E-11	0.00E+00	8.54E-08	2.24E-09	9.44E-09	4.51E-12	0.00E+00	1.17E-08	1.37E-09	4.34E-09	1.05E-12	0.00E+00	5.71E-09
2911	420645.33	3735218.6	1.59E-08	6.70E-08	2.94E-11	0.00E+00	8.28E-08	2.17E-09	9.16E-09	4.38E-12	0.00E+00	1.13E-08	1.33E-09	4.21E-09	1.02E-12	0.00E+00	5.54E-09
2912	420636.83	3735215.19	1.54E-08	6.50E-08	2.85E-11	0.00E+00	8.04E-08	2.11E-09	8.89E-09	4.25E-12	0.00E+00	1.10E-08	1.30E-09	4.09E-09	9.86E-13	0.00E+00	5.38E-09
2913	420628.33	3735211.77	1.50E-08	6.32E-08	2.77E-11	0.00E+00	7.81E-08	2.05E-09	8.64E-09	4.13E-12	0.00E+00	1.07E-08	1.26E-09	3.97E-09	9.58E-13	0.00E+00	5.23E-09
2914	420619.82	3735208.36	1.45E-08	6.14E-08	2.69E-11	0.00E+00	7.60E-08	1.99E-09	8.39E-09	4.01E-12	0.00E+00	1.04E-08	1.22E-09	3.86E-09	9.31E-13	0.00E+00	5.08E-09
2915	420611.32	3735204.95	1.41E-08	5.97E-08	2.62E-11	0.00E+00	7.39E-08	1.94E-09	8.16E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.06E-13	0.00E+00	4.94E-09
2916	420602.82	3735201.54	1.38E-08	5.81E-08	2.55E-11	0.00E+00	7.19E-08	1.89E-09	7.95E-09	3.80E-12	0.00E+00	9.84E-09	1.16E-09	3.65E-09	8.82E-13	0.00E+00	4.81E-09
2917	420594.32	3735198.12	1.34E-08	5.65E-08	2.48E-11	0.00E+00	6.99E-08	1.83E-09	7.73E-09	3.69E-12	0.00E+00	9.56E-09	1.13E-09	3.55E-09	8.57E-13	0.00E+00	4.68E-09
2918	420585.82	3735194.71	1.30E-08	5.49E-08	2.41E-11	0.00E+00	6.79E-08	1.78E-09	7.51E-09	3.59E-12	0.00E+00	9.29E-09	1.09E-09	3.45E-09	8.33E-13	0.00E+00	4.54E-09
2919	420577.32	3735191.3	1.26E-08	5.34E-08	2.34E-11	0.00E+00	6.61E-08	1.73E-09	7.30E-09	3.49E-12	0.00E+00	9.04E-09	1.06E-09	3.36E-09	8.10E-13	0.00E+00	4.42E-09
2920	420568.82	3735187.88	1.23E-08	5.20E-08	2.28E-11	0.00E+00	6.43E-08	1.69E-09	7.11E-09	3.40E-12	0.00E+00	8.80E-09	1.04E-09	3.27E-09	7.88E-13	0.00E+00	4.30E-09
2921	420560.32	3735184.47	1.20E-08	5.06E-08	2.22E-11	0.00E+00	6.26E-08	1.64E-09	6.92E-09	3.31E-12	0.00E+00	8.57E-09	1.01E-09	3.18E-09	7.68E-13	0.00E+00	4.19E-09
2922	420551.82	3735181.06	1.17E-08	4.94E-08	2.17E-11	0.00E+00	6.11E-08	1.60E-09	6.75E-09	3.23E-12	0.00E+00	8.35E-09	9.83E-10	3.10E-09	7.49E-13	0.00E+00	4.09E-09
2923	420543.32	3735177.64	1.14E-08	4.82E-08	2.11E-11	0.00E+00	5.96E-08	1.56E-09	6.59E-09	3.15E-12	0.00E+00	8.15E-09	9.60E-10	3.03E-09	7.31E-13	0.00E+00	3.99E-09
2924	420534.82	3735174.23	1.11E-08	4.70E-08	2.06E-11	0.00E+00	5.82E-08	1.53E-09	6.43E-09	3.07E-12	0.00E+00	7.96E-09	9.37E-10	2.96E-09	7.13E-13	0.00E+00	3.89E-09
2925	420526.32	3735170.82	1.09E-08	4.59E-08	2.02E-11	0.00E+00	5.68E-08	1.49E-09	6.28E-09	3.00E-12	0.00E+00	7.77E-09	9.15E-10	2.89E-09	6.97E-13	0.00E+00	3.80E-09
2926	420517.82	3735167.4	1.06E-08	4.49E-08	1.97E-11	0.00E+00	5.55E-08	1.46E-09	6.14E-09	2.93E-12	0.00E+00	7.59E-09	8.94E-10	2.82E-09	6.81E-13	0.00E+00	3.71E-09
2927	420509.32	3735163.99	1.04E-08	4.39E-08	1.92E-11	0.00E+00	5.43E-08	1.42E-09	6.00E-09	2.87E-12	0.00E+00	7.42E-09	8.74E-10	2.76E-09	6.65E-13	0.00E+00	3.63E-09
2928	420500.82	3735160.58	1.02E-08	4.29E-08	1.88E-11	0.00E+00	5.31E-08	1.39E-09	5.87E-09	2.81E-12	0.00E+00	7.27E-09	8.55E-10	2.70E-09	6.51E-13	0.00E+00	3.55E-09
2929	420466.82	3735146.93	9.51E-09	4.01E-08	1.76E-11	0.00E+00	4.97E-08	1.30E-09	5.49E-09	2.62E-12	0.00E+00	6.79E-09	8.00E-10	2.52E-09	6.09E-13	0.00E+00	3.32E-09
2930	420458.32	3735143.51	9.39E-09	3.96E-08	1.74E-11	0.00E+00	4.91E-08	1.29E-09	5.42E-09	2.59E-12	0.00E+00	6.71E-09	7.90E-10	2.49E-09	6.01E-13	0.00E+00	3.28E-09
2931	420449.82	3735140.1	9.29E-09	3.92E-08	1.72E-11	0.00E+00	4.85E-08	1.27E-09	5.36E-09	2.56E-12	0.00E+00	6.64E-09	7.81E-10	2.46E-09	5.95E-13	0.00E+00	3.25E-09
2932	420441.31	3735136.69	9.17E-09	3.87E-08	1.70E-11	0.00E+00	4.79E-08	1.26E-09	5.30E-09	2.53E-12	0.00E+00	6.56E-09	7.72E-10	2.43E-09	5.88E-13	0.00E+00	3.21E-09
2933	420432.81	3735133.27	9.07E-09	3.83E-08	1.68E-11	0.00E+00	4.74E-08	1.24E-09	5.24E-09	2.50E-12	0.00E+00	6.49E-09	7.63E-10	2.41E-09	5.81E-13	0.00E+00	3.17E-09
2934	420424.31	3735129.86	8.98E-09	3.79E-08	1.66E-11	0.00E+00	4.69E-08	1.23E-09	5.18E-09	2.48E-12	0.00E+00	6.42E-09	7.55E-10	2.38E-09	5.75E-13	0.00E+00	3.14E-09
2935	420415.81	3735126.45	8.87E-09	3.75E-08	1.64E-11	0.00E+00	4.63E-08	1.22E-09	5.12E-09	2.45E-12	0.00E+00	6.34E-09	7.46E-10	2.35E-09	5.68E-13	0.00E+00	3.10E-09
2936	420407.31	3735123.03	8.77E-09	3.70E-08	1.62E-11	0.00E+00	4.58E-08	1.20E-09	5.06E-09	2.42E-12	0.00E+00	6.27E-09	7.38E-10	2.33E-09	5.62E-13	0.00E+00	3.06E-09
2937	420398.81	3735119.62	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.00E-09	2.39E-12	0.00E+00	6.20E-09	7.29E-10	2.30E-09	5.55E-13	0.00E+00	3.03E-09
2938	420390.31	3735116.21	8.57E-09	3.62E-08	1.59E-11	0.00E+00	4.48E-08	1.17E-09	4.95E-09	2.37E-12	0.00E+00	6.13E-09	7.21E-10	2.27E-09	5.49E-13	0.00E+00	3.00E-09
2939	420381.81	3735112.79	8.48E-09	3.58E-08	1.57E-11	0.00E+00	4.43E-08	1.16E-09	4.90E-09	2.34E-12	0.00E+00	6.06E-09	7.13E-10	2.25E-09	5.43E-13	0.00E+00	2.96E-09
2940	420373.31	3735109.38	8.37E-09	3.54E-08	1.55E-11	0.00E+00	4.37E-08	1.15E-09	4.83E-09	2.31E-12	0.00E+00	5.98E-09	7.04E-10	2.22E-09	5.36E-13	0.00E+00	2.93E-09

2941	420364.81	3735105.97	8.27E-09	3.49E-08	1.53E-11	0.00E+00	4.32E-08	1.13E-09	4.77E-09	2.28E-12	0.00E+00	5.91E-09	6.96E-10	2.19E-09	5.30E-13	0.00E+00	2.89E-09
2942	420356.31	3735102.56	8.18E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.72E-09	2.26E-12	0.00E+00	5.85E-09	6.88E-10	2.17E-09	5.24E-13	0.00E+00	2.86E-09
2943	420347.81	3735099.14	8.11E-09	3.43E-08	1.50E-11	0.00E+00	4.24E-08	1.11E-09	4.69E-09	2.24E-12	0.00E+00	5.80E-09	6.83E-10	2.15E-09	5.20E-13	0.00E+00	2.84E-09
2944	420339.31	3735095.73	8.04E-09	3.39E-08	1.49E-11	0.00E+00	4.20E-08	1.10E-09	4.64E-09	2.22E-12	0.00E+00	5.74E-09	6.76E-10	2.13E-09	5.15E-13	0.00E+00	2.81E-09
2945	420330.81	3735092.32	7.95E-09	3.36E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.59E-09	2.19E-12	0.00E+00	5.68E-09	6.69E-10	2.11E-09	5.09E-13	0.00E+00	2.78E-09
2946	420322.31	3735088.9	7.86E-09	3.32E-08	1.46E-11	0.00E+00	4.11E-08	1.08E-09	4.54E-09	2.17E-12	0.00E+00	5.62E-09	6.62E-10	2.09E-09	5.04E-13	0.00E+00	2.75E-09
2947	420313.81	3735085.49	7.78E-09	3.28E-08	1.44E-11	0.00E+00	4.06E-08	1.07E-09	4.49E-09	2.15E-12	0.00E+00	5.56E-09	6.54E-10	2.06E-09	4.98E-13	0.00E+00	2.72E-09
2948	420305.31	3735082.08	7.69E-09	3.25E-08	1.43E-11	0.00E+00	4.02E-08	1.05E-09	4.44E-09	2.12E-12	0.00E+00	5.50E-09	6.47E-10	2.04E-09	4.93E-13	0.00E+00	2.69E-09
2949	420296.81	3735078.66	7.61E-09	3.21E-08	1.41E-11	0.00E+00	3.97E-08	1.04E-09	4.39E-09	2.10E-12	0.00E+00	5.44E-09	6.40E-10	2.02E-09	4.87E-13	0.00E+00	2.66E-09
2950	420288.31	3735075.25	7.52E-09	3.17E-08	1.39E-11	0.00E+00	3.93E-08	1.03E-09	4.34E-09	2.07E-12	0.00E+00	5.37E-09	6.32E-10	1.99E-09	4.82E-13	0.00E+00	2.63E-09
2951	420279.81	3735071.84	7.43E-09	3.14E-08	1.38E-11	0.00E+00	3.88E-08	1.02E-09	4.29E-09	2.05E-12	0.00E+00	5.31E-09	6.25E-10	1.97E-09	4.76E-13	0.00E+00	2.60E-09
2952	420271.3	3735068.42	7.34E-09	3.10E-08	1.36E-11	0.00E+00	3.84E-08	1.01E-09	4.24E-09	2.03E-12	0.00E+00	5.25E-09	6.18E-10	1.95E-09	4.70E-13	0.00E+00	2.57E-09
2953	420262.8	3735065.01	7.25E-09	3.06E-08	1.34E-11	0.00E+00	3.79E-08	9.94E-10	4.19E-09	2.00E-12	0.00E+00	5.18E-09	6.10E-10	1.92E-09	4.65E-13	0.00E+00	2.54E-09
2954	420254.3	3735061.6	7.16E-09	3.02E-08	1.33E-11	0.00E+00	3.74E-08	9.82E-10	4.14E-09	1.98E-12	0.00E+00	5.12E-09	6.03E-10	1.90E-09	4.59E-13	0.00E+00	2.50E-09
2955	420245.8	3735058.19	7.07E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.70E-10	4.08E-09	1.95E-12	0.00E+00	5.06E-09	5.95E-10	1.88E-09	4.53E-13	0.00E+00	2.47E-09
2956	420237.3	3735054.77	6.98E-09	2.95E-08	1.29E-11	0.00E+00	3.65E-08	9.57E-10	4.03E-09	1.93E-12	0.00E+00	4.99E-09	5.88E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
2957	420228.8	3735051.36	6.89E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.45E-10	3.98E-09	1.90E-12	0.00E+00	4.93E-09	5.80E-10	1.83E-09	4.41E-13	0.00E+00	2.41E-09
2958	420220.3	3735047.95	6.80E-09	2.87E-08	1.26E-11	0.00E+00	3.55E-08	9.32E-10	3.93E-09	1.88E-12	0.00E+00	4.86E-09	5.72E-10	1.81E-09	4.36E-13	0.00E+00	2.38E-09
2959	420211.8	3735044.53	6.71E-09	2.83E-08	1.24E-11	0.00E+00	3.51E-08	9.20E-10	3.88E-09	1.85E-12	0.00E+00	4.80E-09	5.65E-10	1.78E-09	4.30E-13	0.00E+00	2.35E-09
2960	420203.3	3735041.12	6.62E-09	2.80E-08	1.23E-11	0.00E+00	3.46E-08	9.08E-10	3.82E-09	1.83E-12	0.00E+00	4.73E-09	5.57E-10	1.76E-09	4.24E-13	0.00E+00	2.31E-09
2961	420194.8	3735037.71	6.53E-09	2.76E-08	1.21E-11	0.00E+00	3.41E-08	8.95E-10	3.77E-09	1.80E-12	0.00E+00	4.67E-09	5.49E-10	1.73E-09	4.18E-13	0.00E+00	2.28E-09
2962	420182.76	3735025.84	6.47E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.87E-10	3.74E-09	1.79E-12	0.00E+00	4.62E-09	5.44E-10	1.72E-09	4.14E-13	0.00E+00	2.26E-09
2963	420175.69	3735008.94	6.52E-09	2.75E-08	1.21E-11	0.00E+00	3.41E-08	8.94E-10	3.76E-09	1.80E-12	0.00E+00	4.66E-09	5.49E-10	1.73E-09	4.18E-13	0.00E+00	2.28E-09
2964	420172.16	3735000.49	6.53E-09	2.76E-08	1.21E-11	0.00E+00	3.41E-08	8.96E-10	3.77E-09	1.80E-12	0.00E+00	4.67E-09	5.50E-10	1.73E-09	4.19E-13	0.00E+00	2.28E-09
2965	420168.62	3734992.04	6.56E-09	2.77E-08	1.22E-11	0.00E+00	3.43E-08	8.99E-10	3.79E-09	1.81E-12	0.00E+00	4.69E-09	5.52E-10	1.74E-09	4.20E-13	0.00E+00	2.29E-09
2966	420165.08	3734983.59	6.58E-09	2.78E-08	1.22E-11	0.00E+00	3.44E-08	9.02E-10	3.80E-09	1.82E-12	0.00E+00	4.70E-09	5.53E-10	1.75E-09	4.21E-13	0.00E+00	2.30E-09
2967	420158.01	3734966.69	6.62E-09	2.79E-08	1.23E-11	0.00E+00	3.46E-08	9.07E-10	3.82E-09	1.83E-12	0.00E+00	4.73E-09	5.57E-10	1.76E-09	4.24E-13	0.00E+00	2.31E-09
2968	420154.48	3734958.24	6.64E-09	2.80E-08	1.23E-11	0.00E+00	3.47E-08	9.10E-10	3.83E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
2969	420150.94	3734949.79	6.66E-09	2.81E-08	1.23E-11	0.00E+00	3.48E-08	9.13E-10	3.85E-09	1.84E-12	0.00E+00	4.76E-09	5.60E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
2970	420147.4	3734941.34	6.67E-09	2.82E-08	1.24E-11	0.00E+00	3.48E-08	9.14E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.61E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
2971	420140.33	3734924.44	6.68E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.15E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.62E-10	1.77E-09	4.28E-13	0.00E+00	2.33E-09
2972	420136.79	3734915.99	6.68E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.15E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.62E-10	1.77E-09	4.28E-13	0.00E+00	2.33E-09
2973	420133.26	3734907.54	6.68E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.15E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.62E-10	1.77E-09	4.28E-13	0.00E+00	2.33E-09
2974	420129.72	3734899.09	6.67E-09	2.82E-08	1.24E-11	0.00E+00	3.49E-08	9.15E-10	3.85E-09	1.84E-12	0.00E+00	4.77E-09	5.61E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
2975	420122.65	3734882.19	6.66E-09	2.81E-08	1.23E-11	0.00E+00	3.48E-08	9.14E-10	3.85E-09	1.84E-12	0.00E+00	4.76E-09	5.61E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
2976	420119.11	3734873.74	6.66E-09	2.81E-08	1.23E-11	0.00E+00	3.48E-08	9.13E-10	3.84E-09	1.84E-12	0.00E+00	4.76E-09	5.60E-10	1.77E-09	4.27E-13	0.00E+00	2.33E-09
2977	420115.58	3734865.29	6.65E-09	2.81E-08	1.23E-11	0.00E+00	3.47E-08	9.11E-10	3.84E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.26E-13	0.00E+00	2.32E-09
2978	420112.04	3734856.84	6.64E-09	2.80E-08	1.23E-11	0.00E+00	3.47E-08	9.10E-10	3.83E-09	1.83E-12	0.00E+00	4.75E-09	5.59E-10	1.76E-09	4.25E-13	0.00E+00	2.32E-09
2979	420104.97	3734839.94	6.62E-09	2.79E-08	1.23E-11	0.00E+00	3.46E-08	9.07E-10	3.82E-09	1.83E-12	0.00E+00	4.73E-09	5.57E-10	1.76E-09	4.24E-13	0.00E+00	2.31E-09
2980	420101.43	3734831.49	6.61E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.06E-10	3.81E-09	1.82E-12	0.00E+00	4.72E-09	5.56E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
2981	420076.68	3734772.34	6.49E-09	2.74E-08	1.20E-11	0.00E+00	3.39E-08	8.90E-10	3.75E-09	1.79E-12	0.00E+00	4.64E-09	5.46E-10	1.72E-09	4.16E-13	0.00E+00	2.27E-09
2982	420069.61	3734755.44	6.44E-09	2.72E-08	1.19E-11	0.00E+00	3.37E-08	8.83E-10	3.72E-09	1.78E-12	0.00E+00	4.60E-09	5.42E-10	1.71E-09	4.13E-13	0.00E+00	2.25E-09
2983	420059	3734730.09	6.34E-09	2.68E-08	1.18E-11	0.00E+00	3.31E-08	8.69E-10	3.66E-09	1.75E-12	0.00E+00	4.53E-09	5.34E-10	1.68E-09	4.06E-13	0.00E+00	2.22E-09
2984	420051.93	3734713.19	6.23E-09	2.63E-08	1.15E-11	0.00E+00	3.25E-08	8.54E-10	3.60E-09	1.72E-12	0.00E+00	4.45E-09	5.24E-10	1.65E-09	3.99E-13	0.00E+00	2.18E-09
2985	420048.39	3734704.74	6.18E-09	2.61E-08	1.14E-11	0.00E+00	3.23E-08	8.47E-10	3.57E-09	1.70E-12	0.00E+00	4.42E-09	5.20E-10	1.64E-09	3.96E-13	0.00E+00	2.16E-09
2986	420044.86	3734696.29	6.14E-09	2.59E-08	1.14E-11	0.00E+00	3.21E-08	8.42E-10	3.55E-09	1.70E-12	0.00E+00	4.39E-09	5.17E-10	1.63E-09	3.93E-13	0.00E+00	2.15E-09
2987	420041.32	3734687.84	6.13E-09	2.59E-08	1.13E-11	0.00E+00	3.20E-08	8.40E-10	3.54E-09	1.69E-12	0.00E+00	4.38E-09	5.15E-10	1.63E-09	3.92E-13	0.00E+00	2.14E-09
2988	420034.25	3734670.94	6.08E-09	2.57E-08	1.13E-11	0.00E+00	3.18E-08	8.34E-10	3.51E-09	1.68E-12	0.00E+00	4.35E-09	5.12E-10	1.61E-09	3.90E-13	0.00E+00	2.13E-09
2989	420030.71	3734662.49	6.07E-09	2.56E-08	1.13E-11	0.00E+00	3.17E-08	8.33E-10	3.51E-09	1.68E-12	0.00E+00	4.34E-09	5.11E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
2990	420027.18	3734654.04	6.07E-09	2.56E-08	1.13E-11	0.00E+00	3.17E-08	8.33E-10	3.51E-09	1.68E-12	0.00E+00	4.34E-09	5.11E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
2991	420023.64	3734645.59	6.04E-09	2.55E-08	1.12E-11	0.00E+00	3.15E-08	8.27E-10	3.49E-09	1.67E-12	0.00E+00	4.31E-09	5.08E-10	1.60E-09	3.87E-13	0.00E+00	2.11E-09
2992	420687.83	3735235.67	1.87E-08	7.88E-08	3.46E-11	0.00E+00	9.75E-08	2.56E-09	1.08E-08	5.15E-12	0.00E+00	1.33E-08	1.57E-09	4.95E-09	1.20E-12	0.00E+00	6.52E-09
2993	420697.02	3735235.53	1.96E-08	8.28E-08	3.63E-11	0.00E+00	1.02E-07	2.69E-09	1.13E-08	5.41E-12	0.00E+00	1.40E-08	1.65E-09	5.20E-09	1.26E-12	0.00E+00	6.85E-09
2994	420706.2	3735235.4	2.06E-08	8.71E-08	3.82E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.69E-12	0.00E+00	1.47E-08	1.74E-09	5.47E-09	1.32E-12	0.00E+00	7.21E-09
2995	420733.76	3735235	2.42E-08	1.02E-07	4.49E-11	0.00E+00	1.27E-07	3.32E-09	1.40E-08	6.69E-12	0.00E+00	1.73E-08	2.04E-09	6.43E-09	1.55E-12	0.00E+00	8.48E-09
2996	420742.95	3735234.87	2.57E-08	1.08E-07	4.75E-11	0.00E+00	1.34E-07	3.52E-09	1.48E-08	7.08E-12	0.00E+00	1.83E-08	2.16E-09	6.81E-09	1.64E-12	0.00E+00	8.97E-09
2997	420771.64	3734561.95	9.81E-06	4.14E-05	1.82E-08	0.00E+00	5.12E-05	1.34E-06	5.66E-06	2.71E-09	0.00E+00	7.01E-06	8.25E-07	2.60E-06	6.28E-10	0.00E+00	3.43E-06
2998	420782.08	3734561.19	8.29E-06	3.50E-05	1.54E-08	0.00E+00	4.33E-05	1.14E-06	4.79E-06	2.29E-09	0.00E+00	5.92E-06	6.97E-07	2.20E-06	5.31E-10	0.00E+00	2.90E-06
2999	420766.7	3734581.09	7.90E-06	3.34E-05	1.46E-08	0.00E+00	4.13E-05	1.08E-06	4.56E-06	2.18E-09	0.00E+00	5.65E-06	6.65E-07	2.10E-06	5.06E-10	0.00E+00	2.76E-06
3000	420793.04	3734526.56	7.31E-06	3.09E-05	1.35E-08	0.00E+00	3.82E-05	1.00E-06	4.22E-06	2.02E-09	0.00E+00	5.22E-06	6.15E-07	1.94E-06	4.68E-10	0.00E+00	2.55E-06
3001	420793.3	3734516.58	6.94E-06	2.93E-05	1.29E-08	0.00E+00	3.62E-05	9.51E-07	4.01E-06	1.91E-09	0.00E+00	4.96E-06	5.84E-07	1.84E-06	4.44E-10	0.00E+00	2.42E-06
3002	420793.57	3734506.59	6.39E-06	2.70E-05	1.18E-08	0.00E+00	3.34E-05	8.76E-07	3.69E-06	1.76E-09	0.00E+00	4.57E-06	5.38E-07	1.70E-06	4.10E-10	0.00E+00	2.23E-06
3003	420792.37	3734560.77	6.98E-06	2.95E-05	1.29E-08	0.00E+00	3.65E-05	9.57E-07	4.03E-06	1.93E-09	0.00E+00	4.99E-06	5.87E-07	1.85E-06	4.47E-10	0.00E+00	2.44E-06
3004	420785.45	3734576.75	6.78E-06	2.86E-05	1.26E-08	0.00E+00	3.54E-05	9.30E-07	3.92E-06	1.87E-09	0.00E+00	4.85E-06	5.71E-07	1.80E-06	4.34E-10	0.00E+00	2.37E-06
3005	420773.95	3734588.1	6.64E-06	2.80E-05	1.23E-08	0.00E+00	3.47E-05	9.10E-07	3.83E-06	1.83E-09	0.00E+00	4.75E-06	5.59E-07	1.76E-06	4.25E-10	0.00E+00	2.32E-06
3006	420757.9	3734594.84	6.45E-06	2.73E-05	1.20E-08	0.00E+00	3.37E-05	8.85E-07	3.73E-06	1.78E-09	0.00E+00	4.61E-06	5.43E-07	1.71E-06	4.13E-10	0.00E+00	2.26E-06
3007	420803.03	3734526.83	5.88E-06	2.48E-05	1.09E-08	0.00E+00	3.07E-05	8.06E-07	3.40E-06	1.62E-09	0.00E+00	4.20E-06	4.95E-07	1.56E-06	3.77E-10	0.00E+00	2.06E-06
3008	420803.3	3734516.84	5.54E-06	2.34E-05	1.03E-08	0.00E+00	2.89E-05	7.59E-07	3.20E-06	1.53E-09	0.00E+00	3.96E-06	4.66E-07	1.47E-06	3.55E-10	0.00E+00	1.94E-06
3009	420803.57	3734506.86	5.08E-06	2.15E-05	9.42E-09	0.00E+00	2.66E-05	6.97E-07	2.93E-06	1.40E-09	0.00E+00	3.63E-06	4.28E-07	1.35E-06	3.26E-10	0.00E+00	1.78E-06
3010	420800.89	3734564.46	5.94E-06	2.51E-05	1.10E-08	0.00E+00	3.10E-05	8.15E-07	3.43E-06	1.64E-09	0.00E+00	4.25E-06	5.00E-07	1.58E-06	3.81E-10	0.00E+00	2.08E-06
3011	420796.93	3734573.59	5.96E-06	2.52E-05	1.10E-08	0.00E+00	3.11E-05	8.17E-07	3.44E-06	1.64E-09	0.00E+00	4.26E-06	5.01E-07	1.58E-06	3.82E-10	0.00E+00	2.08E-06
3012	420792.97	3734582.72	5.80E-06	2.45E-05	1.07E-08	0.00E+00	3.03E-05	7.95E-07	3.35E-06	1.60E-09	0.00E+00	4.15E-06	4.88E-07	1.54E-06	3.72E-10	0.00E+00	2.03E-06
3013	420779.84	3734595.7	5.67E-06	2.39E-05	1.05E-08	0.00E+00	2.96E-05	7.77E-07	3.27E-06	1.56E-09	0.00E+00	4.05E-06	4.77E-07	1.50E-06	3.63E-10	0.00E+00	1.98E-06
3014	420770.66	3734599.55	5.66E-06	2.39E-05	1.05E-08	0.00E+00	2.96E-05	7.76E-07	3.27E-06	1.56E-09	0.00E+00	4.05E-06	4.77E-07	1.50E-06	3.63E-10	0.00E+00	1.98E-06
3015	420761.48	3734603.39	5.45E-06	2.30E-05	1.01E-08	0.00E+00	2.85E-05	7.47E-07	3.15E-06	1.50E-09	0.00E+00	3.89E-06	4.58E-07	1.45E-06	3.49E-10	0.00E+00	1.90E-06
3016	420812.76	3734537.08	4.99E-06	2.11E-05	9.25E-09	0.00E+00	2.61E-05	6.84E-07	2.88E-06	1.38E-09	0.00E+00	3.57E-06	4.20E-07	1.32E-06	3.20E-10	0.00E+00	1.75E-06
3017	420813.03	3734527.09	4.79E-06	2.02E-05	8.87E-09	0.00E+00	2.50E-05	6.57E-07	2.77E-06	1.32E-09	0.00E+00	3.42E-06	4.03E-07	1.27E-06	3.07E-10	0.00E+00	1.67E-06
3018	420813.29	3734517.11	4.49E-06	1.89E-05	8.31E-09	0.00E+00	2.34E-05	6.15E-07	2.59E-06	1.24E-09	0.00E+00	3.21E-06	3.77E-07	1.19E-06	2.87E-10	0.00E+00	1.57E-06
3019	420813.56	3734507.13	4.11E-06	1.74E-05	7.62E-09	0.00E+00	2.15E-05	5.64E-07	2.37E-06	1.13E-09	0.00E+00	2.94E-06	3.46E-07	1.09E-06	2.63E-10	0.00E+00	1.44E-06
3020	420811.31	3734563.75	5.04E-06	2.13E-05	9.34E-09	0.00E+00	2.63E-05	6.91E-07	2.91E-06	1.39E-09	0.00E+00	3.60E-06	4.24E-07	1.34E-06	3.23E-10	0.00E+00	1.76E-06
3021	420807.49	3734572.56	5.14E-06	2.17E-05	9.53E-09	0.00E+00	2.69E-05	7.05E-07	2.97E-06	1.42E-09	0.00E+00	3.68E-06	4.33E-07	1.36E-06	3.29E-10	0.00E+00	1.80E-06
3022	420803.67	3734581.36	5.12E-06	2.16E-05	9.49E-09	0.00E+00	2.68E-05	7.02E-07	2.96E-06	1.41E-09	0.00E+00	3.66E-06	4.31E-07	1.36E-06	3.28E-10	0.00E+00	1.79E-06
3023	420799.86	3734590.16	4.98E-06	2.10E-05	9.23E-09	0.00E+00	2.60E-05	6.83E-07	2.88E-06	1.38E-09	0.00E+00	3.56E-06	4.19E-07	1.32E-06	3.19E-10	0.00E+00	1.74E-06
3024	420787.19	3734602.68	4.88E-06	2.06E-05	9.05E-09	0.00E+00	2.55E-05	6.69E-07	2.82E-06	1.35E-09	0.00E+00	3.49E-06	4.11E-07	1.30E-06	3.13E-10	0.00E+00	1.71E-06
3025	420778.34	3734606.38	4.90E-06	2.07E-05	9.08E-09	0.00E+00	2.56E-05	6.72E-07	2.83E-06	1.35E-09	0.00E+00	3.50E-06	4.12E-07	1.30E-06	3.14E-10	0.00E+00	1.71E-06
3026	420769.49	3734610.09	4.77E-06	2.02E-05	8.85E-09	0.00E+00	2.49E-05	6.54E-07	2.76E-06	1.32E-09	0.00E+00	3.41E-06	4.02E-07	1.27E-06	3.06E-10	0.00E+00	1.67E-06
3027	420760.64	3734613.8	4.49E-06	1.90E-05	8.32E-09	0.00E+00	2.35E-05	6.16E-07	2.59E-06	1.24E-09	0.00E+00	3.21E-06	3.78E-07	1.19E-06	2.88E-10	0.00E+00	1.57E-06
3028	420751.79	3734617.51	4.07E-06	1.72E-05	7.54E-09	0.00E+00	2.13E-05	5.58E-07	2.35E-06	1.12E-09	0.00E+00	2.91E-06	3.43E-07	1.08E-06	2.61E-10	0.00E+00	1.42E-06
3029	420822.76	3734537.34	4.15E-06	1.75E-05	7.68E-09	0.00E+00	2.17E-05	5.68E-07	2.39E-06	1.14E-09	0.00E+00	2.96E-06	3.49E-07	1.10E-06	2.66E-10	0.00E+00	1.45E-06
3030	420823.02	3734527.36	3.95E-06	1.67E-05	7.32E-09	0.00E+00	2.07E-05	5.42E-07	2.28E-06	1.09E-09	0.00E+00	2.83E-06	3.33E-07	1.05E-06	2.53E-10	0.00E+00	1.38E-06
3031	420823.29	3734517.38	3.69E-06	1.56E-05	6.83E-09	0.00E+00	1.93E-05	5.06E-07	2.13E-06	1.02E-09	0.00E+00	2.64E-06	3.10E-07	9.79E-07	2.36E-10	0.00E+00	1.29E-06
3032	420823.56	3734507.39	3.38E-06	1.43E-05	6.25E-09	0.00E+00	1.76E-05	4.63E-07	1.95E-06	9.32E-10	0.00E+00	2.41E-06	2.84E-07	8.96E-07	2.16E-10	0.00E+00	1.18E-06

3033	420821.62	3734563.29	4.29E-06	1.81E-05	7.94E-09	0.00E+00	2.24E-05	5.88E-07	2.48E-06	1.18E-09	0.00E+00	3.06E-06	3.61E-07	1.14E-06	2.75E-10	0.00E+00	1.50E-06
3034	420817.91	3734571.85	4.43E-06	1.87E-05	8.20E-09	0.00E+00	2.31E-05	6.07E-07	2.56E-06	1.22E-09	0.00E+00	3.16E-06	3.72E-07	1.17E-06	2.84E-10	0.00E+00	1.55E-06
3035	420814.2	3734580.4	4.48E-06	1.89E-05	8.30E-09	0.00E+00	2.34E-05	6.14E-07	2.59E-06	1.24E-09	0.00E+00	3.20E-06	3.77E-07	1.19E-06	2.87E-10	0.00E+00	1.57E-06
3036	420810.49	3734588.96	4.44E-06	1.88E-05	8.23E-09	0.00E+00	2.32E-05	6.09E-07	2.57E-06	1.23E-09	0.00E+00	3.18E-06	3.74E-07	1.18E-06	2.85E-10	0.00E+00	1.55E-06
3037	420806.78	3734597.52	4.32E-06	1.83E-05	8.01E-09	0.00E+00	2.26E-05	5.93E-07	2.50E-06	1.19E-09	0.00E+00	3.09E-06	3.64E-07	1.15E-06	2.77E-10	0.00E+00	1.51E-06
3038	420794.46	3734609.69	4.25E-06	1.79E-05	7.87E-09	0.00E+00	2.22E-05	5.82E-07	2.45E-06	1.17E-09	0.00E+00	3.04E-06	3.57E-07	1.13E-06	2.72E-10	0.00E+00	1.48E-06
3039	420785.86	3734613.29	4.28E-06	1.81E-05	7.93E-09	0.00E+00	2.23E-05	5.86E-07	2.47E-06	1.18E-09	0.00E+00	3.06E-06	3.60E-07	1.14E-06	2.74E-10	0.00E+00	1.50E-06
3040	420777.26	3734616.9	4.20E-06	1.77E-05	7.78E-09	0.00E+00	2.19E-05	5.76E-07	2.43E-06	1.16E-09	0.00E+00	3.00E-06	3.53E-07	1.11E-06	2.69E-10	0.00E+00	1.47E-06
3041	420768.65	3734620.5	4.01E-06	1.70E-05	7.44E-09	0.00E+00	2.10E-05	5.50E-07	2.32E-06	1.11E-09	0.00E+00	2.87E-06	3.38E-07	1.07E-06	2.57E-10	0.00E+00	1.40E-06
3042	420760.05	3734624.11	3.72E-06	1.57E-05	6.89E-09	0.00E+00	1.94E-05	5.10E-07	2.15E-06	1.03E-09	0.00E+00	2.66E-06	3.13E-07	9.87E-07	2.38E-10	0.00E+00	1.30E-06
3043	420751.45	3734627.72	3.34E-06	1.41E-05	6.18E-09	0.00E+00	1.74E-05	4.57E-07	1.93E-06	9.21E-10	0.00E+00	2.38E-06	2.81E-07	8.85E-07	2.14E-10	0.00E+00	1.17E-06
3044	420832.75	3734537.61	3.48E-06	1.47E-05	6.44E-09	0.00E+00	1.82E-05	4.77E-07	2.01E-06	9.60E-10	0.00E+00	2.49E-06	2.93E-07	9.23E-07	2.23E-10	0.00E+00	1.22E-06
3045	420833.02	3734527.63	3.30E-06	1.39E-05	6.11E-09	0.00E+00	1.72E-05	4.52E-07	1.90E-06	9.10E-10	0.00E+00	2.36E-06	2.78E-07	8.76E-07	2.11E-10	0.00E+00	1.15E-06
3046	420833.29	3734517.64	3.07E-06	1.30E-05	5.69E-09	0.00E+00	1.60E-05	4.21E-07	1.77E-06	8.47E-10	0.00E+00	2.19E-06	2.58E-07	8.15E-07	1.97E-10	0.00E+00	1.07E-06
3047	420833.55	3734507.66	2.81E-06	1.19E-05	5.20E-09	0.00E+00	1.47E-05	3.85E-07	1.62E-06	7.75E-10	0.00E+00	2.01E-06	2.36E-07	7.45E-07	1.80E-10	0.00E+00	9.82E-07
3048	420840.87	3734565.53	3.20E-06	1.35E-05	5.92E-09	0.00E+00	1.67E-05	4.38E-07	1.85E-06	8.82E-10	0.00E+00	2.28E-06	2.69E-07	8.48E-07	2.05E-10	0.00E+00	1.12E-06
3049	420836.91	3734574.66	3.35E-06	1.41E-05	6.20E-09	0.00E+00	1.75E-05	4.59E-07	1.93E-06	9.23E-10	0.00E+00	2.39E-06	2.82E-07	8.88E-07	2.14E-10	0.00E+00	1.17E-06
3050	420832.96	3734583.79	3.44E-06	1.45E-05	6.38E-09	0.00E+00	1.80E-05	4.72E-07	1.99E-06	9.49E-10	0.00E+00	2.46E-06	2.89E-07	9.13E-07	2.20E-10	0.00E+00	1.20E-06
3051	420829	3734592.92	3.47E-06	1.47E-05	6.44E-09	0.00E+00	1.82E-05	4.76E-07	2.01E-06	9.59E-10	0.00E+00	2.48E-06	2.92E-07	9.22E-07	2.23E-10	0.00E+00	1.21E-06
3052	420825.04	3734602.05	3.45E-06	1.45E-05	6.38E-09	0.00E+00	1.80E-05	4.72E-07	1.99E-06	9.51E-10	0.00E+00	2.46E-06	2.90E-07	9.14E-07	2.21E-10	0.00E+00	1.20E-06
3053	420821.08	3734611.18	3.36E-06	1.42E-05	6.22E-09	0.00E+00	1.75E-05	4.60E-07	1.94E-06	9.26E-10	0.00E+00	2.40E-06	2.82E-07	8.91E-07	2.15E-10	0.00E+00	1.17E-06
3054	420807.95	3734624.16	3.31E-06	1.40E-05	6.13E-09	0.00E+00	1.73E-05	4.53E-07	1.91E-06	9.13E-10	0.00E+00	2.36E-06	2.78E-07	8.77E-07	2.12E-10	0.00E+00	1.16E-06
3055	420798.77	3734628	3.34E-06	1.41E-05	6.18E-09	0.00E+00	1.74E-05	4.57E-07	1.93E-06	9.21E-10	0.00E+00	2.38E-06	2.81E-07	8.85E-07	2.14E-10	0.00E+00	1.17E-06
3056	420789.59	3734631.85	3.29E-06	1.39E-05	6.09E-09	0.00E+00	1.72E-05	4.51E-07	1.90E-06	9.08E-10	0.00E+00	2.35E-06	2.77E-07	8.73E-07	2.11E-10	0.00E+00	1.15E-06
3057	420780.42	3734635.69	3.16E-06	1.34E-05	5.86E-09	0.00E+00	1.65E-05	4.33E-07	1.83E-06	8.72E-10	0.00E+00	2.26E-06	2.66E-07	8.39E-07	2.03E-10	0.00E+00	1.11E-06
3058	420771.24	3734639.54	2.96E-06	1.25E-05	5.48E-09	0.00E+00	1.55E-05	4.06E-07	1.71E-06	8.17E-10	0.00E+00	2.12E-06	2.49E-07	7.85E-07	1.90E-10	0.00E+00	1.03E-06
3059	420762.06	3734643.39	2.69E-06	1.14E-05	4.98E-09	0.00E+00	1.40E-05	3.69E-07	1.55E-06	7.42E-10	0.00E+00	1.92E-06	2.26E-07	7.14E-07	1.72E-10	0.00E+00	9.40E-07
3060	420752.89	3734647.23	2.37E-06	1.00E-05	4.39E-09	0.00E+00	1.24E-05	3.25E-07	1.37E-06	6.54E-10	0.00E+00	1.70E-06	2.00E-07	6.29E-07	1.52E-10	0.00E+00	8.29E-07
3061	420743.71	3734651.08	2.03E-06	8.58E-06	3.76E-09	0.00E+00	1.06E-05	2.78E-07	1.17E-06	5.61E-10	0.00E+00	1.45E-06	1.71E-07	5.39E-07	1.30E-10	0.00E+00	7.10E-07
3062	420861.41	3734564.82	2.38E-06	1.01E-05	4.42E-09	0.00E+00	1.25E-05	3.27E-07	1.38E-06	6.58E-10	0.00E+00	1.70E-06	2.01E-07	6.33E-07	1.53E-10	0.00E+00	8.33E-07
3063	420857.63	3734573.54	2.52E-06	1.07E-05	4.67E-09	0.00E+00	1.32E-05	3.46E-07	1.46E-06	6.96E-10	0.00E+00	1.80E-06	2.12E-07	6.69E-07	1.62E-10	0.00E+00	8.82E-07
3064	420853.85	3734582.25	2.63E-06	1.11E-05	4.88E-09	0.00E+00	1.38E-05	3.61E-07	1.52E-06	7.27E-10	0.00E+00	1.88E-06	2.22E-07	6.99E-07	1.69E-10	0.00E+00	9.21E-07
3065	420850.07	3734590.96	2.71E-06	1.15E-05	5.03E-09	0.00E+00	1.42E-05	3.72E-07	1.57E-06	7.49E-10	0.00E+00	1.94E-06	2.28E-07	7.20E-07	1.74E-10	0.00E+00	9.49E-07
3066	420846.29	3734599.68	2.76E-06	1.17E-05	5.11E-09	0.00E+00	1.44E-05	3.78E-07	1.59E-06	7.61E-10	0.00E+00	1.97E-06	2.32E-07	7.32E-07	1.77E-10	0.00E+00	9.65E-07
3067	420842.51	3734608.39	2.77E-06	1.17E-05	5.13E-09	0.00E+00	1.45E-05	3.79E-07	1.60E-06	7.64E-10	0.00E+00	1.98E-06	2.33E-07	7.34E-07	1.77E-10	0.00E+00	9.67E-07
3068	420838.74	3734617.11	2.73E-06	1.15E-05	5.07E-09	0.00E+00	1.43E-05	3.75E-07	1.58E-06	7.55E-10	0.00E+00	1.95E-06	2.30E-07	7.26E-07	1.75E-10	0.00E+00	9.56E-07
3069	420834.96	3734625.82	2.67E-06	1.13E-05	4.94E-09	0.00E+00	1.39E-05	3.66E-07	1.54E-06	7.36E-10	0.00E+00	1.91E-06	2.24E-07	7.08E-07	1.71E-10	0.00E+00	9.32E-07
3070	420822.42	3734638.21	2.64E-06	1.11E-05	4.89E-09	0.00E+00	1.38E-05	3.62E-07	1.52E-06	7.28E-10	0.00E+00	1.89E-06	2.22E-07	7.00E-07	1.69E-10	0.00E+00	9.22E-07
3071	420813.66	3734641.88	2.67E-06	1.13E-05	4.94E-09	0.00E+00	1.39E-05	3.65E-07	1.54E-06	7.36E-10	0.00E+00	1.91E-06	2.24E-07	7.08E-07	1.71E-10	0.00E+00	9.32E-07
3072	420804.9	3734645.55	2.65E-06	1.12E-05	4.92E-09	0.00E+00	1.39E-05	3.64E-07	1.53E-06	7.32E-10	0.00E+00	1.90E-06	2.23E-07	7.04E-07	1.70E-10	0.00E+00	9.28E-07
3073	420796.14	3734649.22	2.59E-06	1.10E-05	4.81E-09	0.00E+00	1.36E-05	3.56E-07	1.50E-06	7.16E-10	0.00E+00	1.85E-06	2.18E-07	6.89E-07	1.66E-10	0.00E+00	9.07E-07
3074	420787.38	3734652.9	2.49E-06	1.05E-05	4.61E-09	0.00E+00	1.30E-05	3.41E-07	1.44E-06	6.86E-10	0.00E+00	1.78E-06	2.09E-07	6.60E-07	1.59E-10	0.00E+00	8.69E-07
3075	420778.62	3734656.57	2.33E-06	9.86E-06	4.33E-09	0.00E+00	1.22E-05	3.20E-07	1.35E-06	6.44E-10	0.00E+00	1.67E-06	1.96E-07	6.20E-07	1.50E-10	0.00E+00	8.16E-07
3076	420769.86	3734660.24	2.14E-06	9.05E-06	3.97E-09	0.00E+00	1.12E-05	2.94E-07	1.24E-06	5.91E-10	0.00E+00	1.53E-06	1.80E-07	5.69E-07	1.37E-10	0.00E+00	7.49E-07
3077	420761.1	3734663.91	1.92E-06	8.12E-06	3.56E-09	0.00E+00	1.00E-05	2.63E-07	1.11E-06	5.30E-10	0.00E+00	1.37E-06	1.62E-07	5.10E-07	1.23E-10	0.00E+00	6.72E-07
3078	420752.34	3734667.58	1.69E-06	7.12E-06	3.13E-09	0.00E+00	8.81E-06	2.31E-07	9.74E-07	4.66E-10	0.00E+00	1.21E-06	1.42E-07	4.48E-07	1.08E-10	0.00E+00	5.90E-07
3079	420743.58	3734671.25	1.45E-06	6.13E-06	2.69E-09	0.00E+00	7.58E-06	1.99E-07	8.38E-07	4.01E-10	0.00E+00	1.04E-06	1.22E-07	3.85E-07	9.30E-11	0.00E+00	5.07E-07
3080	420880.86	3734566.6	1.85E-06	7.80E-06	3.42E-09	0.00E+00	9.65E-06	2.53E-07	1.07E-06	5.10E-10	0.00E+00	1.32E-06	1.55E-07	4.90E-07	1.18E-10	0.00E+00	6.46E-07
3081	420876.9	3734575.73	1.97E-06	8.31E-06	3.65E-09	0.00E+00	1.03E-05	2.70E-07	1.14E-06	5.43E-10	0.00E+00	1.41E-06	1.66E-07	5.22E-07	1.26E-10	0.00E+00	6.88E-07
3082	420872.94	3734584.86	2.07E-06	8.74E-06	3.84E-09	0.00E+00	1.08E-05	2.84E-07	1.20E-06	5.71E-10	0.00E+00	1.48E-06	1.74E-07	5.49E-07	1.33E-10	0.00E+00	7.24E-07
3083	420868.98	3734593.99	2.16E-06	9.10E-06	3.99E-09	0.00E+00	1.13E-05	2.95E-07	1.24E-06	5.95E-10	0.00E+00	1.54E-06	1.81E-07	5.72E-07	1.38E-10	0.00E+00	7.53E-07
3084	420865.03	3734603.12	2.21E-06	9.35E-06	4.10E-09	0.00E+00	1.16E-05	3.04E-07	1.28E-06	6.11E-10	0.00E+00	1.58E-06	1.86E-07	5.88E-07	1.42E-10	0.00E+00	7.74E-07
3085	420861.07	3734612.25	2.25E-06	9.49E-06	4.16E-09	0.00E+00	1.17E-05	3.08E-07	1.30E-06	6.20E-10	0.00E+00	1.61E-06	1.89E-07	5.96E-07	1.44E-10	0.00E+00	7.85E-07
3086	420857.11	3734621.38	2.25E-06	9.50E-06	4.17E-09	0.00E+00	1.17E-05	3.08E-07	1.30E-06	6.21E-10	0.00E+00	1.61E-06	1.89E-07	5.97E-07	1.44E-10	0.00E+00	7.86E-07
3087	420853.15	3734630.51	2.22E-06	9.39E-06	4.12E-09	0.00E+00	1.16E-05	3.05E-07	1.28E-06	6.14E-10	0.00E+00	1.59E-06	1.87E-07	5.90E-07	1.42E-10	0.00E+00	7.77E-07
3088	420849.19	3734639.64	2.17E-06	9.17E-06	4.03E-09	0.00E+00	1.14E-05	2.98E-07	1.25E-06	6.00E-10	0.00E+00	1.55E-06	1.83E-07	5.77E-07	1.39E-10	0.00E+00	7.59E-07
3089	420836.06	3734652.61	2.15E-06	9.08E-06	3.99E-09	0.00E+00	1.12E-05	2.95E-07	1.24E-06	5.94E-10	0.00E+00	1.54E-06	1.81E-07	5.71E-07	1.38E-10	0.00E+00	7.52E-07
3090	420826.88	3734656.46	2.18E-06	9.19E-06	4.03E-09	0.00E+00	1.14E-05	2.98E-07	1.26E-06	6.00E-10	0.00E+00	1.56E-06	1.83E-07	5.77E-07	1.39E-10	0.00E+00	7.61E-07
3091	420817.7	3734660.3	2.17E-06	9.15E-06	4.02E-09	0.00E+00	1.13E-05	2.97E-07	1.25E-06	5.98E-10	0.00E+00	1.55E-06	1.82E-07	5.75E-07	1.39E-10	0.00E+00	7.58E-07
3092	420808.53	3734664.15	2.13E-06	8.97E-06	3.94E-09	0.00E+00	1.11E-05	2.91E-07	1.23E-06	5.87E-10	0.00E+00	1.52E-06	1.79E-07	5.64E-07	1.36E-10	0.00E+00	7.43E-07
3093	420799.35	3734668	2.05E-06	8.66E-06	3.80E-09	0.00E+00	1.07E-05	2.81E-07	1.18E-06	5.66E-10	0.00E+00	1.47E-06	1.72E-07	5.44E-07	1.31E-10	0.00E+00	7.17E-07
3094	420790.17	3734671.84	1.94E-06	8.19E-06	3.59E-09	0.00E+00	1.01E-05	2.66E-07	1.12E-06	5.35E-10	0.00E+00	1.39E-06	1.63E-07	5.15E-07	1.24E-10	0.00E+00	6.78E-07
3095	420781	3734675.69	1.80E-06	7.60E-06	3.33E-09	0.00E+00	9.40E-06	2.47E-07	1.04E-06	4.96E-10	0.00E+00	1.29E-06	1.51E-07	4.77E-07	1.15E-10	0.00E+00	6.29E-07
3096	420771.82	3734679.54	1.63E-06	6.90E-06	3.03E-09	0.00E+00	8.54E-06	2.24E-07	9.44E-07	4.51E-10	0.00E+00	1.17E-06	1.38E-07	4.34E-07	1.05E-10	0.00E+00	5.71E-07
3097	420762.64	3734683.38	1.45E-06	6.14E-06	2.69E-09	0.00E+00	7.60E-06	1.99E-07	8.40E-07	4.01E-10	0.00E+00	1.04E-06	1.22E-07	3.86E-07	9.32E-11	0.00E+00	5.08E-07
3098	420753.47	3734687.23	1.27E-06	5.35E-06	2.35E-09	0.00E+00	6.62E-06	1.74E-07	7.32E-07	3.50E-10	0.00E+00	9.06E-07	1.07E-07	3.36E-07	8.12E-11	0.00E+00	4.43E-07
3099	420744.29	3734691.08	1.09E-06	4.59E-06	2.01E-09	0.00E+00	5.68E-06	1.49E-07	6.28E-07	3.00E-10	0.00E+00	7.77E-07	9.15E-08	2.89E-07	6.97E-11	0.00E+00	3.80E-07
3100	420893	3734529.23	1.33E-06	5.61E-06	2.46E-09	0.00E+00	6.94E-06	1.82E-07	7.67E-07	3.66E-10	0.00E+00	9.49E-07	1.12E-07	3.52E-07	8.51E-11	0.00E+00	4.64E-07
3101	420893.27	3734519.25	1.24E-06	5.22E-06	2.29E-09	0.00E+00	6.46E-06	1.69E-07	7.14E-07	3.41E-10	0.00E+00	8.83E-07	1.04E-07	3.28E-07	7.92E-11	0.00E+00	4.32E-07
3102	420893.53	3734509.26	1.14E-06	4.81E-06	2.11E-09	0.00E+00	5.95E-06	1.56E-07	6.57E-07	3.14E-10	0.00E+00	8.13E-07	9.57E-08	3.02E-07	7.29E-11	0.00E+00	3.98E-07
3103	420901.28	3734566.16	1.42E-06	5.98E-06	2.63E-09	0.00E+00	7.40E-06	1.94E-07	8.18E-07	3.91E-10	0.00E+00	1.01E-06	1.19E-07	3.76E-07	9.08E-11	0.00E+00	4.95E-07
3104	420897.46	3734574.96	1.52E-06	6.43E-06	2.82E-09	0.00E+00	7.96E-06	2.09E-07	8.79E-07	4.20E-10	0.00E+00	1.09E-06	1.28E-07	4.04E-07	9.75E-11	0.00E+00	5.32E-07
3105	420893.64	3734583.76	1.62E-06	6.84E-06	3.00E-09	0.00E+00	8.46E-06	2.22E-07	9.35E-07	4.47E-10	0.00E+00	1.16E-06	1.36E-07	4.30E-07	1.04E-10	0.00E+00	5.66E-07
3106	420889.83	3734592.57	1.70E-06	7.18E-06	3.15E-09	0.00E+00	8.88E-06	2.33E-07	9.81E-07	4.69E-10	0.00E+00	1.21E-06	1.43E-07	4.51E-07	1.09E-10	0.00E+00	5.94E-07
3107	420886.01	3734601.37	1.76E-06	7.45E-06	3.27E-09	0.00E+00	9.22E-06	2.42E-07	1.02E-06	4.87E-10	0.00E+00	1.26E-06	1.48E-07	4.68E-07	1.13E-10	0.00E+00	6.17E-07
3108	420882.19	3734610.17	1.82E-06	7.67E-06	3.36E-09	0.00E+00	9.48E-06	2.49E-07	1.05E-06	5.01E-10	0.00E+00	1.30E-06	1.53E-07	4.82E-07	1.16E-10	0.00E+00	6.35E-07
3109	420878.37	3734618.98	1.85E-06	7.80E-06	3.42E-09	0.00E+00	9.65E-06	2.53E-07	1.07E-06	5.10E-10	0.00E+00	1.32E-06	1.55E-07	4.90E-07	1.18E-10	0.00E+00	6.46E-07
3110	420874.56	3734627.78	1.86E-06	7.86E-06	3.45E-09	0.00E+00	9.73E-06	2.55E-07	1.08E-06	5.14E-10	0.00E+00	1.33E-06	1.57E-07	4.94E-07	1.19E-10	0.00E+00	6.51E-07
3111	420870.74	3734636.58	1.86E-06	7.85E-06	3.45E-09	0.00E+00	9.72E-06	2.55E-07	1.07E-06	5.13E-10	0.00E+00	1.33E-06	1.56E-07	4.94E-07	1.19E-10	0.00E+00	6.50E-07
3112	420866.92	3734645.39	1.84E-06	7.75E-06	3.40E-09	0.00E+00	9.59E-06	2.52E-07	1.06E-06	5.07E-10	0.00E+00	1.31E-06	1.54E-07	4.87E-07	1.18E-10	0.00E+00	6.42E-07
3113	420863.11	3734654.19	1.80E-06	7.58E-06	3.33E-09	0.00E+00	9.38E-06	2.46E-07	1.04E-06	4.95E-10	0.00E+00	1.28E-06	1.51E-07	4.76E-07	1.15E-10	0.00E+00	6.28E-07
3114	420850.44	3734666.7	1.78E-06	7.51E-06	3.30E-09	0.00E+00	9.29E-06	2.44E-07	1.03E-06	4.91E-10	0.00E+00	1.27E-06	1.50E-07	4.72E-07	1.14E-10	0.00E+00	6.22E-07
3115	420841.59	3734670.41	1.80E-06	7.60E-06	3.33E-09	0.00E+00	9.40E-06	2.47E-07	1.04E-06	4.97E-10	0.00E+00	1.29E-06	1.51E-07	4.77E-07	1.15E-10	0.00E+00	6.29E-07
3116	420832.74	3734674.12	1.81E-06	7.62E-06	3.34E-09	0.00E+00	9.43E-06	2.47E-07	1.04E-06	4.98E-10	0.00E+00	1.29E-06	1.52E-07	4.79E-07	1.16E-10	0.00E+00	6.31E-07
3117	420823.89	3734677.83	1.79E-06	7.55E-06	3.31E-09	0.00E+00	9.34E-06	2.45E-07	1.03E-06	4.93E-10	0.00E+00	1.28E-06	1.50E-07	4.74E-07	1.15E-10	0.00E+00	6.25E-07
3118	420815.04	3734681.54	1.75E-06	7.37E-06	3.23E-09	0.00E+00	9.12E-06	2.39E-07	1.01E-06	4.82E-10	0.00E+00	1.25E-06	1.47E-07	4.63E-07	1.12E-10	0.00E+00	6.10E-07
3119	420806.2	3734685.25	1.68E-06	7.09E-06	3.11E-09	0.00E+00	8.77E-06	2.30E-07	9.70E-07	4.63E-10	0.00E+00	1.20E-06	1.41E-07	4.46E-07	1.08E-10	0.00E+00	5.87E-07
3120	420797.35	3734688.96	1.59E-06	6.72E-06	2.95E-09	0.00E+00	8.32E-06	2.18E-07	9.19E-07	4.39E-10	0.00E+00	1.14E-06	1.34E-07	4.23E-07	1.02E-10	0.00E+00	5.57E-07
3121	420788.5	3734692.67	1.49E-06	6.27E-06	2.75E-09	0.00E+00	7.76E-06	2.04E-07	8.58E-07	4.10E-10	0.00E+00	1.06E-06	1.25E-07	3.94E-07	9.52E-11	0.00E+00	5.19E-07
3122	420779.65	3734696.38	1.36E-06	5.76E-06	2.53E-09	0.00E+00	7.12E-06	1.87E-07	7.87E-07	3.76E-10	0.00E+00	9.74E-07	1.15E-07	3.62E-07	8.73E-11	0.00E+00	4.77E-07
3123	420770.8	3734700.08	1.23E-06	5.18E-06	2.27E-09	0.00E+00	6.41E-06	1.68E-07	7.09E-07	3.39E-10	0.00E+00	8.77E-07	1.03E-07	3.26E-07	7.86E-11	0.00E+00	4.29E-07
3124	420761.95	3734703.79	1.09E-06	4.60E-06	2.02E-09	0.00E+00	5.69E-06	1.49E-07	6.29E-07	3.01E-10	0.00E+00	7.78E-07	9.16E-08	2.89E-07	6.98E-11	0.00E+00	3.81E-07

3125	420753.1	3734707.5	9.53E-07	4.02E-06	1.77E-09	0.00E+00	4.98E-06	1.31E-07	5.50E-07	2.63E-10	0.00E+00	6.81E-07	8.02E-08	2.53E-07	6.11E-11	0.00E+00	3.33E-07
3126	420744.25	3734711.21	8.27E-07	3.49E-06	1.53E-09	0.00E+00	4.32E-06	1.13E-07	4.77E-07	2.28E-10	0.00E+00	5.91E-07	6.95E-08	2.19E-07	5.30E-11	0.00E+00	2.89E-07
3127	420912.99	3734529.76	1.03E-06	4.36E-06	1.91E-09	0.00E+00	5.39E-06	1.41E-07	5.96E-07	2.85E-10	0.00E+00	7.38E-07	8.68E-08	2.74E-07	6.61E-11	0.00E+00	3.61E-07
3128	420913.26	3734519.78	9.62E-07	4.06E-06	1.78E-09	0.00E+00	5.02E-06	1.32E-07	5.55E-07	2.65E-10	0.00E+00	6.87E-07	8.09E-08	2.55E-07	6.16E-11	0.00E+00	3.36E-07
3129	420913.53	3734509.8	8.91E-07	3.76E-06	1.65E-09	0.00E+00	4.66E-06	1.22E-07	5.15E-07	2.46E-10	0.00E+00	6.37E-07	7.50E-08	2.37E-07	5.71E-11	0.00E+00	3.12E-07
3130	420920.84	3734567.67	1.13E-06	4.76E-06	2.09E-09	0.00E+00	5.89E-06	1.55E-07	6.51E-07	3.11E-10	0.00E+00	8.06E-07	9.49E-08	2.99E-07	7.23E-11	0.00E+00	3.94E-07
3131	420916.89	3734576.8	1.21E-06	5.12E-06	2.24E-09	0.00E+00	6.33E-06	1.66E-07	6.99E-07	3.34E-10	0.00E+00	8.66E-07	1.02E-07	3.21E-07	7.76E-11	0.00E+00	4.23E-07
3132	420912.93	3734585.93	1.29E-06	5.47E-06	2.40E-09	0.00E+00	6.76E-06	1.77E-07	7.47E-07	3.57E-10	0.00E+00	9.25E-07	1.09E-07	3.44E-07	8.29E-11	0.00E+00	4.52E-07
3133	420908.97	3734595.06	1.37E-06	5.79E-06	2.54E-09	0.00E+00	7.17E-06	1.88E-07	7.92E-07	3.79E-10	0.00E+00	9.81E-07	1.15E-07	3.64E-07	8.79E-11	0.00E+00	4.80E-07
3134	420905.01	3734604.19	1.44E-06	6.08E-06	2.67E-09	0.00E+00	7.53E-06	1.97E-07	8.32E-07	3.98E-10	0.00E+00	1.03E-06	1.21E-07	3.82E-07	9.23E-11	0.00E+00	5.04E-07
3135	420901.05	3734613.32	1.49E-06	6.29E-06	2.76E-09	0.00E+00	7.78E-06	2.04E-07	8.60E-07	4.11E-10	0.00E+00	1.06E-06	1.25E-07	3.95E-07	9.54E-11	0.00E+00	5.21E-07
3136	420897.1	3734622.44	1.53E-06	6.45E-06	2.83E-09	0.00E+00	7.98E-06	2.09E-07	8.82E-07	4.21E-10	0.00E+00	1.09E-06	1.28E-07	4.05E-07	9.78E-11	0.00E+00	5.34E-07
3137	420893.14	3734631.57	1.55E-06	6.55E-06	2.87E-09	0.00E+00	8.11E-06	2.13E-07	8.96E-07	4.28E-10	0.00E+00	1.11E-06	1.31E-07	4.12E-07	9.94E-11	0.00E+00	5.42E-07
3138	420889.18	3734640.7	1.56E-06	6.60E-06	2.89E-09	0.00E+00	8.16E-06	2.14E-07	9.02E-07	4.31E-10	0.00E+00	1.12E-06	1.31E-07	4.15E-07	1.00E-10	0.00E+00	5.46E-07
3139	420885.22	3734649.83	1.56E-06	6.58E-06	2.89E-09	0.00E+00	8.14E-06	2.14E-07	8.99E-07	4.30E-10	0.00E+00	1.11E-06	1.31E-07	4.13E-07	9.98E-11	0.00E+00	5.44E-07
3140	420881.26	3734658.96	1.54E-06	6.50E-06	2.85E-09	0.00E+00	8.04E-06	2.11E-07	8.89E-07	4.25E-10	0.00E+00	1.10E-06	1.30E-07	4.09E-07	9.86E-11	0.00E+00	5.38E-07
3141	420877.3	3734668.09	1.51E-06	6.37E-06	2.80E-09	0.00E+00	7.88E-06	2.07E-07	8.71E-07	4.16E-10	0.00E+00	1.08E-06	1.27E-07	4.00E-07	9.67E-11	0.00E+00	5.27E-07
3142	420864.17	3734681.07	1.50E-06	6.34E-06	2.78E-09	0.00E+00	7.84E-06	2.06E-07	8.67E-07	4.14E-10	0.00E+00	1.07E-06	1.26E-07	3.98E-07	9.62E-11	0.00E+00	5.25E-07
3143	420854.99	3734684.91	1.52E-06	6.43E-06	2.82E-09	0.00E+00	7.95E-06	2.09E-07	8.79E-07	4.20E-10	0.00E+00	1.09E-06	1.28E-07	4.04E-07	9.75E-11	0.00E+00	5.32E-07
3144	420845.82	3734688.76	1.53E-06	6.45E-06	2.83E-09	0.00E+00	7.98E-06	2.09E-07	8.82E-07	4.21E-10	0.00E+00	1.09E-06	1.29E-07	4.05E-07	9.78E-11	0.00E+00	5.34E-07
3145	420836.64	3734692.61	1.52E-06	6.40E-06	2.81E-09	0.00E+00	7.92E-06	2.08E-07	8.75E-07	4.18E-10	0.00E+00	1.08E-06	1.27E-07	4.02E-07	9.71E-11	0.00E+00	5.30E-07
3146	420827.46	3734696.45	1.49E-06	6.27E-06	2.75E-09	0.00E+00	7.76E-06	2.04E-07	8.58E-07	4.10E-10	0.00E+00	1.06E-06	1.25E-07	3.94E-07	9.52E-11	0.00E+00	5.19E-07
3147	420818.28	3734700.3	1.44E-06	6.06E-06	2.66E-09	0.00E+00	7.50E-06	1.97E-07	8.29E-07	3.96E-10	0.00E+00	1.03E-06	1.21E-07	3.81E-07	9.20E-11	0.00E+00	5.02E-07
3148	420809.11	3734704.15	1.37E-06	5.78E-06	2.54E-09	0.00E+00	7.15E-06	1.88E-07	7.90E-07	3.78E-10	0.00E+00	9.79E-07	1.15E-07	3.63E-07	8.77E-11	0.00E+00	4.79E-07
3149	420799.93	3734707.99	1.29E-06	5.44E-06	2.39E-09	0.00E+00	6.73E-06	1.76E-07	7.43E-07	3.55E-10	0.00E+00	9.20E-07	1.08E-07	3.42E-07	8.25E-11	0.00E+00	4.50E-07
3150	420790.75	3734711.84	1.19E-06	5.03E-06	2.21E-09	0.00E+00	6.22E-06	1.63E-07	6.88E-07	3.29E-10	0.00E+00	8.51E-07	1.00E-07	3.16E-07	7.63E-11	0.00E+00	4.16E-07
3151	420781.58	3734715.69	1.09E-06	4.58E-06	2.01E-09	0.00E+00	5.67E-06	1.49E-07	6.27E-07	2.99E-10	0.00E+00	7.76E-07	9.13E-08	2.88E-07	6.95E-11	0.00E+00	3.79E-07
3152	420772.4	3734719.53	9.74E-07	4.11E-06	1.81E-09	0.00E+00	5.09E-06	1.34E-07	5.63E-07	2.69E-10	0.00E+00	6.96E-07	8.20E-08	2.59E-07	6.24E-11	0.00E+00	3.41E-07
3153	420763.22	3734723.38	8.64E-07	3.65E-06	1.60E-09	0.00E+00	4.52E-06	1.18E-07	4.99E-07	2.38E-10	0.00E+00	6.18E-07	7.27E-08	2.29E-07	5.54E-11	0.00E+00	3.02E-07
3154	420754.05	3734727.23	7.55E-07	3.19E-06	1.40E-09	0.00E+00	3.94E-06	1.03E-07	4.36E-07	2.08E-10	0.00E+00	5.39E-07	6.35E-08	2.00E-07	4.83E-11	0.00E+00	2.64E-07
3155	420744.87	3734731.07	6.50E-07	2.75E-06	1.20E-09	0.00E+00	3.40E-06	8.91E-08	3.75E-07	1.79E-10	0.00E+00	4.65E-07	5.47E-08	1.73E-07	4.16E-11	0.00E+00	2.27E-07
3156	420932.99	3734530.3	8.22E-07	3.47E-06	1.52E-09	0.00E+00	4.30E-06	1.13E-07	4.75E-07	2.27E-10	0.00E+00	5.88E-07	6.92E-08	2.18E-07	5.27E-11	0.00E+00	2.87E-07
3157	420933.25	3734520.31	7.67E-07	3.24E-06	1.42E-09	0.00E+00	4.01E-06	1.05E-07	4.43E-07	2.12E-10	0.00E+00	5.48E-07	6.45E-08	2.04E-07	4.91E-11	0.00E+00	2.68E-07
3158	420933.52	3734510.33	7.10E-07	3.00E-06	1.32E-09	0.00E+00	3.71E-06	9.73E-08	4.10E-07	1.96E-10	0.00E+00	5.07E-07	5.97E-08	1.88E-07	4.55E-11	0.00E+00	2.48E-07
3159	420941.19	3734567.4	8.98E-07	3.79E-06	1.66E-09	0.00E+00	4.69E-06	1.23E-07	5.19E-07	2.48E-10	0.00E+00	6.42E-07	7.56E-08	2.38E-07	5.75E-11	0.00E+00	3.14E-07
3160	420937.34	3734576.26	9.62E-07	4.06E-06	1.78E-09	0.00E+00	5.03E-06	1.32E-07	5.55E-07	2.65E-10	0.00E+00	6.88E-07	8.09E-08	2.55E-07	6.16E-11	0.00E+00	3.36E-07
3161	420933.5	3734585.12	1.03E-06	4.33E-06	1.90E-09	0.00E+00	5.36E-06	1.41E-07	5.93E-07	2.83E-10	0.00E+00	7.34E-07	8.63E-08	2.72E-07	6.57E-11	0.00E+00	3.59E-07
3162	420929.66	3734593.98	1.09E-06	4.60E-06	2.02E-09	0.00E+00	5.69E-06	1.49E-07	6.29E-07	3.01E-10	0.00E+00	7.79E-07	9.17E-08	2.89E-07	6.98E-11	0.00E+00	3.81E-07
3163	420925.82	3734602.84	1.15E-06	4.86E-06	2.13E-09	0.00E+00	6.01E-06	1.58E-07	6.64E-07	3.17E-10	0.00E+00	8.22E-07	9.68E-08	3.05E-07	7.37E-11	0.00E+00	4.02E-07
3164	420921.98	3734611.7	1.20E-06	5.08E-06	2.23E-09	0.00E+00	6.29E-06	1.65E-07	6.95E-07	3.32E-10	0.00E+00	8.61E-07	1.01E-07	3.20E-07	7.71E-11	0.00E+00	4.21E-07
3165	420918.14	3734620.56	1.25E-06	5.27E-06	2.31E-09	0.00E+00	6.53E-06	1.71E-07	7.21E-07	3.45E-10	0.00E+00	8.93E-07	1.05E-07	3.31E-07	8.00E-11	0.00E+00	4.37E-07
3166	420914.29	3734629.42	1.29E-06	5.43E-06	2.38E-09	0.00E+00	6.72E-06	1.76E-07	7.42E-07	3.55E-10	0.00E+00	9.19E-07	1.08E-07	3.41E-07	8.23E-11	0.00E+00	4.49E-07
3167	420910.45	3734638.28	1.31E-06	5.53E-06	2.43E-09	0.00E+00	6.84E-06	1.80E-07	7.56E-07	3.61E-10	0.00E+00	9.36E-07	1.10E-07	3.48E-07	8.39E-11	0.00E+00	4.58E-07
3168	420906.61	3734647.14	1.32E-06	5.59E-06	2.45E-09	0.00E+00	6.91E-06	1.81E-07	7.64E-07	3.65E-10	0.00E+00	9.46E-07	1.11E-07	3.51E-07	8.48E-11	0.00E+00	4.63E-07
3169	420902.77	3734656.01	1.33E-06	5.60E-06	2.46E-09	0.00E+00	6.93E-06	1.82E-07	7.66E-07	3.66E-10	0.00E+00	9.49E-07	1.12E-07	3.52E-07	8.50E-11	0.00E+00	4.64E-07
3170	420898.93	3734664.87	1.32E-06	5.58E-06	2.45E-09	0.00E+00	6.91E-06	1.81E-07	7.63E-07	3.65E-10	0.00E+00	9.45E-07	1.11E-07	3.51E-07	8.47E-11	0.00E+00	4.62E-07
3171	420895.09	3734673.73	1.31E-06	5.52E-06	2.42E-09	0.00E+00	6.83E-06	1.79E-07	7.55E-07	3.61E-10	0.00E+00	9.35E-07	1.10E-07	3.47E-07	8.38E-11	0.00E+00	4.57E-07
3172	420891.24	3734682.59	1.28E-06	5.42E-06	2.38E-09	0.00E+00	6.71E-06	1.76E-07	7.41E-07	3.54E-10	0.00E+00	9.18E-07	1.08E-07	3.41E-07	8.22E-11	0.00E+00	4.49E-07
3173	420878.5	3734695.18	1.28E-06	5.41E-06	2.37E-09	0.00E+00	6.69E-06	1.76E-07	7.40E-07	3.53E-10	0.00E+00	9.16E-07	1.08E-07	3.40E-07	8.21E-11	0.00E+00	4.48E-07
3174	420869.59	3734698.92	1.30E-06	5.50E-06	2.41E-09	0.00E+00	6.80E-06	1.78E-07	7.52E-07	3.59E-10	0.00E+00	9.30E-07	1.10E-07	3.45E-07	8.34E-11	0.00E+00	4.55E-07
3175	420860.68	3734702.65	1.31E-06	5.53E-06	2.43E-09	0.00E+00	6.84E-06	1.80E-07	7.56E-07	3.61E-10	0.00E+00	9.36E-07	1.10E-07	3.48E-07	8.39E-11	0.00E+00	4.58E-07
3176	420851.77	3734706.38	1.31E-06	5.52E-06	2.42E-09	0.00E+00	6.82E-06	1.79E-07	7.54E-07	3.61E-10	0.00E+00	9.34E-07	1.10E-07	3.47E-07	8.37E-11	0.00E+00	4.57E-07
3177	420842.87	3734710.12	1.29E-06	5.45E-06	2.39E-09	0.00E+00	6.74E-06	1.77E-07	7.45E-07	3.56E-10	0.00E+00	9.22E-07	1.09E-07	3.42E-07	8.26E-11	0.00E+00	4.51E-07
3178	420833.96	3734713.85	1.26E-06	5.32E-06	2.34E-09	0.00E+00	6.59E-06	1.73E-07	7.28E-07	3.48E-10	0.00E+00	9.01E-07	1.06E-07	3.35E-07	8.08E-11	0.00E+00	4.41E-07
3179	420825.05	3734717.58	1.22E-06	5.14E-06	2.26E-09	0.00E+00	6.36E-06	1.67E-07	7.03E-07	3.36E-10	0.00E+00	8.71E-07	1.02E-07	3.23E-07	7.80E-11	0.00E+00	4.26E-07
3180	420816.15	3734721.32	1.16E-06	4.91E-06	2.15E-09	0.00E+00	6.07E-06	1.59E-07	6.71E-07	3.21E-10	0.00E+00	8.31E-07	9.78E-08	3.09E-07	7.45E-11	0.00E+00	4.06E-07
3181	420807.24	3734725.05	1.10E-06	4.63E-06	2.03E-09	0.00E+00	5.73E-06	1.50E-07	6.33E-07	3.02E-10	0.00E+00	7.83E-07	9.22E-08	2.91E-07	7.02E-11	0.00E+00	3.83E-07
3182	420798.33	3734728.78	1.02E-06	4.31E-06	1.89E-09	0.00E+00	5.33E-06	1.40E-07	5.89E-07	2.81E-10	0.00E+00	7.29E-07	8.58E-08	2.71E-07	6.53E-11	0.00E+00	3.56E-07
3183	420789.42	3734732.52	9.37E-07	3.95E-06	1.74E-09	0.00E+00	4.89E-06	1.28E-07	5.41E-07	2.58E-10	0.00E+00	6.69E-07	7.88E-08	2.49E-07	6.00E-11	0.00E+00	3.27E-07
3184	420771.61	3734739.98	7.65E-07	3.23E-06	1.42E-09	0.00E+00	3.99E-06	1.05E-07	4.42E-07	2.11E-10	0.00E+00	5.47E-07	6.43E-08	2.03E-07	4.90E-11	0.00E+00	2.67E-07
3185	420762.7	3734743.72	6.77E-07	2.86E-06	1.26E-09	0.00E+00	3.54E-06	9.29E-08	3.91E-07	1.87E-10	0.00E+00	4.84E-07	5.70E-08	1.80E-07	4.34E-11	0.00E+00	2.37E-07
3186	420753.8	3734747.45	5.94E-07	2.51E-06	1.10E-09	0.00E+00	3.10E-06	8.14E-08	3.43E-07	1.64E-10	0.00E+00	4.25E-07	5.00E-08	1.58E-07	3.80E-11	0.00E+00	2.08E-07
3187	420744.89	3734751.18	5.16E-07	2.18E-06	9.56E-10	0.00E+00	2.70E-06	7.07E-08	2.98E-07	1.42E-10	0.00E+00	3.69E-07	4.34E-08	1.37E-07	3.31E-11	0.00E+00	1.80E-07
3188	420952.98	3734530.83	6.64E-07	2.80E-06	1.23E-09	0.00E+00	3.47E-06	9.11E-08	3.84E-07	1.83E-10	0.00E+00	4.75E-07	5.59E-08	1.76E-07	4.26E-11	0.00E+00	2.32E-07
3189	420953.24	3734520.85	6.22E-07	2.63E-06	1.15E-09	0.00E+00	3.25E-06	8.53E-08	3.59E-07	1.72E-10	0.00E+00	4.45E-07	5.24E-08	1.65E-07	3.99E-11	0.00E+00	2.18E-07
3190	420953.51	3734510.86	5.77E-07	2.44E-06	1.07E-09	0.00E+00	3.02E-06	7.92E-08	3.33E-07	1.59E-10	0.00E+00	4.13E-07	4.86E-08	1.53E-07	3.70E-11	0.00E+00	2.02E-07
3191	420960.83	3734568.74	7.36E-07	3.11E-06	1.36E-09	0.00E+00	3.84E-06	1.01E-07	4.25E-07	2.03E-10	0.00E+00	5.26E-07	6.19E-08	1.95E-07	4.71E-11	0.00E+00	2.57E-07
3192	420956.87	3734577.87	7.89E-07	3.33E-06	1.46E-09	0.00E+00	4.12E-06	1.08E-07	4.56E-07	2.18E-10	0.00E+00	5.64E-07	6.64E-08	2.09E-07	5.06E-11	0.00E+00	2.76E-07
3193	420952.91	3734587	8.45E-07	3.57E-06	1.57E-09	0.00E+00	4.42E-06	1.16E-07	4.88E-07	2.33E-10	0.00E+00	6.04E-07	7.11E-08	2.24E-07	5.41E-11	0.00E+00	2.95E-07
3194	420948.96	3734596.12	9.00E-07	3.80E-06	1.67E-09	0.00E+00	4.70E-06	1.23E-07	5.20E-07	2.48E-10	0.00E+00	6.43E-07	7.57E-08	2.39E-07	5.76E-11	0.00E+00	3.15E-07
3195	420945	3734605.25	9.51E-07	4.02E-06	1.76E-09	0.00E+00	4.97E-06	1.30E-07	5.49E-07	2.63E-10	0.00E+00	6.80E-07	8.00E-08	2.52E-07	6.09E-11	0.00E+00	3.33E-07
3196	420941.04	3734614.38	9.99E-07	4.22E-06	1.85E-09	0.00E+00	5.22E-06	1.37E-07	5.77E-07	2.76E-10	0.00E+00	7.14E-07	8.41E-08	2.65E-07	6.40E-11	0.00E+00	3.49E-07
3197	420937.08	3734623.51	1.04E-06	4.40E-06	1.93E-09	0.00E+00	5.44E-06	1.43E-07	6.02E-07	2.87E-10	0.00E+00	7.45E-07	8.76E-08	2.76E-07	6.67E-11	0.00E+00	3.64E-07
3198	420933.12	3734632.64	1.08E-06	4.55E-06	2.00E-09	0.00E+00	5.63E-06	1.48E-07	6.22E-07	2.97E-10	0.00E+00	7.70E-07	9.07E-08	2.86E-07	6.90E-11	0.00E+00	3.77E-07
3199	420929.16	3734641.77	1.11E-06	4.67E-06	2.05E-09	0.00E+00	5.78E-06	1.52E-07	6.39E-07	3.05E-10	0.00E+00	7.91E-07	9.31E-08	2.94E-07	7.09E-11	0.00E+00	3.87E-07
3200	420925.21	3734650.9	1.13E-06	4.76E-06	2.09E-09	0.00E+00	5.89E-06	1.55E-07	6.51E-07	3.11E-10	0.00E+00	8.06E-07	9.49E-08	2.99E-07	7.22E-11	0.00E+00	3.94E-07
3201	420921.25	3734660.03	1.14E-06	4.81E-06	2.11E-09	0.00E+00	5.95E-06	1.56E-07	6.57E-07	3.14E-10	0.00E+00	8.14E-07	9.58E-08	3.02E-07	7.29E-11	0.00E+00	3.98E-07
3202	420917.29	3734669.16	1.14E-06	4.82E-06	2.11E-09	0.00E+00	5.96E-06	1.56E-07	6.59E-07	3.15E-10	0.00E+00	8.16E-07	9.60E-08	3.03E-07	7.31E-11	0.00E+00	3.99E-07
3203	420913.33	3734678.29	1.14E-06	4.80E-06	2.11E-09	0.00E+00	5.94E-06	1.56E-07	6.56E-07	3.14E-10	0.00E+00	8.12E-07	9.56E-08	3.02E-07	7.28E-11	0.00E+00	3.97E-07
3204	420909.37	3734687.42	1.12E-06	4.75E-06	2.08E-09	0.00E+00	5.88E-06	1.54E-07	6.49E-07	3.10E-10	0.00E+00	8.04E-07	9.46E-08	2.98E-07	7.20E-11	0.00E+00	3.93E-07
3205	420905.42	3734696.55	1.10E-06	4.66E-06	2.05E-09	0.00E+00	5.77E-06	1.51E-07	6.38E-07	3.05E-10	0.00E+00	7.89E-07	9.29E-08	2.93E-07	7.07E-11	0.00E+00	3.86E-07
3206	420892.28	3734709.52	1.10E-06	4.65E-06	2.04E-09	0.00E+00	5.76E-06	1.51E-07	6.36E-07	3.04E-10	0.00E+00	7.88E-07	9.27E-08	2.92E-07	7.06E-11	0.00E+00	3.85E-07
3207	420883.1	3734713.37	1.12E-06	4.74E-06	2.08E-09	0.00E+00	5.86E-06	1.54E-07	6.48E-07	3.10E-10	0.00E+00	8.02E-07	9.44E-08	2.98E-07	7.19E-11	0.00E+00	3.92E-07
3208	420873.93	3734717.22	1.13E-06	4.78E-06	2.10E-09	0.00E+00	5.92E-06	1.55E-07	6.54E-07	3.13E-10	0.00E+00	8.10E-07	9.53E-08	3.01E-07	7.26E-11	0.00E+00	3.96E-07
3209	420864.75	3734721.06	1.13E-06	4.79E-06	2.10E-09	0.00E+00	5.92E-06	1.55E-07	6.54E-07	3.13E-10	0.00E+00	8.10E-07	9.53E-08	3.01E-07	7.26E-11	0.00E+00	3.96E-07
3210	420855.57	3734724.91	1.12E-06	4.74E-06	2.08E-09	0.00E+00	5.87E-06	1.54E-07	6.48E-07	3.10E-10	0.00E+00	8.02E-07	9.44E-08	2.98E-07	7.19E-11	0.00E+00	3.92E-07
3211	420846.4	3734728.76	1.10E-06	4.65E-06	2.04E-09	0.00E+00	5.75E-06	1.51E-07	6.36E-07	3.04E-10	0.00E+00	7.87E-07	9.26E-08	2.92E-07	7.05E-11	0.00E+00	3.85E-07
3212	420837.22	3734732.6	1.07E-06	4.51E-06	1.98E-09	0.00E+00	5.58E-06	1.47E-07	6.17E-07	2.95E-10	0.00E+00	7.64E-07	8.99E-08	2.84E-07	6.85E-11	0.00E+00	3.74E-07
3213	420791.33	3734751.84	7.72E-07	3.26E-06	1.43E-09	0.00E+00	4.03E-06	1.06E-07	4.45E-07	2.13E-10	0.00E+00	5.51E-07	6.49E-08	2.05E-07	4.94E-11	0.00E+00	2.70E-07
3214	420782.16	3734755.68	6.97E-07	2.94E-06	1.29E-09	0.00E+00	3.64E-06	9.56E-08	4.03E-07	1.92E-10	0.00E+00	4.98E-07	5.87E-08	1.85E-07	4.47E-11	0.00E+00	2.44E-07
3215	420772.98	3734759.53	6.23E-07	2.63E-06	1.15E-09	0.00E+00	3.26E-06	8.54E-08	3.60E-07	1.72E-10	0.00E+00	4.45E-07	5.24E-08	1.65E-07	3.99E-11	0.00E+00	2.18E-07
3216	420763.8	3734763.38	5.51E-07	2.33E-06	1.02E-09	0.00E+00	2.88E-06	7.56E-08	3.18E-07	1.52E-10	0.00E+00	3.94E-07	4.64E-08	1.46E-07	3.53E-11	0.00E+00	1.93E-07

3217	420754.63	3734767.22	4.83E-07	2.04E-06	8.95E-10	0.00E+00	2.52E-06	6.62E-08	2.79E-07	1.33E-10	0.00E+00	3.45E-07	4.07E-08	1.28E-07	3.10E-11	0.00E+00	1.69E-07
3218	420745.45	3734771.07	4.20E-07	1.77E-06	7.78E-10	0.00E+00	2.19E-06	5.76E-08	2.43E-07	1.16E-10	0.00E+00	3.00E-07	3.53E-08	1.11E-07	2.69E-11	0.00E+00	1.47E-07
3219	420972.97	3734531.37	5.47E-07	2.31E-06	1.01E-09	0.00E+00	2.86E-06	7.50E-08	3.16E-07	1.51E-10	0.00E+00	3.91E-07	4.60E-08	1.45E-07	3.51E-11	0.00E+00	1.91E-07
3220	420973.24	3734521.38	5.13E-07	2.17E-06	9.50E-10	0.00E+00	2.68E-06	7.03E-08	2.96E-07	1.42E-10	0.00E+00	3.67E-07	4.31E-08	1.36E-07	3.29E-11	0.00E+00	1.79E-07
3221	420973.5	3734511.4	4.77E-07	2.01E-06	8.84E-10	0.00E+00	2.49E-06	6.54E-08	2.75E-07	1.32E-10	0.00E+00	3.41E-07	4.01E-08	1.27E-07	3.06E-11	0.00E+00	1.67E-07
3222	420981.12	3734568.59	6.09E-07	2.57E-06	1.13E-09	0.00E+00	3.18E-06	8.34E-08	3.51E-07	1.68E-10	0.00E+00	4.35E-07	5.12E-08	1.62E-07	3.90E-11	0.00E+00	2.13E-07
3223	420977.26	3734577.49	6.50E-07	2.74E-06	1.20E-09	0.00E+00	3.39E-06	8.91E-08	3.75E-07	1.79E-10	0.00E+00	4.64E-07	5.47E-08	1.72E-07	4.16E-11	0.00E+00	2.27E-07
3224	420973.4	3734586.39	6.94E-07	2.93E-06	1.29E-09	0.00E+00	3.63E-06	9.52E-08	4.01E-07	1.92E-10	0.00E+00	4.96E-07	5.84E-08	1.84E-07	4.45E-11	0.00E+00	2.43E-07
3225	420969.54	3734595.29	7.39E-07	3.12E-06	1.37E-09	0.00E+00	3.86E-06	1.01E-07	4.27E-07	2.04E-10	0.00E+00	5.28E-07	6.22E-08	1.96E-07	4.73E-11	0.00E+00	2.58E-07
3226	420965.68	3734604.19	7.82E-07	3.30E-06	1.45E-09	0.00E+00	4.08E-06	1.07E-07	4.51E-07	2.16E-10	0.00E+00	5.59E-07	6.58E-08	2.07E-07	5.01E-11	0.00E+00	2.73E-07
3227	420961.82	3734613.09	8.23E-07	3.47E-06	1.52E-09	0.00E+00	4.30E-06	1.13E-07	4.75E-07	2.27E-10	0.00E+00	5.88E-07	6.92E-08	2.18E-07	5.27E-11	0.00E+00	2.88E-07
3228	420957.96	3734621.99	8.62E-07	3.64E-06	1.60E-09	0.00E+00	4.51E-06	1.18E-07	4.98E-07	2.38E-10	0.00E+00	6.16E-07	7.26E-08	2.29E-07	5.52E-11	0.00E+00	3.01E-07
3229	420954.11	3734630.89	8.98E-07	3.79E-06	1.66E-09	0.00E+00	4.69E-06	1.23E-07	5.19E-07	2.48E-10	0.00E+00	6.42E-07	7.56E-08	2.38E-07	5.75E-11	0.00E+00	3.14E-07
3230	420950.25	3734639.79	9.30E-07	3.93E-06	1.72E-09	0.00E+00	4.86E-06	1.27E-07	5.37E-07	2.57E-10	0.00E+00	6.64E-07	7.82E-08	2.47E-07	5.96E-11	0.00E+00	3.25E-07
3231	420946.39	3734648.7	9.54E-07	4.03E-06	1.77E-09	0.00E+00	4.98E-06	1.31E-07	5.51E-07	2.63E-10	0.00E+00	6.82E-07	8.03E-08	2.53E-07	6.11E-11	0.00E+00	3.34E-07
3232	420942.53	3734657.6	9.73E-07	4.11E-06	1.80E-09	0.00E+00	5.08E-06	1.33E-07	5.62E-07	2.68E-10	0.00E+00	6.95E-07	8.18E-08	2.58E-07	6.23E-11	0.00E+00	3.40E-07
3233	420938.67	3734666.5	9.84E-07	4.15E-06	1.82E-09	0.00E+00	5.14E-06	1.35E-07	5.68E-07	2.71E-10	0.00E+00	7.03E-07	8.28E-08	2.61E-07	6.30E-11	0.00E+00	3.44E-07
3234	420934.81	3734675.4	9.90E-07	4.18E-06	1.83E-09	0.00E+00	5.17E-06	1.36E-07	5.71E-07	2.73E-10	0.00E+00	7.07E-07	8.33E-08	2.63E-07	6.34E-11	0.00E+00	3.46E-07
3235	420930.95	3734684.3	9.90E-07	4.18E-06	1.83E-09	0.00E+00	5.17E-06	1.36E-07	5.72E-07	2.73E-10	0.00E+00	7.08E-07	8.33E-08	2.63E-07	6.34E-11	0.00E+00	3.46E-07
3236	420927.09	3734693.2	9.85E-07	4.16E-06	1.83E-09	0.00E+00	5.15E-06	1.35E-07	5.69E-07	2.72E-10	0.00E+00	7.04E-07	8.29E-08	2.61E-07	6.31E-11	0.00E+00	3.44E-07
3237	420923.23	3734702.1	9.75E-07	4.12E-06	1.81E-09	0.00E+00	5.09E-06	1.34E-07	5.63E-07	2.69E-10	0.00E+00	6.97E-07	8.20E-08	2.59E-07	6.25E-11	0.00E+00	3.41E-07
3238	420919.37	3734711	9.57E-07	4.04E-06	1.77E-09	0.00E+00	5.00E-06	1.31E-07	5.53E-07	2.64E-10	0.00E+00	6.84E-07	8.05E-08	2.54E-07	6.13E-11	0.00E+00	3.35E-07
3239	420906.57	3734723.66	9.55E-07	4.03E-06	1.77E-09	0.00E+00	4.99E-06	1.31E-07	5.51E-07	2.63E-10	0.00E+00	6.82E-07	8.03E-08	2.53E-07	6.11E-11	0.00E+00	3.34E-07
3240	420897.62	3734727.41	9.71E-07	4.10E-06	1.80E-09	0.00E+00	5.07E-06	1.33E-07	5.60E-07	2.68E-10	0.00E+00	6.94E-07	8.17E-08	2.58E-07	6.22E-11	0.00E+00	3.39E-07
3241	420888.67	3734731.16	9.83E-07	4.15E-06	1.82E-09	0.00E+00	5.13E-06	1.35E-07	5.67E-07	2.71E-10	0.00E+00	7.02E-07	8.27E-08	2.61E-07	6.29E-11	0.00E+00	3.44E-07
3242	420834.99	3734753.66	8.87E-07	3.75E-06	1.64E-09	0.00E+00	4.63E-06	1.22E-07	5.12E-07	2.45E-10	0.00E+00	6.34E-07	7.46E-08	2.35E-07	5.68E-11	0.00E+00	3.10E-07
3243	420826.04	3734757.41	8.43E-07	3.56E-06	1.56E-09	0.00E+00	4.40E-06	1.16E-07	4.87E-07	2.33E-10	0.00E+00	6.02E-07	7.09E-08	2.24E-07	5.40E-11	0.00E+00	2.95E-07
3244	420817.09	3734761.16	7.93E-07	3.35E-06	1.47E-09	0.00E+00	4.14E-06	1.09E-07	4.58E-07	2.19E-10	0.00E+00	5.67E-07	6.67E-08	2.10E-07	5.08E-11	0.00E+00	2.77E-07
3245	420808.14	3734764.91	7.38E-07	3.12E-06	1.37E-09	0.00E+00	3.85E-06	1.01E-07	4.26E-07	2.04E-10	0.00E+00	5.27E-07	6.21E-08	1.96E-07	4.73E-11	0.00E+00	2.58E-07
3246	420799.2	3734768.66	6.79E-07	2.87E-06	1.26E-09	0.00E+00	3.55E-06	9.30E-08	3.92E-07	1.87E-10	0.00E+00	4.85E-07	5.71E-08	1.80E-07	4.35E-11	0.00E+00	2.37E-07
3247	420790.25	3734772.41	6.20E-07	2.62E-06	1.15E-09	0.00E+00	3.24E-06	8.50E-08	3.58E-07	1.71E-10	0.00E+00	4.43E-07	5.22E-08	1.65E-07	3.97E-11	0.00E+00	2.17E-07
3248	420781.3	3734776.16	5.60E-07	2.37E-06	1.04E-09	0.00E+00	2.93E-06	7.68E-08	3.24E-07	1.55E-10	0.00E+00	4.00E-07	4.71E-08	1.49E-07	3.59E-11	0.00E+00	1.96E-07
3249	420772.35	3734779.91	5.02E-07	2.12E-06	9.30E-10	0.00E+00	2.62E-06	6.88E-08	2.90E-07	1.38E-10	0.00E+00	3.59E-07	4.22E-08	1.33E-07	3.21E-11	0.00E+00	1.75E-07
3250	420763.41	3734783.66	4.46E-07	1.88E-06	8.26E-10	0.00E+00	2.33E-06	6.11E-08	2.57E-07	1.23E-10	0.00E+00	3.19E-07	3.75E-08	1.18E-07	2.85E-11	0.00E+00	1.56E-07
3251	420754.46	3734787.41	3.93E-07	1.66E-06	7.28E-10	0.00E+00	2.05E-06	5.39E-08	2.27E-07	1.08E-10	0.00E+00	2.81E-07	3.31E-08	1.04E-07	2.52E-11	0.00E+00	1.37E-07
3252	420745.51	3734791.16	3.44E-07	1.45E-06	6.38E-10	0.00E+00	1.80E-06	4.72E-08	1.99E-07	9.50E-11	0.00E+00	2.46E-07	2.90E-08	9.13E-08	2.20E-11	0.00E+00	1.20E-07
3253	420992.96	3734531.9	4.58E-07	1.93E-06	8.48E-10	0.00E+00	2.39E-06	6.27E-08	2.64E-07	1.26E-10	0.00E+00	3.27E-07	3.85E-08	1.21E-07	2.93E-11	0.00E+00	1.60E-07
3254	420993.23	3734521.92	4.28E-07	1.81E-06	7.94E-10	0.00E+00	2.24E-06	5.87E-08	2.47E-07	1.18E-10	0.00E+00	3.06E-07	3.60E-08	1.14E-07	2.74E-11	0.00E+00	1.50E-07
3255	420993.5	3734511.93	3.99E-07	1.68E-06	7.39E-10	0.00E+00	2.08E-06	5.47E-08	2.30E-07	1.10E-10	0.00E+00	2.85E-07	3.36E-08	1.06E-07	2.55E-11	0.00E+00	1.39E-07
3256	420992.9	3734588.06	5.88E-07	2.48E-06	1.09E-09	0.00E+00	3.07E-06	8.05E-08	3.39E-07	1.62E-10	0.00E+00	4.20E-07	4.94E-08	1.56E-07	3.76E-11	0.00E+00	2.05E-07
3257	420988.94	3734597.19	6.26E-07	2.64E-06	1.16E-09	0.00E+00	3.27E-06	8.58E-08	3.61E-07	1.73E-10	0.00E+00	4.47E-07	5.27E-08	1.66E-07	4.01E-11	0.00E+00	2.19E-07
3258	420984.98	3734606.32	6.63E-07	2.80E-06	1.23E-09	0.00E+00	3.47E-06	9.09E-08	3.83E-07	1.83E-10	0.00E+00	4.74E-07	5.58E-08	1.76E-07	4.25E-11	0.00E+00	2.32E-07
3259	420981.03	3734615.45	6.99E-07	2.95E-06	1.30E-09	0.00E+00	3.65E-06	9.59E-08	4.04E-07	1.93E-10	0.00E+00	5.00E-07	5.88E-08	1.86E-07	4.48E-11	0.00E+00	2.44E-07
3260	420977.07	3734624.58	7.34E-07	3.10E-06	1.36E-09	0.00E+00	3.83E-06	1.01E-07	4.24E-07	2.03E-10	0.00E+00	5.25E-07	6.17E-08	1.95E-07	4.70E-11	0.00E+00	2.57E-07
3261	420973.11	3734633.71	7.66E-07	3.23E-06	1.42E-09	0.00E+00	4.00E-06	1.05E-07	4.42E-07	2.11E-10	0.00E+00	5.48E-07	6.45E-08	2.03E-07	4.91E-11	0.00E+00	2.68E-07
3262	420969.15	3734642.84	7.96E-07	3.36E-06	1.47E-09	0.00E+00	4.16E-06	1.09E-07	4.59E-07	2.20E-10	0.00E+00	5.69E-07	6.69E-08	2.11E-07	5.10E-11	0.00E+00	2.78E-07
3263	420965.19	3734651.97	8.21E-07	3.47E-06	1.52E-09	0.00E+00	4.29E-06	1.13E-07	4.74E-07	2.26E-10	0.00E+00	5.87E-07	6.91E-08	2.18E-07	5.26E-11	0.00E+00	2.87E-07
3264	420961.23	3734661.1	8.40E-07	3.55E-06	1.56E-09	0.00E+00	4.39E-06	1.15E-07	4.85E-07	2.32E-10	0.00E+00	6.00E-07	7.07E-08	2.23E-07	5.38E-11	0.00E+00	2.94E-07
3265	420957.28	3734670.23	8.53E-07	3.60E-06	1.58E-09	0.00E+00	4.46E-06	1.17E-07	4.93E-07	2.35E-10	0.00E+00	6.10E-07	7.18E-08	2.26E-07	5.46E-11	0.00E+00	2.98E-07
3266	420953.32	3734679.36	8.62E-07	3.64E-06	1.60E-09	0.00E+00	4.50E-06	1.18E-07	4.98E-07	2.38E-10	0.00E+00	6.16E-07	7.25E-08	2.29E-07	5.52E-11	0.00E+00	3.01E-07
3267	420949.36	3734688.49	8.66E-07	3.66E-06	1.61E-09	0.00E+00	4.53E-06	1.19E-07	5.00E-07	2.39E-10	0.00E+00	6.19E-07	7.29E-08	2.30E-07	5.55E-11	0.00E+00	3.03E-07
3268	420945.4	3734697.62	8.66E-07	3.66E-06	1.61E-09	0.00E+00	4.53E-06	1.19E-07	5.00E-07	2.39E-10	0.00E+00	6.19E-07	7.29E-08	2.30E-07	5.55E-11	0.00E+00	3.03E-07
3269	420941.44	3734706.75	8.62E-07	3.64E-06	1.60E-09	0.00E+00	4.50E-06	1.18E-07	4.98E-07	2.38E-10	0.00E+00	6.16E-07	7.25E-08	2.29E-07	5.52E-11	0.00E+00	3.01E-07
3270	420937.49	3734715.87	8.50E-07	3.59E-06	1.58E-09	0.00E+00	4.44E-06	1.17E-07	4.91E-07	2.35E-10	0.00E+00	6.08E-07	7.15E-08	2.26E-07	5.45E-11	0.00E+00	2.97E-07
3271	420933.53	3734725	8.34E-07	3.52E-06	1.55E-09	0.00E+00	4.36E-06	1.14E-07	4.82E-07	2.30E-10	0.00E+00	5.96E-07	7.02E-08	2.21E-07	5.34E-11	0.00E+00	2.92E-07
3272	420883.68	3734753.37	8.66E-07	3.66E-06	1.60E-09	0.00E+00	4.52E-06	1.19E-07	5.00E-07	2.39E-10	0.00E+00	6.19E-07	7.28E-08	2.30E-07	5.55E-11	0.00E+00	3.03E-07
3273	420874.51	3734757.21	8.58E-07	3.62E-06	1.59E-09	0.00E+00	4.48E-06	1.18E-07	4.96E-07	2.37E-10	0.00E+00	6.13E-07	7.22E-08	2.28E-07	5.50E-11	0.00E+00	3.00E-07
3274	420865.33	3734761.06	8.44E-07	3.56E-06	1.56E-09	0.00E+00	4.41E-06	1.16E-07	4.87E-07	2.33E-10	0.00E+00	6.03E-07	7.10E-08	2.24E-07	5.40E-11	0.00E+00	2.95E-07
3275	420856.15	3734764.91	8.22E-07	3.47E-06	1.52E-09	0.00E+00	4.29E-06	1.13E-07	4.74E-07	2.27E-10	0.00E+00	5.87E-07	6.91E-08	2.18E-07	5.26E-11	0.00E+00	2.87E-07
3276	420846.98	3734768.75	7.91E-07	3.34E-06	1.47E-09	0.00E+00	4.13E-06	1.08E-07	4.57E-07	2.18E-10	0.00E+00	5.65E-07	6.65E-08	2.10E-07	5.07E-11	0.00E+00	2.77E-07
3277	420837.8	3734772.6	7.54E-07	3.18E-06	1.40E-09	0.00E+00	3.94E-06	1.03E-07	4.35E-07	2.08E-10	0.00E+00	5.39E-07	6.34E-08	2.00E-07	4.83E-11	0.00E+00	2.64E-07
3278	420828.62	3734776.45	7.12E-07	3.01E-06	1.32E-09	0.00E+00	3.72E-06	9.77E-08	4.11E-07	1.97E-10	0.00E+00	5.09E-07	5.99E-08	1.89E-07	4.56E-11	0.00E+00	2.49E-07
3279	420819.45	3734780.29	6.67E-07	2.82E-06	1.24E-09	0.00E+00	3.48E-06	9.14E-08	3.85E-07	1.84E-10	0.00E+00	4.77E-07	5.61E-08	1.77E-07	4.27E-11	0.00E+00	2.33E-07
3280	420810.27	3734784.14	6.18E-07	2.61E-06	1.14E-09	0.00E+00	3.23E-06	8.47E-08	3.57E-07	1.70E-10	0.00E+00	4.42E-07	5.20E-08	1.64E-07	3.96E-11	0.00E+00	2.16E-07
3281	420801.09	3734787.98	5.69E-07	2.40E-06	1.05E-09	0.00E+00	2.97E-06	7.80E-08	3.28E-07	1.57E-10	0.00E+00	4.06E-07	4.78E-08	1.51E-07	3.64E-11	0.00E+00	1.99E-07
3282	420791.92	3734791.83	5.19E-07	2.19E-06	9.61E-10	0.00E+00	2.71E-06	7.11E-08	2.99E-07	1.43E-10	0.00E+00	3.71E-07	4.36E-08	1.38E-07	3.32E-11	0.00E+00	1.81E-07
3283	420782.74	3734795.68	4.68E-07	1.98E-06	8.67E-10	0.00E+00	2.44E-06	6.41E-08	2.70E-07	1.29E-10	0.00E+00	3.34E-07	3.94E-08	1.24E-07	3.00E-11	0.00E+00	1.64E-07
3284	420773.56	3734799.52	4.18E-07	1.77E-06	7.75E-10	0.00E+00	2.19E-06	5.74E-08	2.42E-07	1.15E-10	0.00E+00	2.99E-07	3.52E-08	1.11E-07	2.68E-11	0.00E+00	1.46E-07
3285	420764.38	3734803.37	3.72E-07	1.57E-06	6.88E-10	0.00E+00	1.94E-06	5.09E-08	2.15E-07	1.03E-10	0.00E+00	2.66E-07	3.13E-08	9.86E-08	2.38E-11	0.00E+00	1.30E-07
3286	420755.21	3734807.22	3.28E-07	1.38E-06	6.07E-10	0.00E+00	1.71E-06	4.49E-08	1.89E-07	9.05E-11	0.00E+00	2.34E-07	2.76E-08	8.70E-08	2.10E-11	0.00E+00	1.15E-07
3287	420746.03	3734811.06	2.88E-07	1.21E-06	5.33E-10	0.00E+00	1.50E-06	3.94E-08	1.66E-07	7.94E-11	0.00E+00	2.06E-07	2.42E-08	7.63E-08	1.84E-11	0.00E+00	1.01E-07
3288	421012.96	3734532.43	3.86E-07	1.63E-06	7.15E-10	0.00E+00	2.02E-06	5.29E-08	2.23E-07	1.06E-10	0.00E+00	2.76E-07	3.25E-08	1.02E-07	2.47E-11	0.00E+00	1.35E-07
3289	421013.22	3734522.45	3.62E-07	1.53E-06	6.70E-10	0.00E+00	1.89E-06	4.96E-08	2.09E-07	9.98E-11	0.00E+00	2.59E-07	3.04E-08	9.60E-08	2.32E-11	0.00E+00	1.26E-07
3290	421013.49	3734512.47	3.37E-07	1.42E-06	6.24E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.29E-11	0.00E+00	2.41E-07	2.83E-08	8.93E-08	2.16E-11	0.00E+00	1.18E-07
3291	421024.94	3734560.81	4.06E-07	1.72E-06	7.53E-10	0.00E+00	2.12E-06	5.57E-08	2.35E-07	1.12E-10	0.00E+00	2.90E-07	3.42E-08	1.08E-07	2.60E-11	0.00E+00	1.42E-07
3292	421021.07	3734569.74	4.36E-07	1.84E-06	8.08E-10	0.00E+00	2.28E-06	5.98E-08	2.52E-07	1.20E-10	0.00E+00	3.12E-07	3.67E-08	1.16E-07	2.79E-11	0.00E+00	1.52E-07
3293	421017.19	3734578.67	4.65E-07	1.97E-06	8.62E-10	0.00E+00	2.43E-06	6.38E-08	2.69E-07	1.28E-10	0.00E+00	3.33E-07	3.92E-08	1.24E-07	2.98E-11	0.00E+00	1.63E-07
3294	420993.96	3734632.26	6.45E-07	2.72E-06	1.20E-09	0.00E+00	3.37E-06	8.84E-08	3.72E-07	1.78E-10	0.00E+00	4.61E-07	5.43E-08	1.71E-07	4.13E-11	0.00E+00	2.25E-07
3295	420990.09	3734641.19	6.71E-07	2.83E-06	1.24E-09	0.00E+00	3.50E-06	9.19E-08	3.87E-07	1.85E-10	0.00E+00	4.79E-07	5.64E-08	1.78E-07	4.30E-11	0.00E+00	2.34E-07
3296	420986.22	3734650.12	6.96E-07	2.94E-06	1.29E-09	0.00E+00	3.64E-06	9.54E-08	4.02E-07	1.92E-10	0.00E+00	4.97E-07	5.86E-08	1.85E-07	4.46E-11	0.00E+00	2.43E-07
3297	420982.35	3734659.05	7.18E-07	3.03E-06	1.33E-09	0.00E+00	3.75E-06	9.85E-08	4.15E-07	1.98E-10	0.00E+00	5.13E-07	6.04E-08	1.91E-07	4.60E-11	0.00E+00	2.51E-07
3298	420978.47	3734667.98	7.35E-07	3.10E-06	1.36E-09	0.00E+00	3.84E-06	1.01E-07	4.24E-07	2.03E-10	0.00E+00	5.25E-07	6.18E-08	1.95E-07	4.71E-11	0.00E+00	2.57E-07
3299	420974.6	3734676.91	7.47E-07	3.15E-06	1.38E-09	0.00E+00	3.90E-06	1.02E-07	4.31E-07	2.06E-10	0.00E+00	5.34E-07	6.28E-08	1.98E-07	4.79E-11	0.00E+00	2.61E-07
3300	420970.73	3734685.84	7.56E-07	3.19E-06	1.40E-09	0.00E+00	3.95E-06	1.04E-07	4.37E-07	2.09E-10	0.00E+00	5.40E-07	6.36E-08	2.01E-07	4.84E-11	0.00E+00	2.64E-07
3301	420966.86	3734694.78	7.62E-07	3.22E-06	1.41E-09	0.00E+00	3.98E-06	1.04E-07	4.40E-07	2.10E-10	0.00E+00	5.45E-07	6.41E-08	2.02E-07	4.88E-11	0.00E+00	2.66E-07
3302	420962.99	3734703.71	7.64E-07	3.23E-06	1.42E-09	0.00E+00	3.99E-06	1.05E-07	4.41E-07	2.11E-10	0.00E+00	5.46E-07	6.43E-08	2.03E-07	4.90E-11	0.00E+00	2.67E-07
3303	420959.11	3734712.64	7.61E-07	3.22E-06	1.41E-09	0.00E+00	3.98E-06	1.04E-07	4.40E-07	2.10E-10	0.00E+00	5.44E-07	6.41E-08	2.02E-07	4.88E-11	0.00E+00	2.66E-07
3304	420955.24	3734721.57	7.54E-07	3.18E-06	1.40E-09	0.00E+00	3.94E-06	1.03E-07	4.35E-07	2.08E-10	0.00E+00	5.39E-07	6.34E-08	2.00E-07	4.83E-11	0.00E+00	2.64E-07
3305	420951.37	3734730.5	7.43E-07	3.14E-06	1.38E-09	0.00E+00	3.88E-06	1.02E-07	4.29E-07	2.05E-10	0.00E+00	5.31E-07	6.25E-08	1.97E-07	4.76E-11	0.00E+00	2.60E-07
3306	420934.65	3734752.12	7.33E-07	3.10E-06	1.36E-09	0.00E+00	3.83E-06	1.00E-07	4.23E-07	2.02E-10	0.00E+00	5.24E-07	6.17E-08	1.95E-07	4.70E-11	0.00E+00	2.56E-07
3307	420925.67	3734755.89	7.47E-07	3.15E-06	1.38E-09	0.00E+00	3.90E-06	1.02E-07	4.31E-07	2.06E-10	0.00E+00	5.34E-07	6.28E-08	1.98E-07	4.78E-11	0.00E+00	2.61E-07
3308	420916.69	3734759.65	7.57E-07	3.20E-06	1.40E-09	0.00E+00	3.96E-06	1.04E-07	4.37E-07	2.09E-10	0.00E+00	5.41E-07	6.37E-08	2.01E-07	4.85E-11	0.00E+00	2.65E-07

3309	420907.72	3734763.41	7.64E-07	3.23E-06	1.42E-09	0.00E+00	3.99E-06	1.05E-07	4.41E-07	2.11E-10	0.00E+00	5.46E-07	6.43E-08	2.03E-07	4.89E-11	0.00E+00	2.67E-07
3310	420898.74	3734767.18	7.70E-07	3.25E-06	1.43E-09	0.00E+00	4.03E-06	1.06E-07	4.45E-07	2.13E-10	0.00E+00	5.51E-07	6.48E-08	2.04E-07	4.94E-11	0.00E+00	2.69E-07
3311	420889.76	3734770.94	7.67E-07	3.24E-06	1.42E-09	0.00E+00	4.01E-06	1.05E-07	4.43E-07	2.12E-10	0.00E+00	5.48E-07	6.45E-08	2.04E-07	4.91E-11	0.00E+00	2.68E-07
3312	420880.78	3734774.7	7.57E-07	3.20E-06	1.40E-09	0.00E+00	3.96E-06	1.04E-07	4.37E-07	2.09E-10	0.00E+00	5.41E-07	6.37E-08	2.01E-07	4.85E-11	0.00E+00	2.65E-07
3313	420871.81	3734778.46	7.42E-07	3.13E-06	1.37E-09	0.00E+00	3.88E-06	1.02E-07	4.28E-07	2.05E-10	0.00E+00	5.30E-07	6.24E-08	1.97E-07	4.75E-11	0.00E+00	2.59E-07
3314	420862.83	3734782.23	7.21E-07	3.04E-06	1.34E-09	0.00E+00	3.77E-06	9.88E-08	4.16E-07	1.99E-10	0.00E+00	5.15E-07	6.07E-08	1.91E-07	4.62E-11	0.00E+00	2.52E-07
3315	420853.85	3734785.99	6.95E-07	2.93E-06	1.29E-09	0.00E+00	3.63E-06	9.53E-08	4.01E-07	1.92E-10	0.00E+00	4.97E-07	5.85E-08	1.84E-07	4.45E-11	0.00E+00	2.43E-07
3316	420844.87	3734789.75	6.63E-07	2.80E-06	1.23E-09	0.00E+00	3.47E-06	9.09E-08	3.83E-07	1.83E-10	0.00E+00	4.74E-07	5.58E-08	1.76E-07	4.25E-11	0.00E+00	2.32E-07
3317	420835.9	3734793.52	6.28E-07	2.65E-06	1.16E-09	0.00E+00	3.28E-06	8.61E-08	3.63E-07	1.73E-10	0.00E+00	4.49E-07	5.28E-08	1.67E-07	4.02E-11	0.00E+00	2.20E-07
3318	420826.92	3734797.28	5.90E-07	2.49E-06	1.09E-09	0.00E+00	3.08E-06	8.09E-08	3.41E-07	1.63E-10	0.00E+00	4.22E-07	4.97E-08	1.57E-07	3.78E-11	0.00E+00	2.06E-07
3319	420817.94	3734801.04	5.50E-07	2.32E-06	1.02E-09	0.00E+00	2.87E-06	7.54E-08	3.17E-07	1.52E-10	0.00E+00	3.93E-07	4.63E-08	1.46E-07	3.52E-11	0.00E+00	1.92E-07
3320	420808.96	3734804.81	5.08E-07	2.14E-06	9.41E-10	0.00E+00	2.65E-06	6.96E-08	2.93E-07	1.40E-10	0.00E+00	3.63E-07	4.27E-08	1.35E-07	3.25E-11	0.00E+00	1.78E-07
3321	420799.99	3734808.57	4.66E-07	1.97E-06	8.64E-10	0.00E+00	2.43E-06	6.39E-08	2.69E-07	1.29E-10	0.00E+00	3.33E-07	3.92E-08	1.24E-07	2.99E-11	0.00E+00	1.63E-07
3322	420791.01	3734812.33	4.24E-07	1.79E-06	7.86E-10	0.00E+00	2.21E-06	5.81E-08	2.45E-07	1.17E-10	0.00E+00	3.03E-07	3.57E-08	1.13E-07	2.72E-11	0.00E+00	1.48E-07
3323	420782.03	3734816.09	3.82E-07	1.62E-06	7.09E-10	0.00E+00	2.00E-06	5.24E-08	2.21E-07	1.06E-10	0.00E+00	2.73E-07	3.22E-08	1.02E-07	2.45E-11	0.00E+00	1.34E-07
3324	420773.05	3734819.86	3.44E-07	1.45E-06	6.37E-10	0.00E+00	1.80E-06	4.71E-08	1.98E-07	9.48E-11	0.00E+00	2.46E-07	2.89E-08	9.12E-08	2.20E-11	0.00E+00	1.20E-07
3325	420764.08	3734823.62	3.08E-07	1.30E-06	5.70E-10	0.00E+00	1.61E-06	4.22E-08	1.78E-07	8.49E-11	0.00E+00	2.20E-07	2.59E-08	8.17E-08	1.97E-11	0.00E+00	1.08E-07
3326	420755.1	3734827.38	2.73E-07	1.15E-06	5.06E-10	0.00E+00	1.43E-06	3.75E-08	1.58E-07	7.54E-11	0.00E+00	1.95E-07	2.30E-08	7.25E-08	1.75E-11	0.00E+00	9.56E-08
3327	420746.12	3734831.15	2.40E-07	1.01E-06	4.45E-10	0.00E+00	1.25E-06	3.29E-08	1.39E-07	6.62E-11	0.00E+00	1.72E-07	2.02E-08	6.37E-08	1.54E-11	0.00E+00	8.39E-08
3328	421032.95	3734532.97	3.28E-07	1.38E-06	6.07E-10	0.00E+00	1.71E-06	4.49E-08	1.89E-07	9.04E-11	0.00E+00	2.34E-07	2.76E-08	8.69E-08	2.10E-11	0.00E+00	1.15E-07
3329	421033.22	3734522.98	3.07E-07	1.30E-06	5.69E-10	0.00E+00	1.60E-06	4.21E-08	1.77E-07	8.47E-11	0.00E+00	2.19E-07	2.58E-08	8.14E-08	1.97E-11	0.00E+00	1.07E-07
3330	421033.48	3734513	2.86E-07	1.21E-06	5.30E-10	0.00E+00	1.50E-06	3.92E-08	1.65E-07	7.90E-11	0.00E+00	2.05E-07	2.41E-08	7.59E-08	1.83E-11	0.00E+00	1.00E-07
3331	421064.9	3734561.93	3.03E-07	1.28E-06	5.61E-10	0.00E+00	1.58E-06	4.15E-08	1.75E-07	8.35E-11	0.00E+00	2.16E-07	2.55E-08	8.03E-08	1.94E-11	0.00E+00	1.06E-07
3332	421061.02	3734570.88	3.24E-07	1.37E-06	6.01E-10	0.00E+00	1.70E-06	4.45E-08	1.87E-07	8.95E-11	0.00E+00	2.32E-07	2.73E-08	8.61E-08	2.08E-11	0.00E+00	1.13E-07
3333	421057.14	3734579.83	3.47E-07	1.46E-06	6.42E-10	0.00E+00	1.81E-06	4.75E-08	2.00E-07	9.57E-11	0.00E+00	2.48E-07	2.92E-08	9.20E-08	2.22E-11	0.00E+00	1.21E-07
3334	421053.26	3734588.79	3.69E-07	1.56E-06	6.84E-10	0.00E+00	1.93E-06	5.06E-08	2.13E-07	1.02E-10	0.00E+00	2.64E-07	3.11E-08	9.80E-08	2.37E-11	0.00E+00	1.29E-07
3335	421049.38	3734597.74	3.92E-07	1.65E-06	7.26E-10	0.00E+00	2.05E-06	5.37E-08	2.26E-07	1.08E-10	0.00E+00	2.80E-07	3.29E-08	1.04E-07	2.51E-11	0.00E+00	1.37E-07
3336	421045.49	3734606.7	4.14E-07	1.75E-06	7.67E-10	0.00E+00	2.16E-06	5.67E-08	2.39E-07	1.14E-10	0.00E+00	2.96E-07	3.48E-08	1.10E-07	2.65E-11	0.00E+00	1.45E-07
3337	421041.61	3734615.65	4.36E-07	1.84E-06	8.07E-10	0.00E+00	2.28E-06	5.97E-08	2.52E-07	1.20E-10	0.00E+00	3.11E-07	3.67E-08	1.16E-07	2.79E-11	0.00E+00	1.52E-07
3338	421037.73	3734624.6	4.57E-07	1.93E-06	8.48E-10	0.00E+00	2.39E-06	6.27E-08	2.64E-07	1.26E-10	0.00E+00	3.27E-07	3.85E-08	1.21E-07	2.93E-11	0.00E+00	1.60E-07
3339	421033.85	3734633.56	4.78E-07	2.02E-06	8.86E-10	0.00E+00	2.50E-06	6.56E-08	2.76E-07	1.32E-10	0.00E+00	3.42E-07	4.03E-08	1.27E-07	3.06E-11	0.00E+00	1.67E-07
3340	421029.97	3734642.51	4.98E-07	2.10E-06	9.24E-10	0.00E+00	2.60E-06	6.83E-08	2.88E-07	1.38E-10	0.00E+00	3.56E-07	4.19E-08	1.32E-07	3.19E-11	0.00E+00	1.74E-07
3341	421026.08	3734651.46	5.17E-07	2.18E-06	9.57E-10	0.00E+00	2.70E-06	7.08E-08	2.98E-07	1.43E-10	0.00E+00	3.69E-07	4.35E-08	1.37E-07	3.31E-11	0.00E+00	1.81E-07
3342	421022.2	3734660.42	5.33E-07	2.25E-06	9.88E-10	0.00E+00	2.79E-06	7.31E-08	3.08E-07	1.47E-10	0.00E+00	3.81E-07	4.49E-08	1.42E-07	3.42E-11	0.00E+00	1.86E-07
3343	421018.32	3734669.37	5.49E-07	2.32E-06	1.02E-09	0.00E+00	2.87E-06	7.52E-08	3.17E-07	1.51E-10	0.00E+00	3.92E-07	4.62E-08	1.46E-07	3.52E-11	0.00E+00	1.92E-07
3344	421014.44	3734678.33	5.64E-07	2.38E-06	1.05E-09	0.00E+00	2.95E-06	7.74E-08	3.26E-07	1.56E-10	0.00E+00	4.03E-07	4.75E-08	1.50E-07	3.62E-11	0.00E+00	1.97E-07
3345	420995.03	3734723.09	5.99E-07	2.53E-06	1.11E-09	0.00E+00	3.13E-06	8.22E-08	3.46E-07	1.65E-10	0.00E+00	4.28E-07	5.04E-08	1.59E-07	3.84E-11	0.00E+00	2.10E-07
3346	420983.38	3734749.96	5.88E-07	2.48E-06	1.09E-09	0.00E+00	3.07E-06	8.06E-08	3.40E-07	1.62E-10	0.00E+00	4.20E-07	4.95E-08	1.56E-07	3.77E-11	0.00E+00	2.06E-07
3347	420979.5	3734758.91	5.81E-07	2.45E-06	1.08E-09	0.00E+00	3.03E-06	7.96E-08	3.35E-07	1.60E-10	0.00E+00	4.15E-07	4.89E-08	1.54E-07	3.72E-11	0.00E+00	2.03E-07
3348	420975.62	3734767.86	5.72E-07	2.41E-06	1.06E-09	0.00E+00	2.99E-06	7.84E-08	3.30E-07	1.58E-10	0.00E+00	4.09E-07	4.81E-08	1.52E-07	3.66E-11	0.00E+00	2.00E-07
3349	420962.74	3734780.59	5.77E-07	2.44E-06	1.07E-09	0.00E+00	3.02E-06	7.91E-08	3.33E-07	1.59E-10	0.00E+00	4.13E-07	4.86E-08	1.53E-07	3.70E-11	0.00E+00	2.02E-07
3350	420953.74	3734784.36	5.90E-07	2.49E-06	1.09E-09	0.00E+00	3.08E-06	8.09E-08	3.41E-07	1.63E-10	0.00E+00	4.22E-07	4.96E-08	1.57E-07	3.78E-11	0.00E+00	2.06E-07
3351	420944.73	3734788.14	6.00E-07	2.53E-06	1.11E-09	0.00E+00	3.14E-06	8.23E-08	3.47E-07	1.66E-10	0.00E+00	4.29E-07	5.05E-08	1.59E-07	3.85E-11	0.00E+00	2.10E-07
3352	420935.73	3734791.91	6.08E-07	2.57E-06	1.13E-09	0.00E+00	3.18E-06	8.34E-08	3.51E-07	1.68E-10	0.00E+00	4.35E-07	5.12E-08	1.61E-07	3.90E-11	0.00E+00	2.13E-07
3353	420926.73	3734795.68	6.12E-07	2.59E-06	1.13E-09	0.00E+00	3.20E-06	8.40E-08	3.54E-07	1.69E-10	0.00E+00	4.38E-07	5.15E-08	1.63E-07	3.92E-11	0.00E+00	2.14E-07
3354	420917.73	3734799.45	6.13E-07	2.59E-06	1.14E-09	0.00E+00	3.20E-06	8.40E-08	3.54E-07	1.69E-10	0.00E+00	4.38E-07	5.15E-08	1.63E-07	3.93E-11	0.00E+00	2.14E-07
3355	420908.73	3734803.23	6.09E-07	2.57E-06	1.13E-09	0.00E+00	3.18E-06	8.35E-08	3.52E-07	1.68E-10	0.00E+00	4.36E-07	5.13E-08	1.62E-07	3.90E-11	0.00E+00	2.13E-07
3356	420899.73	3734807	6.02E-07	2.54E-06	1.12E-09	0.00E+00	3.15E-06	8.26E-08	3.48E-07	1.66E-10	0.00E+00	4.31E-07	5.07E-08	1.60E-07	3.86E-11	0.00E+00	2.11E-07
3357	420890.73	3734810.77	5.91E-07	2.50E-06	1.10E-09	0.00E+00	3.09E-06	8.10E-08	3.41E-07	1.63E-10	0.00E+00	4.23E-07	4.97E-08	1.57E-07	3.79E-11	0.00E+00	2.07E-07
3358	420881.73	3734814.54	5.76E-07	2.43E-06	1.07E-09	0.00E+00	3.01E-06	7.90E-08	3.33E-07	1.59E-10	0.00E+00	4.12E-07	4.85E-08	1.53E-07	3.69E-11	0.00E+00	2.01E-07
3359	420872.73	3734818.32	5.57E-07	2.35E-06	1.03E-09	0.00E+00	2.91E-06	7.64E-08	3.22E-07	1.54E-10	0.00E+00	3.98E-07	4.69E-08	1.48E-07	3.57E-11	0.00E+00	1.95E-07
3360	420863.73	3734822.09	5.35E-07	2.26E-06	9.92E-10	0.00E+00	2.80E-06	7.34E-08	3.09E-07	1.48E-10	0.00E+00	3.83E-07	4.50E-08	1.42E-07	3.43E-11	0.00E+00	1.87E-07
3361	420854.73	3734825.86	5.11E-07	2.16E-06	9.46E-10	0.00E+00	2.67E-06	7.00E-08	2.95E-07	1.41E-10	0.00E+00	3.65E-07	4.30E-08	1.35E-07	3.27E-11	0.00E+00	1.78E-07
3362	420845.73	3734829.63	4.84E-07	2.04E-06	8.96E-10	0.00E+00	2.53E-06	6.63E-08	2.79E-07	1.33E-10	0.00E+00	3.46E-07	4.07E-08	1.28E-07	3.10E-11	0.00E+00	1.69E-07
3363	420836.73	3734833.41	4.55E-07	1.92E-06	8.42E-10	0.00E+00	2.37E-06	6.23E-08	2.62E-07	1.25E-10	0.00E+00	3.25E-07	3.82E-08	1.21E-07	2.91E-11	0.00E+00	1.59E-07
3364	420827.73	3734837.18	4.24E-07	1.79E-06	7.86E-10	0.00E+00	2.22E-06	5.82E-08	2.45E-07	1.17E-10	0.00E+00	3.03E-07	3.57E-08	1.13E-07	2.72E-11	0.00E+00	1.48E-07
3365	420818.73	3734840.95	3.93E-07	1.66E-06	7.29E-10	0.00E+00	2.05E-06	5.39E-08	2.27E-07	1.09E-10	0.00E+00	2.81E-07	3.31E-08	1.04E-07	2.52E-11	0.00E+00	1.37E-07
3366	420809.73	3734844.72	3.62E-07	1.53E-06	6.71E-10	0.00E+00	1.89E-06	4.96E-08	2.09E-07	9.99E-11	0.00E+00	2.59E-07	3.05E-08	9.61E-08	2.32E-11	0.00E+00	1.27E-07
3367	420800.73	3734848.5	3.31E-07	1.40E-06	6.14E-10	0.00E+00	1.73E-06	4.54E-08	1.91E-07	9.14E-11	0.00E+00	2.37E-07	2.79E-08	8.79E-08	2.12E-11	0.00E+00	1.16E-07
3368	420791.73	3734852.27	3.01E-07	1.27E-06	5.58E-10	0.00E+00	1.57E-06	4.13E-08	1.74E-07	8.31E-11	0.00E+00	2.15E-07	2.53E-08	7.99E-08	1.93E-11	0.00E+00	1.05E-07
3369	420782.73	3734856.04	2.72E-07	1.15E-06	5.05E-10	0.00E+00	1.42E-06	3.73E-08	1.57E-07	7.52E-11	0.00E+00	1.95E-07	2.29E-08	7.23E-08	1.74E-11	0.00E+00	9.52E-08
3370	420773.73	3734859.81	2.45E-07	1.03E-06	4.54E-10	0.00E+00	1.28E-06	3.36E-08	1.41E-07	6.75E-11	0.00E+00	1.75E-07	2.06E-08	6.50E-08	1.57E-11	0.00E+00	8.56E-08
3371	420764.73	3734863.59	2.19E-07	9.23E-07	4.05E-10	0.00E+00	1.14E-06	3.00E-08	1.26E-07	6.03E-11	0.00E+00	1.56E-07	1.84E-08	5.80E-08	1.40E-11	0.00E+00	7.64E-08
3372	420755.73	3734867.36	1.94E-07	8.20E-07	3.60E-10	0.00E+00	1.02E-06	2.66E-08	1.12E-07	5.36E-11	0.00E+00	1.39E-07	1.63E-08	5.16E-08	1.24E-11	0.00E+00	6.79E-08
3373	420746.72	3734871.13	1.71E-07	7.24E-07	3.18E-10	0.00E+00	8.96E-07	2.35E-08	9.90E-08	4.73E-11	0.00E+00	1.23E-07	1.44E-08	4.55E-08	1.10E-11	0.00E+00	5.99E-08
3374	421072.94	3734534.04	2.46E-07	1.04E-06	4.55E-10	0.00E+00	1.28E-06	3.37E-08	1.42E-07	6.78E-11	0.00E+00	1.76E-07	2.07E-08	6.52E-08	1.57E-11	0.00E+00	8.59E-08
3375	421073.2	3734524.05	2.30E-07	9.73E-07	4.27E-10	0.00E+00	1.20E-06	3.16E-08	1.33E-07	6.36E-11	0.00E+00	1.65E-07	1.94E-08	6.12E-08	1.48E-11	0.00E+00	8.06E-08
3376	421073.47	3734514.07	2.16E-07	9.10E-07	4.00E-10	0.00E+00	1.13E-06	2.96E-08	1.24E-07	5.95E-11	0.00E+00	1.54E-07	1.81E-08	5.72E-08	1.38E-11	0.00E+00	7.54E-08
3377	421089.32	3734598.92	2.99E-07	1.26E-06	5.55E-10	0.00E+00	1.56E-06	4.10E-08	1.73E-07	8.26E-11	0.00E+00	2.14E-07	2.52E-08	7.95E-08	1.92E-11	0.00E+00	1.05E-07
3378	421085.43	3734607.89	3.17E-07	1.34E-06	5.87E-10	0.00E+00	1.65E-06	4.34E-08	1.83E-07	8.74E-11	0.00E+00	2.26E-07	2.66E-08	8.40E-08	2.03E-11	0.00E+00	1.11E-07
3379	421081.54	3734616.86	3.33E-07	1.40E-06	6.16E-10	0.00E+00	1.74E-06	4.56E-08	1.92E-07	9.18E-11	0.00E+00	2.38E-07	2.80E-08	8.83E-08	2.13E-11	0.00E+00	1.16E-07
3380	421077.65	3734625.83	3.48E-07	1.47E-06	6.45E-10	0.00E+00	1.82E-06	4.77E-08	2.01E-07	9.61E-11	0.00E+00	2.49E-07	2.93E-08	9.24E-08	2.23E-11	0.00E+00	1.22E-07
3381	421073.76	3734634.81	3.64E-07	1.54E-06	6.74E-10	0.00E+00	1.90E-06	4.98E-08	2.10E-07	1.00E-10	0.00E+00	2.60E-07	3.06E-08	9.65E-08	2.33E-11	0.00E+00	1.27E-07
3382	421069.87	3734643.78	3.79E-07	1.60E-06	7.02E-10	0.00E+00	1.98E-06	5.19E-08	2.19E-07	1.05E-10	0.00E+00	2.71E-07	3.19E-08	1.01E-07	2.43E-11	0.00E+00	1.32E-07
3383	421065.98	3734652.75	3.94E-07	1.66E-06	7.30E-10	0.00E+00	2.06E-06	5.40E-08	2.27E-07	1.09E-10	0.00E+00	2.82E-07	3.31E-08	1.05E-07	2.52E-11	0.00E+00	1.38E-07
3384	421062.09	3734661.72	4.08E-07	1.72E-06	7.56E-10	0.00E+00	2.13E-06	5.59E-08	2.36E-07	1.13E-10	0.00E+00	2.92E-07	3.43E-08	1.08E-07	2.61E-11	0.00E+00	1.43E-07
3385	421058.2	3734670.69	4.21E-07	1.78E-06	7.81E-10	0.00E+00	2.20E-06	5.77E-08	2.43E-07	1.16E-10	0.00E+00	3.01E-07	3.54E-08	1.12E-07	2.70E-11	0.00E+00	1.47E-07
3386	421054.31	3734679.67	4.33E-07	1.83E-06	8.03E-10	0.00E+00	2.26E-06	5.94E-08	2.50E-07	1.20E-10	0.00E+00	3.10E-07	3.65E-08	1.15E-07	2.78E-11	0.00E+00	1.52E-07
3387	421050.42	3734688.64	4.44E-07	1.88E-06	8.23E-10	0.00E+00	2.32E-06	6.09E-08	2.57E-07	1.23E-10	0.00E+00	3.18E-07	3.74E-08	1.18E-07	2.85E-11	0.00E+00	1.55E-07
3388	421046.53	3734697.61	4.55E-07	1.92E-06	8.42E-10	0.00E+00	2.37E-06	6.23E-08	2.62E-07	1.25E-10	0.00E+00	3.25E-07	3.82E-08	1.21E-07	2.91E-11	0.00E+00	1.59E-07
3389	421042.64	3734706.58	4.65E-07	1.96E-06	8.61E-10	0.00E+00	2.43E-06	6.37E-08	2.68E-07	1.28E-10	0.00E+00	3.32E-07	3.91E-08	1.23E-07	2.98E-11	0.00E+00	1.62E-07
3390	421038.75	3734715.55	4.73E-07	2.00E-06	8.76E-10	0.00E+00	2.47E-06	6.48E-08	2.73E-07	1.31E-10	0.00E+00	3.38E-07	3.98E-08	1.26E-07	3.03E-11	0.00E+00	1.65E-07
3391	421034.86	3734724.53	4.79E-07	2.02E-06	8.87E-10	0.00E+00	2.50E-06	6.57E-08	2.77E-07	1.32E-10	0.00E+00	3.42E-07	4.03E-08	1.27E-07	3.07E-11	0.00E+00	1.67E-07
3392	421023.19	3734751.44	4.82E-07	2.04E-06	8.94E-10	0.00E+00	2.52E-06	6.61E-08	2.79E-07	1.33E-10	0.00E+00	3.45E-07	4.06E-08	1.28E-07	3.09E-11	0.00E+00	1.69E-07
3393	421019.3	3734760.41	4.81E-07	2.03E-06	8.91E-10	0.00E+00	2.51E-06	6.59E-08	2.78E-07	1.33E-10	0.00E+00	3.44E-07	4.04E-08	1.28E-07	3.08E-11	0.00E+00	1.68E-07
3394	420990.83	3734809.05	4.66E-07	1.97E-06	8.63E-10	0.00E+00	2.43E-06	6.38E-08	2.69E-07	1.29E-10	0.00E+00	3.33E-07	3.92E-08	1.24E-07	2.98E-11	0.00E+00	1.63E-07
3395	420981.81	3734812.83	4.75E-07	2.00E-06	8.80E-10	0.00E+00	2.48E-06	6.51E-08	2.74E-07	1.31E-10	0.00E+00	3.39E-07	3.99E-08	1.26E-07	3.04E-11	0.00E+00	1.66E-07
3396	420972.79	3734816.61	4.83E-07	2.04E-06	8.94E-10	0.00E+00	2.52E-06	6.61E-08	2.79E-07	1.33E-10	0.00E+00	3.45E-07	4.06E-08	1.28E-07	3.09E-11	0.00E+00	1.69E-07
3397	420963.77	3734820.39	4.89E-07	2.06E-06	9.05E-10	0.00E+00	2.55E-06	6.70E-08	2.82E-07	1.35E-10	0.00E+00	3.49E-07	4.11E-08	1.30E-07	3.13E-11	0.00E+00	1.71E-07
3398	420954.75	3734824.17	4.94E-07	2.08E-06	9.15E-10	0.00E+00	2.58E-06	6.77E-08	2.85E-07	1.36E-10	0.00E+00	3.53E-07	4.15E-08	1.31E-07	3.16E-11	0.00E+00	1.73E-07
3399	420945.74	3734827.95	4.97E-07	2.10E-06	9.20E-10	0.00E+00	2.59E-06	6.81E-08	2.87E-07	1.37E-10	0.00E+00	3.55E-07	4.18E-08	1.32E-07	3.18E-11	0.00E+00	1.74E-07
3400	420936.72	3734831.74	4.97E-07	2.10E-06	9.21E-10	0.00E+00	2.60E-06	6.81E-08	2.87E-07	1.37E-10	0.00E+00	3.55E-07	4.18E-08	1.32E-07	3.18E-11	0.00E+00	1.74E-07

3401	420927.7	3734835.52	4.94E-07	2.09E-06	9.16E-10	0.00E+00	2.58E-06	6.78E-08	2.86E-07	1.36E-10	0.00E+00	3.53E-07	4.16E-08	1.31E-07	3.17E-11	0.00E+00	1.73E-07
3402	420918.68	3734839.3	4.89E-07	2.06E-06	9.06E-10	0.00E+00	2.55E-06	6.70E-08	2.82E-07	1.35E-10	0.00E+00	3.50E-07	4.11E-08	1.30E-07	3.13E-11	0.00E+00	1.71E-07
3403	420909.66	3734843.08	4.81E-07	2.03E-06	8.91E-10	0.00E+00	2.51E-06	6.59E-08	2.78E-07	1.33E-10	0.00E+00	3.44E-07	4.05E-08	1.28E-07	3.08E-11	0.00E+00	1.68E-07
3404	420900.64	3734846.86	4.70E-07	1.99E-06	8.71E-10	0.00E+00	2.46E-06	6.45E-08	2.72E-07	1.30E-10	0.00E+00	3.36E-07	3.96E-08	1.25E-07	3.01E-11	0.00E+00	1.64E-07
3405	420891.62	3734850.64	4.57E-07	1.93E-06	8.46E-10	0.00E+00	2.39E-06	6.26E-08	2.64E-07	1.26E-10	0.00E+00	3.26E-07	3.84E-08	1.21E-07	2.92E-11	0.00E+00	1.60E-07
3406	420882.6	3734854.42	4.41E-07	1.86E-06	8.16E-10	0.00E+00	2.30E-06	6.04E-08	2.54E-07	1.22E-10	0.00E+00	3.15E-07	3.71E-08	1.17E-07	2.82E-11	0.00E+00	1.54E-07
3407	420873.59	3734858.2	4.22E-07	1.78E-06	7.83E-10	0.00E+00	2.21E-06	5.79E-08	2.44E-07	1.17E-10	0.00E+00	3.02E-07	3.55E-08	1.12E-07	2.71E-11	0.00E+00	1.48E-07
3408	420864.57	3734861.98	4.03E-07	1.70E-06	7.46E-10	0.00E+00	2.10E-06	5.52E-08	2.32E-07	1.11E-10	0.00E+00	2.88E-07	3.39E-08	1.07E-07	2.58E-11	0.00E+00	1.41E-07
3409	420855.55	3734865.76	3.81E-07	1.61E-06	7.06E-10	0.00E+00	1.99E-06	5.23E-08	2.20E-07	1.05E-10	0.00E+00	2.72E-07	3.21E-08	1.01E-07	2.44E-11	0.00E+00	1.33E-07
3410	420846.53	3734869.54	3.59E-07	1.52E-06	6.65E-10	0.00E+00	1.87E-06	4.92E-08	2.07E-07	9.90E-11	0.00E+00	2.56E-07	3.02E-08	9.52E-08	2.30E-11	0.00E+00	1.25E-07
3411	420837.51	3734873.32	3.36E-07	1.42E-06	6.22E-10	0.00E+00	1.75E-06	4.60E-08	1.94E-07	9.26E-11	0.00E+00	2.40E-07	2.82E-08	8.91E-08	2.15E-11	0.00E+00	1.17E-07
3412	420828.49	3734877.1	3.12E-07	1.32E-06	5.78E-10	0.00E+00	1.63E-06	4.28E-08	1.80E-07	8.61E-11	0.00E+00	2.23E-07	2.63E-08	8.28E-08	2.00E-11	0.00E+00	1.09E-07
3413	420819.47	3734880.88	2.89E-07	1.22E-06	5.35E-10	0.00E+00	1.51E-06	3.96E-08	1.67E-07	7.96E-11	0.00E+00	2.06E-07	2.43E-08	7.66E-08	1.85E-11	0.00E+00	1.01E-07
3414	420810.45	3734884.66	2.65E-07	1.12E-06	4.91E-10	0.00E+00	1.38E-06	3.63E-08	1.53E-07	7.31E-11	0.00E+00	1.89E-07	2.23E-08	7.03E-08	1.70E-11	0.00E+00	9.26E-08
3415	420801.44	3734888.44	2.42E-07	1.02E-06	4.49E-10	0.00E+00	1.27E-06	3.32E-08	1.40E-07	6.69E-11	0.00E+00	1.73E-07	2.04E-08	6.43E-08	1.55E-11	0.00E+00	8.47E-08
3416	420792.42	3734892.22	2.21E-07	9.32E-07	4.09E-10	0.00E+00	1.15E-06	3.03E-08	1.27E-07	6.09E-11	0.00E+00	1.58E-07	1.86E-08	5.86E-08	1.41E-11	0.00E+00	7.71E-08
3417	420783.4	3734896	2.00E-07	8.46E-07	3.71E-10	0.00E+00	1.05E-06	2.75E-08	1.16E-07	5.53E-11	0.00E+00	1.43E-07	1.69E-08	5.32E-08	1.28E-11	0.00E+00	7.01E-08
3418	420774.38	3734899.78	1.81E-07	7.65E-07	3.36E-10	0.00E+00	9.46E-07	2.48E-08	1.05E-07	5.00E-11	0.00E+00	1.29E-07	1.52E-08	4.81E-08	1.16E-11	0.00E+00	6.33E-08
3419	420765.36	3734903.56	1.63E-07	6.88E-07	3.02E-10	0.00E+00	8.52E-07	2.23E-08	9.41E-08	4.50E-11	0.00E+00	1.17E-07	1.37E-08	4.33E-08	1.04E-11	0.00E+00	5.70E-08
3420	420756.34	3734907.34	1.47E-07	6.19E-07	2.72E-10	0.00E+00	7.66E-07	2.01E-08	8.46E-08	4.04E-11	0.00E+00	1.05E-07	1.23E-08	3.89E-08	9.39E-12	0.00E+00	5.12E-08
3421	420747.32	3734911.12	1.31E-07	5.53E-07	2.43E-10	0.00E+00	6.84E-07	1.80E-08	7.56E-08	3.61E-11	0.00E+00	9.36E-08	1.10E-08	3.48E-08	8.39E-12	0.00E+00	4.58E-08
3422	421144.85	3734564.13	1.79E-07	7.56E-07	3.32E-10	0.00E+00	9.36E-07	2.46E-08	1.03E-07	4.94E-11	0.00E+00	1.28E-07	1.51E-08	4.75E-08	1.15E-11	0.00E+00	6.26E-08
3423	421140.95	3734573.11	1.92E-07	8.11E-07	3.56E-10	0.00E+00	1.00E-06	2.63E-08	1.11E-07	5.30E-11	0.00E+00	1.37E-07	1.62E-08	5.10E-08	1.23E-11	0.00E+00	6.71E-08
3424	421137.06	3734582.1	2.05E-07	8.67E-07	3.80E-10	0.00E+00	1.07E-06	2.81E-08	1.18E-07	5.66E-11	0.00E+00	1.47E-07	1.73E-08	5.45E-08	1.31E-11	0.00E+00	7.17E-08
3425	421133.16	3734591.09	2.18E-07	9.21E-07	4.04E-10	0.00E+00	1.14E-06	2.99E-08	1.26E-07	6.02E-11	0.00E+00	1.56E-07	1.84E-08	5.79E-08	1.40E-11	0.00E+00	7.63E-08
3426	421129.26	3734600.08	2.32E-07	9.78E-07	4.29E-10	0.00E+00	1.21E-06	3.18E-08	1.34E-07	6.39E-11	0.00E+00	1.66E-07	1.95E-08	6.15E-08	1.48E-11	0.00E+00	8.10E-08
3427	421125.37	3734609.06	2.45E-07	1.04E-06	4.55E-10	0.00E+00	1.28E-06	3.36E-08	1.42E-07	6.77E-11	0.00E+00	1.75E-07	2.06E-08	6.51E-08	1.57E-11	0.00E+00	8.58E-08
3428	421121.47	3734618.05	2.59E-07	1.09E-06	4.79E-10	0.00E+00	1.35E-06	3.54E-08	1.49E-07	7.14E-11	0.00E+00	1.85E-07	2.18E-08	6.86E-08	1.66E-11	0.00E+00	9.04E-08
3429	421117.57	3734627.04	2.71E-07	1.15E-06	5.03E-10	0.00E+00	1.42E-06	3.72E-08	1.57E-07	7.49E-11	0.00E+00	1.94E-07	2.28E-08	7.20E-08	1.74E-11	0.00E+00	9.49E-08
3430	421090.3	3734689.94	3.49E-07	1.48E-06	6.47E-10	0.00E+00	1.83E-06	4.79E-08	2.02E-07	9.64E-11	0.00E+00	2.50E-07	2.94E-08	9.27E-08	2.24E-11	0.00E+00	1.22E-07
3431	421086.4	3734698.93	3.58E-07	1.51E-06	6.64E-10	0.00E+00	1.87E-06	4.91E-08	2.07E-07	9.89E-11	0.00E+00	2.56E-07	3.02E-08	9.51E-08	2.30E-11	0.00E+00	1.25E-07
3432	421082.51	3734707.92	3.68E-07	1.55E-06	6.81E-10	0.00E+00	1.92E-06	5.04E-08	2.12E-07	1.01E-10	0.00E+00	2.63E-07	3.09E-08	9.75E-08	2.35E-11	0.00E+00	1.28E-07
3433	421078.61	3734716.9	3.76E-07	1.59E-06	6.97E-10	0.00E+00	1.96E-06	5.15E-08	2.17E-07	1.04E-10	0.00E+00	2.69E-07	3.16E-08	9.98E-08	2.41E-11	0.00E+00	1.31E-07
3434	421074.71	3734725.89	3.84E-07	1.62E-06	7.11E-10	0.00E+00	2.00E-06	5.26E-08	2.22E-07	1.06E-10	0.00E+00	2.74E-07	3.23E-08	1.02E-07	2.46E-11	0.00E+00	1.34E-07
3435	421063.03	3734752.85	3.99E-07	1.69E-06	7.39E-10	0.00E+00	2.08E-06	5.47E-08	2.30E-07	1.10E-10	0.00E+00	2.85E-07	3.36E-08	1.06E-07	2.56E-11	0.00E+00	1.39E-07
3436	421059.13	3734761.84	4.01E-07	1.69E-06	7.43E-10	0.00E+00	2.10E-06	5.50E-08	2.32E-07	1.11E-10	0.00E+00	2.87E-07	3.38E-08	1.06E-07	2.57E-11	0.00E+00	1.40E-07
3437	421055.23	3734770.82	3.99E-07	1.69E-06	7.40E-10	0.00E+00	2.09E-06	5.47E-08	2.31E-07	1.10E-10	0.00E+00	2.85E-07	3.36E-08	1.06E-07	2.56E-11	0.00E+00	1.40E-07
3438	421051.34	3734779.81	4.00E-07	1.69E-06	7.40E-10	0.00E+00	2.09E-06	5.48E-08	2.31E-07	1.10E-10	0.00E+00	2.86E-07	3.36E-08	1.06E-07	2.56E-11	0.00E+00	1.40E-07
3439	421047.44	3734788.8	3.99E-07	1.68E-06	7.39E-10	0.00E+00	2.08E-06	5.47E-08	2.30E-07	1.10E-10	0.00E+00	2.85E-07	3.36E-08	1.06E-07	2.55E-11	0.00E+00	1.39E-07
3440	421043.54	3734797.78	3.97E-07	1.68E-06	7.35E-10	0.00E+00	2.07E-06	5.44E-08	2.29E-07	1.10E-10	0.00E+00	2.84E-07	3.34E-08	1.05E-07	2.54E-11	0.00E+00	1.39E-07
3441	421039.65	3734806.77	3.94E-07	1.66E-06	7.30E-10	0.00E+00	2.06E-06	5.40E-08	2.28E-07	1.09E-10	0.00E+00	2.82E-07	3.32E-08	1.05E-07	2.52E-11	0.00E+00	1.38E-07
3442	421035.75	3734815.76	3.91E-07	1.65E-06	7.24E-10	0.00E+00	2.04E-06	5.35E-08	2.26E-07	1.08E-10	0.00E+00	2.79E-07	3.29E-08	1.04E-07	2.50E-11	0.00E+00	1.37E-07
3443	421031.86	3734824.74	3.86E-07	1.63E-06	7.15E-10	0.00E+00	2.02E-06	5.29E-08	2.23E-07	1.07E-10	0.00E+00	2.76E-07	3.25E-08	1.02E-07	2.47E-11	0.00E+00	1.35E-07
3444	421018.93	3734837.52	3.87E-07	1.63E-06	7.17E-10	0.00E+00	2.02E-06	5.31E-08	2.24E-07	1.07E-10	0.00E+00	2.77E-07	3.26E-08	1.03E-07	2.48E-11	0.00E+00	1.35E-07
3445	420991.82	3734848.88	4.04E-07	1.71E-06	7.48E-10	0.00E+00	2.11E-06	5.54E-08	2.33E-07	1.11E-10	0.00E+00	2.89E-07	3.40E-08	1.07E-07	2.59E-11	0.00E+00	1.41E-07
3446	420982.79	3734852.66	4.08E-07	1.72E-06	7.56E-10	0.00E+00	2.13E-06	5.59E-08	2.36E-07	1.13E-10	0.00E+00	2.92E-07	3.43E-08	1.08E-07	2.61E-11	0.00E+00	1.43E-07
3447	420973.76	3734856.45	4.11E-07	1.74E-06	7.62E-10	0.00E+00	2.15E-06	5.63E-08	2.37E-07	1.13E-10	0.00E+00	2.94E-07	3.46E-08	1.09E-07	2.63E-11	0.00E+00	1.44E-07
3448	420964.72	3734860.23	4.12E-07	1.74E-06	7.64E-10	0.00E+00	2.15E-06	5.65E-08	2.38E-07	1.14E-10	0.00E+00	2.95E-07	3.47E-08	1.09E-07	2.64E-11	0.00E+00	1.44E-07
3449	420955.69	3734864.02	4.12E-07	1.74E-06	7.63E-10	0.00E+00	2.15E-06	5.65E-08	2.38E-07	1.14E-10	0.00E+00	2.94E-07	3.47E-08	1.09E-07	2.64E-11	0.00E+00	1.44E-07
3450	420946.66	3734867.81	4.10E-07	1.73E-06	7.59E-10	0.00E+00	2.14E-06	5.62E-08	2.37E-07	1.13E-10	0.00E+00	2.93E-07	3.45E-08	1.09E-07	2.62E-11	0.00E+00	1.43E-07
3451	420937.62	3734871.59	4.06E-07	1.71E-06	7.51E-10	0.00E+00	2.12E-06	5.56E-08	2.34E-07	1.12E-10	0.00E+00	2.90E-07	3.41E-08	1.08E-07	2.60E-11	0.00E+00	1.42E-07
3452	420928.59	3734875.38	3.99E-07	1.69E-06	7.40E-10	0.00E+00	2.09E-06	5.48E-08	2.31E-07	1.10E-10	0.00E+00	2.86E-07	3.36E-08	1.06E-07	2.56E-11	0.00E+00	1.40E-07
3453	420919.56	3734879.17	3.91E-07	1.65E-06	7.24E-10	0.00E+00	2.04E-06	5.36E-08	2.26E-07	1.08E-10	0.00E+00	2.79E-07	3.29E-08	1.04E-07	2.50E-11	0.00E+00	1.37E-07
3454	420910.52	3734882.95	3.81E-07	1.61E-06	7.05E-10	0.00E+00	1.99E-06	5.22E-08	2.20E-07	1.05E-10	0.00E+00	2.72E-07	3.20E-08	1.01E-07	2.44E-11	0.00E+00	1.33E-07
3455	420901.49	3734886.74	3.68E-07	1.56E-06	6.83E-10	0.00E+00	1.92E-06	5.05E-08	2.13E-07	1.02E-10	0.00E+00	2.63E-07	3.10E-08	9.78E-08	2.36E-11	0.00E+00	1.29E-07
3456	420892.46	3734890.53	3.55E-07	1.50E-06	6.57E-10	0.00E+00	1.85E-06	4.86E-08	2.05E-07	9.79E-11	0.00E+00	2.53E-07	2.98E-08	9.41E-08	2.27E-11	0.00E+00	1.24E-07
3457	420883.42	3734894.31	3.39E-07	1.43E-06	6.29E-10	0.00E+00	1.77E-06	4.65E-08	1.96E-07	9.36E-11	0.00E+00	2.43E-07	2.85E-08	9.00E-08	2.17E-11	0.00E+00	1.19E-07
3458	420874.39	3734898.1	3.23E-07	1.36E-06	5.98E-10	0.00E+00	1.69E-06	4.42E-08	1.86E-07	8.90E-11	0.00E+00	2.31E-07	2.71E-08	8.56E-08	2.07E-11	0.00E+00	1.13E-07
3459	420865.35	3734901.89	3.05E-07	1.29E-06	5.65E-10	0.00E+00	1.59E-06	4.18E-08	1.76E-07	8.42E-11	0.00E+00	2.18E-07	2.57E-08	8.10E-08	1.95E-11	0.00E+00	1.07E-07
3460	420856.32	3734905.67	2.87E-07	1.21E-06	5.32E-10	0.00E+00	1.50E-06	3.94E-08	1.66E-07	7.92E-11	0.00E+00	2.05E-07	2.42E-08	7.62E-08	1.84E-11	0.00E+00	1.00E-07
3461	420847.29	3734909.46	2.69E-07	1.14E-06	4.98E-10	0.00E+00	1.40E-06	3.69E-08	1.55E-07	7.42E-11	0.00E+00	1.92E-07	2.26E-08	7.13E-08	1.72E-11	0.00E+00	9.40E-08
3462	420838.25	3734913.24	2.51E-07	1.06E-06	4.64E-10	0.00E+00	1.31E-06	3.43E-08	1.45E-07	6.91E-11	0.00E+00	1.79E-07	2.11E-08	6.65E-08	1.60E-11	0.00E+00	8.76E-08
3463	420829.22	3734917.03	2.32E-07	9.81E-07	4.31E-10	0.00E+00	1.21E-06	3.19E-08	1.34E-07	6.41E-11	0.00E+00	1.66E-07	1.96E-08	6.17E-08	1.49E-11	0.00E+00	8.12E-08
3464	420820.19	3734920.82	2.15E-07	9.06E-07	3.98E-10	0.00E+00	1.12E-06	2.94E-08	1.24E-07	5.92E-11	0.00E+00	1.53E-07	1.80E-08	5.69E-08	1.37E-11	0.00E+00	7.50E-08
3465	420811.15	3734924.6	1.97E-07	8.33E-07	3.65E-10	0.00E+00	1.03E-06	2.70E-08	1.14E-07	5.44E-11	0.00E+00	1.41E-07	1.66E-08	5.23E-08	1.26E-11	0.00E+00	6.89E-08
3466	420802.12	3734928.39	1.81E-07	7.65E-07	3.36E-10	0.00E+00	9.46E-07	2.48E-08	1.05E-07	5.00E-11	0.00E+00	1.29E-07	1.52E-08	4.81E-08	1.16E-11	0.00E+00	6.33E-08
3467	420793.09	3734932.18	1.66E-07	7.01E-07	3.07E-10	0.00E+00	8.67E-07	2.27E-08	9.58E-08	4.58E-11	0.00E+00	1.19E-07	1.40E-08	4.40E-08	1.06E-11	0.00E+00	5.80E-08
3468	420784.05	3734935.96	1.52E-07	6.40E-07	2.81E-10	0.00E+00	7.92E-07	2.08E-08	8.75E-08	4.18E-11	0.00E+00	1.08E-07	1.28E-08	4.02E-08	9.71E-12	0.00E+00	5.30E-08
3469	420775.02	3734939.75	1.38E-07	5.82E-07	2.55E-10	0.00E+00	7.20E-07	1.89E-08	7.96E-08	3.81E-11	0.00E+00	9.86E-08	1.16E-08	3.66E-08	8.83E-12	0.00E+00	4.82E-08
3470	420765.99	3734943.54	1.25E-07	5.27E-07	2.31E-10	0.00E+00	6.52E-07	1.71E-08	7.21E-08	3.45E-11	0.00E+00	8.93E-08	1.05E-08	3.31E-08	8.00E-12	0.00E+00	4.37E-08
3471	420756.95	3734947.32	1.13E-07	4.77E-07	2.09E-10	0.00E+00	5.90E-07	1.55E-08	6.52E-08	3.12E-11	0.00E+00	8.07E-08	9.50E-09	3.00E-08	7.23E-12	0.00E+00	3.95E-08
3472	420747.92	3734951.11	1.02E-07	4.29E-07	1.88E-10	0.00E+00	5.31E-07	1.39E-08	5.87E-08	2.81E-11	0.00E+00	7.27E-08	8.56E-09	2.70E-08	6.52E-12	0.00E+00	3.56E-08
3473	421152.91	3734536.17	1.48E-07	6.25E-07	2.74E-10	0.00E+00	7.74E-07	2.03E-08	8.55E-08	4.09E-11	0.00E+00	1.06E-07	1.25E-08	3.93E-08	9.49E-12	0.00E+00	5.18E-08
3474	421153.17	3734526.19	1.40E-07	5.93E-07	2.60E-10	0.00E+00	7.33E-07	1.92E-08	8.11E-08	3.87E-11	0.00E+00	1.00E-07	1.18E-08	3.73E-08	8.99E-12	0.00E+00	4.91E-08
3475	421153.44	3734516.2	1.33E-07	5.60E-07	2.46E-10	0.00E+00	6.93E-07	1.82E-08	7.66E-08	3.66E-11	0.00E+00	9.49E-08	1.12E-08	3.52E-08	8.50E-12	0.00E+00	4.64E-08
3476	421184.82	3734565.22	1.41E-07	5.95E-07	2.61E-10	0.00E+00	7.36E-07	1.93E-08	8.14E-08	3.89E-11	0.00E+00	1.01E-07	1.19E-08	3.74E-08	9.03E-12	0.00E+00	4.93E-08
3477	421180.92	3734574.22	1.50E-07	6.32E-07	2.78E-10	0.00E+00	7.83E-07	2.05E-08	8.65E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.60E-12	0.00E+00	5.24E-08
3478	421177.02	3734583.22	1.59E-07	6.73E-07	2.95E-10	0.00E+00	8.32E-07	2.18E-08	9.20E-08	4.40E-11	0.00E+00	1.14E-07	1.34E-08	4.23E-08	1.02E-11	0.00E+00	5.57E-08
3479	421173.12	3734592.22	1.70E-07	7.16E-07	3.14E-10	0.00E+00	8.86E-07	2.33E-08	9.79E-08	4.68E-11	0.00E+00	1.21E-07	1.43E-08	4.50E-08	1.09E-11	0.00E+00	5.93E-08
3480	421169.22	3734601.22	1.80E-07	7.61E-07	3.34E-10	0.00E+00	9.42E-07	2.47E-08	1.04E-07	4.97E-11	0.00E+00	1.29E-07	1.52E-08	4.78E-08	1.15E-11	0.00E+00	6.30E-08
3481	421165.31	3734610.22	1.91E-07	8.07E-07	3.54E-10	0.00E+00	9.98E-07	2.62E-08	1.10E-07	5.27E-11	0.00E+00	1.37E-07	1.61E-08	5.07E-08	1.22E-11	0.00E+00	6.68E-08
3482	421161.41	3734619.21	2.02E-07	8.51E-07	3.73E-10	0.00E+00	1.05E-06	2.76E-08	1.16E-07	5.56E-11	0.00E+00	1.44E-07	1.70E-08	5.35E-08	1.29E-11	0.00E+00	7.05E-08
3483	421157.51	3734628.21	2.12E-07	8.96E-07	3.93E-10	0.00E+00	1.11E-06	2.91E-08	1.22E-07	5.85E-11	0.00E+00	1.52E-07	1.78E-08	5.63E-08	1.36E-11	0.00E+00	7.41E-08
3484	421153.61	3734637.21	2.23E-07	9.40E-07	4.12E-10	0.00E+00	1.16E-06	3.05E-08	1.29E-07	6.14E-11	0.00E+00	1.59E-07	1.87E-08	5.91E-08	1.43E-11	0.00E+00	7.78E-08
3485	421149.71	3734646.21	2.33E-07	9.83E-07	4.31E-10	0.00E+00	1.22E-06	3.19E-08	1.34E-07	6.42E-11	0.00E+00	1.66E-07	1.96E-08	6.18E-08	1.49E-11	0.00E+00	8.14E-08
3486	421145.81	3734655.21	2.42E-07	1.02E-06	4.49E-10	0.00E+00	1.27E-06	3.32E-08	1.40E-07	6.69E-11	0.00E+00	1.73E-07	2.04E-08	6.43E-08	1.55E-11	0.00E+00	8.47E-08
3487	421141.91	3734664.21	2.52E-07	1.06E-06	4.66E-10	0.00E+00	1.31E-06	3.45E-08	1.45E-07	6.95E-11	0.00E+00	1.80E-07	2.12E-08	6.68E-08	1.61E-11	0.00E+00	8.80E-08
3488	421138	3734673.21	2.61E-07	1.10E-06	4.83E-10	0.00E+00	1.36E-06	3.58E-08	1.51E-07	7.20E-11	0.00E+00	1.87E-07	2.20E-08	6.92E-08	1.67E-11	0.00E+00	9.12E-08
3489	421134.1	3734682.21	2.70E-07	1.14E-06	5.01E-10	0.00E+00	1.41E-06	3.71E-08	1.56E-07	7.46E-11	0.00E+00	1.93E-07	2.28E-08	7.18E-08	1.73E-11	0.00E+00	9.45E-08
3490	421130.2	3734691.21	2.79E-07	1.18E-06	5.18E-10	0.00E+00	1.46E-06	3.83E-08	1.61E-07	7.71E-11	0.00E+00	2.00E-07	2.35E-08	7.41E-08	1.79E-11	0.00E+00	9.77E-08
3491	421126.3	3734700.2	2.88E-07	1.21E-06	5.33E-10	0.00E+00	1.50E-06	3.94E-08	1.66E-07	7.94E-11	0.00E+00	2.06E-07	2.42E-08	7.63E-08	1.84E-11	0.00E+00	1.01E-07
3492	421122.4	3734709.2	2.96E-07	1.25E-06	5.48E-10	0.00E+00	1.54E-06	4.05E-08	1.71E-07	8.16E-11	0.00E+00	2.11E-07	2.49E-08	7.85E-08	1.89E-11	0.00E+00	1.03E-07

3493	421118.5	3734718.2	3.03E-07	1.28E-06	5.62E-10	0.00E+00	1.58E-06	4.15E-08	1.75E-07	8.36E-11	0.00E+00	2.17E-07	2.55E-08	8.04E-08	1.94E-11	0.00E+00	1.06E-07
3494	421091.18	3734781.2	3.35E-07	1.42E-06	6.21E-10	0.00E+00	1.75E-06	4.59E-08	1.93E-07	9.25E-11	0.00E+00	2.40E-07	2.82E-08	8.89E-08	2.15E-11	0.00E+00	1.17E-07
3495	421087.28	3734790.19	3.36E-07	1.42E-06	6.23E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.28E-11	0.00E+00	2.40E-07	2.83E-08	8.93E-08	2.16E-11	0.00E+00	1.18E-07
3496	421083.38	3734799.19	3.36E-07	1.42E-06	6.23E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.28E-11	0.00E+00	2.40E-07	2.83E-08	8.92E-08	2.15E-11	0.00E+00	1.18E-07
3497	421079.48	3734808.19	3.35E-07	1.42E-06	6.22E-10	0.00E+00	1.75E-06	4.60E-08	1.94E-07	9.26E-11	0.00E+00	2.40E-07	2.82E-08	8.90E-08	2.15E-11	0.00E+00	1.17E-07
3498	421075.58	3734817.19	3.34E-07	1.41E-06	6.19E-10	0.00E+00	1.75E-06	4.58E-08	1.93E-07	9.22E-11	0.00E+00	2.39E-07	2.81E-08	8.87E-08	2.14E-11	0.00E+00	1.17E-07
3499	421071.68	3734826.19	3.32E-07	1.40E-06	6.16E-10	0.00E+00	1.74E-06	4.55E-08	1.92E-07	9.17E-11	0.00E+00	2.37E-07	2.79E-08	8.82E-08	2.13E-11	0.00E+00	1.16E-07
3500	421067.78	3734835.19	3.30E-07	1.39E-06	6.11E-10	0.00E+00	1.72E-06	4.52E-08	1.90E-07	9.09E-11	0.00E+00	2.36E-07	2.77E-08	8.74E-08	2.11E-11	0.00E+00	1.15E-07
3501	421063.87	3734844.19	3.26E-07	1.38E-06	6.05E-10	0.00E+00	1.71E-06	4.48E-08	1.89E-07	9.01E-11	0.00E+00	2.33E-07	2.75E-08	8.66E-08	2.09E-11	0.00E+00	1.14E-07
3502	421059.97	3734853.19	3.23E-07	1.36E-06	5.99E-10	0.00E+00	1.69E-06	4.43E-08	1.87E-07	8.92E-11	0.00E+00	2.31E-07	2.72E-08	8.58E-08	2.07E-11	0.00E+00	1.13E-07
3503	421047.02	3734865.98	3.27E-07	1.38E-06	6.05E-10	0.00E+00	1.71E-06	4.48E-08	1.89E-07	9.01E-11	0.00E+00	2.33E-07	2.75E-08	8.67E-08	2.09E-11	0.00E+00	1.14E-07
3504	421037.98	3734869.77	3.32E-07	1.40E-06	6.15E-10	0.00E+00	1.73E-06	4.55E-08	1.92E-07	9.15E-11	0.00E+00	2.37E-07	2.79E-08	8.80E-08	2.13E-11	0.00E+00	1.16E-07
3505	421028.93	3734873.56	3.36E-07	1.42E-06	6.23E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.28E-11	0.00E+00	2.40E-07	2.83E-08	8.93E-08	2.16E-11	0.00E+00	1.18E-07
3506	421019.89	3734877.35	3.41E-07	1.44E-06	6.31E-10	0.00E+00	1.78E-06	4.67E-08	1.97E-07	9.40E-11	0.00E+00	2.43E-07	2.86E-08	9.04E-08	2.18E-11	0.00E+00	1.19E-07
3507	420992.75	3734888.73	3.47E-07	1.47E-06	6.44E-10	0.00E+00	1.82E-06	4.76E-08	2.01E-07	9.59E-11	0.00E+00	2.48E-07	2.92E-08	9.22E-08	2.23E-11	0.00E+00	1.21E-07
3508	420983.7	3734892.52	3.48E-07	1.47E-06	6.45E-10	0.00E+00	1.82E-06	4.77E-08	2.01E-07	9.60E-11	0.00E+00	2.49E-07	2.93E-08	9.23E-08	2.23E-11	0.00E+00	1.22E-07
3509	420974.66	3734896.31	3.47E-07	1.47E-06	6.44E-10	0.00E+00	1.81E-06	4.76E-08	2.01E-07	9.58E-11	0.00E+00	2.48E-07	2.92E-08	9.22E-08	2.22E-11	0.00E+00	1.21E-07
3510	420965.61	3734900.1	3.45E-07	1.46E-06	6.40E-10	0.00E+00	1.80E-06	4.73E-08	1.99E-07	9.53E-11	0.00E+00	2.47E-07	2.91E-08	9.17E-08	2.21E-11	0.00E+00	1.21E-07
3511	420956.57	3734903.89	3.42E-07	1.44E-06	6.33E-10	0.00E+00	1.79E-06	4.69E-08	1.97E-07	9.43E-11	0.00E+00	2.44E-07	2.88E-08	9.07E-08	2.19E-11	0.00E+00	1.19E-07
3512	420947.52	3734907.68	3.37E-07	1.42E-06	6.24E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.29E-11	0.00E+00	2.41E-07	2.83E-08	8.93E-08	2.16E-11	0.00E+00	1.18E-07
3513	420938.47	3734911.48	3.30E-07	1.39E-06	6.11E-10	0.00E+00	1.72E-06	4.52E-08	1.90E-07	9.10E-11	0.00E+00	2.36E-07	2.77E-08	8.75E-08	2.11E-11	0.00E+00	1.15E-07
3514	420929.43	3734915.27	3.22E-07	1.36E-06	5.96E-10	0.00E+00	1.68E-06	4.41E-08	1.86E-07	8.88E-11	0.00E+00	2.30E-07	2.71E-08	8.54E-08	2.06E-11	0.00E+00	1.12E-07
3515	420920.38	3734919.06	3.12E-07	1.32E-06	5.78E-10	0.00E+00	1.63E-06	4.28E-08	1.80E-07	8.62E-11	0.00E+00	2.23E-07	2.63E-08	8.29E-08	2.00E-11	0.00E+00	1.09E-07
3516	420911.34	3734922.85	3.01E-07	1.27E-06	5.59E-10	0.00E+00	1.57E-06	4.13E-08	1.74E-07	8.32E-11	0.00E+00	2.15E-07	2.54E-08	8.00E-08	1.93E-11	0.00E+00	1.05E-07
3517	420902.29	3734926.64	2.90E-07	1.22E-06	5.36E-10	0.00E+00	1.51E-06	3.97E-08	1.67E-07	7.99E-11	0.00E+00	2.07E-07	2.44E-08	7.68E-08	1.85E-11	0.00E+00	1.01E-07
3518	420893.25	3734930.43	2.77E-07	1.17E-06	5.13E-10	0.00E+00	1.45E-06	3.79E-08	1.60E-07	7.63E-11	0.00E+00	1.98E-07	2.33E-08	7.34E-08	1.77E-11	0.00E+00	9.67E-08
3519	420884.2	3734934.23	2.63E-07	1.11E-06	4.88E-10	0.00E+00	1.38E-06	3.61E-08	1.52E-07	7.26E-11	0.00E+00	1.88E-07	2.21E-08	6.99E-08	1.69E-11	0.00E+00	9.20E-08
3520	420875.15	3734938.02	2.49E-07	1.05E-06	4.62E-10	0.00E+00	1.30E-06	3.42E-08	1.44E-07	6.88E-11	0.00E+00	1.78E-07	2.10E-08	6.62E-08	1.60E-11	0.00E+00	8.72E-08
3521	420866.11	3734941.81	2.35E-07	9.93E-07	4.36E-10	0.00E+00	1.23E-06	3.22E-08	1.36E-07	6.49E-11	0.00E+00	1.68E-07	1.98E-08	6.24E-08	1.51E-11	0.00E+00	8.22E-08
3522	420857.06	3734945.6	2.21E-07	9.33E-07	4.09E-10	0.00E+00	1.15E-06	3.03E-08	1.28E-07	6.09E-11	0.00E+00	1.58E-07	1.86E-08	5.86E-08	1.41E-11	0.00E+00	7.72E-08
3523	420848.02	3734949.39	2.06E-07	8.72E-07	3.83E-10	0.00E+00	1.08E-06	2.83E-08	1.19E-07	5.70E-11	0.00E+00	1.48E-07	1.74E-08	5.48E-08	1.32E-11	0.00E+00	7.22E-08
3524	420838.97	3734953.18	1.92E-07	8.12E-07	3.56E-10	0.00E+00	1.00E-06	2.63E-08	1.11E-07	5.30E-11	0.00E+00	1.37E-07	1.62E-08	5.10E-08	1.23E-11	0.00E+00	6.72E-08
3525	420829.92	3734956.98	1.79E-07	7.54E-07	3.31E-10	0.00E+00	9.33E-07	2.45E-08	1.03E-07	4.93E-11	0.00E+00	1.28E-07	1.50E-08	4.74E-08	1.14E-11	0.00E+00	6.24E-08
3526	420820.88	3734960.77	1.65E-07	6.98E-07	3.06E-10	0.00E+00	8.64E-07	2.27E-08	9.55E-08	4.56E-11	0.00E+00	1.18E-07	1.39E-08	4.39E-08	1.06E-11	0.00E+00	5.78E-08
3527	420811.83	3734964.56	1.53E-07	6.45E-07	2.83E-10	0.00E+00	7.98E-07	2.10E-08	8.82E-08	4.22E-11	0.00E+00	1.09E-07	1.29E-08	4.06E-08	9.79E-12	0.00E+00	5.34E-08
3528	420802.79	3734968.35	1.41E-07	5.94E-07	2.61E-10	0.00E+00	7.35E-07	1.93E-08	8.12E-08	3.88E-11	0.00E+00	1.01E-07	1.18E-08	3.73E-08	9.01E-12	0.00E+00	4.92E-08
3529	420793.74	3734972.14	1.29E-07	5.44E-07	2.39E-10	0.00E+00	6.73E-07	1.77E-08	7.44E-08	3.56E-11	0.00E+00	9.21E-08	1.08E-08	3.42E-08	8.25E-12	0.00E+00	4.50E-08
3530	420784.69	3734975.93	1.18E-07	4.97E-07	2.18E-10	0.00E+00	6.15E-07	1.61E-08	6.80E-08	3.25E-11	0.00E+00	8.41E-08	9.90E-09	3.12E-08	7.54E-12	0.00E+00	4.11E-08
3531	420775.65	3734979.73	1.07E-07	4.53E-07	1.99E-10	0.00E+00	5.61E-07	1.47E-08	6.20E-08	2.96E-11	0.00E+00	7.67E-08	9.03E-09	2.85E-08	6.88E-12	0.00E+00	3.75E-08
3532	420766.6	3734983.52	9.78E-08	4.13E-07	1.81E-10	0.00E+00	5.11E-07	1.34E-08	5.65E-08	2.70E-11	0.00E+00	6.99E-08	8.23E-09	2.59E-08	6.26E-12	0.00E+00	3.42E-08
3533	420757.56	3734987.31	8.89E-08	3.75E-07	1.65E-10	0.00E+00	4.65E-07	1.22E-08	5.13E-08	2.45E-11	0.00E+00	6.36E-08	7.48E-09	2.36E-08	5.70E-12	0.00E+00	3.11E-08
3534	420748.51	3734991.1	8.08E-08	3.41E-07	1.50E-10	0.00E+00	4.22E-07	1.11E-08	4.67E-08	2.23E-11	0.00E+00	5.78E-08	6.80E-09	2.14E-08	5.18E-12	0.00E+00	2.83E-08
3535	421192.89	3734537.24	1.18E-07	4.99E-07	2.19E-10	0.00E+00	6.17E-07	1.62E-08	6.82E-08	3.26E-11	0.00E+00	8.44E-08	9.94E-09	3.13E-08	7.57E-12	0.00E+00	4.13E-08
3536	421193.16	3734527.26	1.12E-07	4.74E-07	2.08E-10	0.00E+00	5.86E-07	1.54E-08	6.48E-08	3.10E-11	0.00E+00	8.02E-08	9.44E-09	2.98E-08	7.19E-12	0.00E+00	3.92E-08
3537	421193.43	3734517.27	1.06E-07	4.50E-07	1.97E-10	0.00E+00	5.56E-07	1.46E-08	6.15E-08	2.94E-11	0.00E+00	7.61E-08	8.96E-09	2.83E-08	6.82E-12	0.00E+00	3.72E-08
3538	421213.08	3734593.34	1.37E-07	5.77E-07	2.53E-10	0.00E+00	7.14E-07	1.87E-08	7.89E-08	3.77E-11	0.00E+00	9.77E-08	1.15E-08	3.63E-08	8.76E-12	0.00E+00	4.78E-08
3539	421209.18	3734602.35	1.44E-07	6.10E-07	2.68E-10	0.00E+00	7.55E-07	1.98E-08	8.34E-08	3.99E-11	0.00E+00	1.03E-07	1.22E-08	3.83E-08	9.26E-12	0.00E+00	5.05E-08
3540	421205.27	3734611.36	1.52E-07	6.43E-07	2.82E-10	0.00E+00	7.96E-07	2.09E-08	8.80E-08	4.21E-11	0.00E+00	1.09E-07	1.28E-08	4.04E-08	9.76E-12	0.00E+00	5.33E-08
3541	421201.36	3734620.36	1.60E-07	6.76E-07	2.97E-10	0.00E+00	8.36E-07	2.19E-08	9.24E-08	4.42E-11	0.00E+00	1.14E-07	1.35E-08	4.25E-08	1.03E-11	0.00E+00	5.60E-08
3542	421197.46	3734629.37	1.68E-07	7.10E-07	3.12E-10	0.00E+00	8.78E-07	2.30E-08	9.71E-08	4.64E-11	0.00E+00	1.20E-07	1.41E-08	4.46E-08	1.08E-11	0.00E+00	5.88E-08
3543	421193.55	3734638.38	1.76E-07	7.45E-07	3.27E-10	0.00E+00	9.22E-07	2.42E-08	1.02E-07	4.87E-11	0.00E+00	1.26E-07	1.48E-08	4.68E-08	1.13E-11	0.00E+00	6.17E-08
3544	421189.65	3734647.39	1.85E-07	7.81E-07	3.43E-10	0.00E+00	9.67E-07	2.54E-08	1.07E-07	5.11E-11	0.00E+00	1.32E-07	1.56E-08	4.91E-08	1.19E-11	0.00E+00	6.47E-08
3545	421185.74	3734656.4	1.93E-07	8.17E-07	3.58E-10	0.00E+00	1.01E-06	2.65E-08	1.12E-07	5.34E-11	0.00E+00	1.38E-07	1.63E-08	5.13E-08	1.24E-11	0.00E+00	6.76E-08
3546	421181.83	3734665.41	2.02E-07	8.52E-07	3.74E-10	0.00E+00	1.05E-06	2.76E-08	1.16E-07	5.57E-11	0.00E+00	1.44E-07	1.70E-08	5.35E-08	1.29E-11	0.00E+00	7.05E-08
3547	421177.93	3734674.42	2.10E-07	8.85E-07	3.89E-10	0.00E+00	1.10E-06	2.87E-08	1.21E-07	5.79E-11	0.00E+00	1.50E-07	1.76E-08	5.57E-08	1.34E-11	0.00E+00	7.33E-08
3548	421174.02	3734683.43	2.18E-07	9.19E-07	4.03E-10	0.00E+00	1.14E-06	2.99E-08	1.26E-07	6.01E-11	0.00E+00	1.56E-07	1.83E-08	5.78E-08	1.39E-11	0.00E+00	7.61E-08
3549	421170.11	3734692.44	2.26E-07	9.54E-07	4.18E-10	0.00E+00	1.18E-06	3.10E-08	1.30E-07	6.23E-11	0.00E+00	1.61E-07	1.90E-08	5.99E-08	1.45E-11	0.00E+00	7.89E-08
3550	421166.21	3734701.45	2.33E-07	9.85E-07	4.32E-10	0.00E+00	1.22E-06	3.20E-08	1.35E-07	6.44E-11	0.00E+00	1.67E-07	1.96E-08	6.19E-08	1.50E-11	0.00E+00	8.16E-08
3551	421162.3	3734710.46	2.40E-07	1.01E-06	4.45E-10	0.00E+00	1.26E-06	3.29E-08	1.39E-07	6.63E-11	0.00E+00	1.72E-07	2.02E-08	6.38E-08	1.54E-11	0.00E+00	8.40E-08
3552	421158.4	3734719.47	2.47E-07	1.04E-06	4.57E-10	0.00E+00	1.29E-06	3.38E-08	1.43E-07	6.81E-11	0.00E+00	1.76E-07	2.08E-08	6.55E-08	1.58E-11	0.00E+00	8.63E-08
3553	421154.49	3734728.48	2.53E-07	1.07E-06	4.69E-10	0.00E+00	1.32E-06	3.47E-08	1.46E-07	6.99E-11	0.00E+00	1.81E-07	2.13E-08	6.72E-08	1.62E-11	0.00E+00	8.86E-08
3554	421150.58	3734737.48	2.59E-07	1.09E-06	4.80E-10	0.00E+00	1.35E-06	3.55E-08	1.49E-07	7.14E-11	0.00E+00	1.85E-07	2.18E-08	6.87E-08	1.66E-11	0.00E+00	9.05E-08
3555	421146.68	3734746.49	2.64E-07	1.12E-06	4.89E-10	0.00E+00	1.38E-06	3.62E-08	1.52E-07	7.29E-11	0.00E+00	1.89E-07	2.22E-08	7.01E-08	1.69E-11	0.00E+00	9.23E-08
3556	421142.77	3734755.5	2.69E-07	1.14E-06	4.98E-10	0.00E+00	1.40E-06	3.69E-08	1.55E-07	7.42E-11	0.00E+00	1.92E-07	2.26E-08	7.14E-08	1.72E-11	0.00E+00	9.40E-08
3557	421138.87	3734764.51	2.73E-07	1.15E-06	5.06E-10	0.00E+00	1.43E-06	3.74E-08	1.58E-07	7.54E-11	0.00E+00	1.95E-07	2.30E-08	7.25E-08	1.75E-11	0.00E+00	9.55E-08
3558	421134.96	3734773.52	2.77E-07	1.17E-06	5.13E-10	0.00E+00	1.45E-06	3.79E-08	1.60E-07	7.63E-11	0.00E+00	1.98E-07	2.33E-08	7.34E-08	1.77E-11	0.00E+00	9.67E-08
3559	421131.05	3734782.53	2.80E-07	1.18E-06	5.18E-10	0.00E+00	1.46E-06	3.83E-08	1.61E-07	7.72E-11	0.00E+00	2.00E-07	2.35E-08	7.42E-08	1.79E-11	0.00E+00	9.77E-08
3560	421127.15	3734791.54	2.82E-07	1.19E-06	5.22E-10	0.00E+00	1.47E-06	3.87E-08	1.63E-07	7.78E-11	0.00E+00	2.02E-07	2.37E-08	7.48E-08	1.81E-11	0.00E+00	9.86E-08
3561	421091.99	3734872.62	2.72E-07	1.15E-06	5.04E-10	0.00E+00	1.42E-06	3.73E-08	1.57E-07	7.50E-11	0.00E+00	1.94E-07	2.29E-08	7.21E-08	1.74E-11	0.00E+00	9.50E-08
3562	421088.09	3734881.63	2.70E-07	1.14E-06	5.00E-10	0.00E+00	1.41E-06	3.70E-08	1.56E-07	7.44E-11	0.00E+00	1.93E-07	2.27E-08	7.16E-08	1.73E-11	0.00E+00	9.43E-08
3563	421075.13	3734894.44	2.74E-07	1.16E-06	5.08E-10	0.00E+00	1.43E-06	3.76E-08	1.58E-07	7.57E-11	0.00E+00	1.96E-07	2.31E-08	7.28E-08	1.76E-11	0.00E+00	9.59E-08
3564	421066.07	3734898.23	2.80E-07	1.18E-06	5.19E-10	0.00E+00	1.46E-06	3.84E-08	1.62E-07	7.72E-11	0.00E+00	2.00E-07	2.35E-08	7.43E-08	1.79E-11	0.00E+00	9.78E-08
3565	421057.01	3734902.03	2.85E-07	1.20E-06	5.28E-10	0.00E+00	1.49E-06	3.90E-08	1.64E-07	7.86E-11	0.00E+00	2.04E-07	2.40E-08	7.56E-08	1.82E-11	0.00E+00	9.96E-08
3566	421047.96	3734905.83	2.89E-07	1.22E-06	5.36E-10	0.00E+00	1.51E-06	3.96E-08	1.67E-07	7.98E-11	0.00E+00	2.07E-07	2.43E-08	7.67E-08	1.85E-11	0.00E+00	1.01E-07
3567	421038.9	3734909.62	2.93E-07	1.24E-06	5.42E-10	0.00E+00	1.53E-06	4.01E-08	1.69E-07	8.07E-11	0.00E+00	2.09E-07	2.46E-08	7.76E-08	1.87E-11	0.00E+00	1.02E-07
3568	421029.84	3734913.42	2.95E-07	1.25E-06	5.47E-10	0.00E+00	1.54E-06	4.05E-08	1.70E-07	8.15E-11	0.00E+00	2.11E-07	2.48E-08	7.83E-08	1.89E-11	0.00E+00	1.03E-07
3569	421020.79	3734917.21	2.97E-07	1.25E-06	5.50E-10	0.00E+00	1.55E-06	4.07E-08	1.71E-07	8.20E-11	0.00E+00	2.12E-07	2.50E-08	7.88E-08	1.90E-11	0.00E+00	1.04E-07
3570	420993.62	3734928.6	2.96E-07	1.25E-06	5.48E-10	0.00E+00	1.55E-06	4.05E-08	1.71E-07	8.16E-11	0.00E+00	2.11E-07	2.49E-08	7.85E-08	1.89E-11	0.00E+00	1.03E-07
3571	420984.56	3734932.4	2.94E-07	1.24E-06	5.44E-10	0.00E+00	1.53E-06	4.03E-08	1.70E-07	8.10E-11	0.00E+00	2.10E-07	2.47E-08	7.79E-08	1.88E-11	0.00E+00	1.03E-07
3572	420975.51	3734936.19	2.91E-07	1.23E-06	5.39E-10	0.00E+00	1.52E-06	3.99E-08	1.68E-07	8.02E-11	0.00E+00	2.08E-07	2.45E-08	7.72E-08	1.86E-11	0.00E+00	1.02E-07
3573	420966.45	3734939.99	2.87E-07	1.21E-06	5.31E-10	0.00E+00	1.50E-06	3.93E-08	1.66E-07	7.91E-11	0.00E+00	2.05E-07	2.41E-08	7.61E-08	1.84E-11	0.00E+00	1.00E-07
3574	420957.39	3734943.79	2.82E-07	1.19E-06	5.22E-10	0.00E+00	1.47E-06	3.86E-08	1.63E-07	7.77E-11	0.00E+00	2.01E-07	2.37E-08	7.47E-08	1.80E-11	0.00E+00	9.84E-08
3575	420948.34	3734947.58	2.75E-07	1.16E-06	5.09E-10	0.00E+00	1.44E-06	3.77E-08	1.59E-07	7.59E-11	0.00E+00	1.97E-07	2.31E-08	7.30E-08	1.76E-11	0.00E+00	9.61E-08
3576	420939.28	3734951.38	2.67E-07	1.13E-06	4.95E-10	0.00E+00	1.40E-06	3.67E-08	1.54E-07	7.38E-11	0.00E+00	1.91E-07	2.25E-08	7.10E-08	1.71E-11	0.00E+00	9.35E-08
3577	420930.23	3734955.17	2.59E-07	1.09E-06	4.80E-10	0.00E+00	1.35E-06	3.55E-08	1.50E-07	7.15E-11	0.00E+00	1.85E-07	2.18E-08	6.87E-08	1.66E-11	0.00E+00	9.05E-08
3578	420921.17	3734958.97	2.49E-07	1.05E-06	4.62E-10	0.00E+00	1.30E-06	3.42E-08	1.44E-07	6.88E-11	0.00E+00	1.78E-07	2.10E-08	6.62E-08	1.60E-11	0.00E+00	8.72E-08
3579	420912.11	3734962.76	2.39E-07	1.01E-06	4.43E-10	0.00E+00	1.25E-06	3.28E-08	1.38E-07	6.60E-11	0.00E+00	1.71E-07	2.01E-08	6.34E-08	1.53E-11	0.00E+00	8.36E-08
3580	420903.06	3734966.56	2.28E-07	9.63E-07	4.23E-10	0.00E+00	1.19E-06	3.13E-08	1.32E-07	6.29E-11	0.00E+00	1.63E-07	1.92E-08	6.05E-08	1.46E-11	0.00E+00	7.97E-08
3581	420894	3734970.36	2.17E-07	9.17E-07	4.02E-10	0.00E+00	1.13E-06	2.98E-08	1.25E-07	5.99E-11	0.00E+00	1.55E-07	1.83E-08	5.76E-08	1.39E-11	0.00E+00	7.59E-08
3582	420884.95	3734974.15	2.06E-07	8.72E-07	3.83E-10	0.00E+00	1.08E-06	2.83E-08	1.19E-07	5.70E-11	0.00E+00	1.48E-07	1.74E-08	5.48E-08	1.32E-11	0.00E+00	7.22E-08
3583	420875.89	3734977.95	1.95E-07	8.25E-07	3.62E-10	0.00E+00	1.02E-06	2.68E-08	1.13E-07	5.39E-11	0.00E+00	1.40E-07	1.64E-08	5.19E-08	1.25E-11	0.00E+00	6.83E-08
3584	420866.83	3734981.74	1.84E-07	7.78E-07	3.41E-10	0.00E+00	9.62E-07	2.52E-08	1.06E-07	5.08E-11	0.00E+00	1.32E-07	1.55E-08	4.89E-08	1.18E-11	0.00E+00	6.44E-08

3585	420857.78	3734985.54	1.73E-07	7.29E-07	3.20E-10	0.00E+00	9.02E-07	2.37E-08	9.97E-08	4.76E-11	0.00E+00	1.23E-07	1.45E-08	4.58E-08	1.11E-11	0.00E+00	6.03E-08
3586	420848.72	3734989.34	1.61E-07	6.81E-07	2.99E-10	0.00E+00	8.42E-07	2.21E-08	9.31E-08	4.45E-11	0.00E+00	1.15E-07	1.36E-08	4.28E-08	1.03E-11	0.00E+00	5.64E-08
3587	420839.66	3734993.13	1.50E-07	6.33E-07	2.78E-10	0.00E+00	7.84E-07	2.06E-08	8.66E-08	4.14E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.61E-12	0.00E+00	5.24E-08
3588	420830.61	3734996.93	1.39E-07	5.88E-07	2.58E-10	0.00E+00	7.27E-07	1.91E-08	8.04E-08	3.84E-11	0.00E+00	9.95E-08	1.17E-08	3.69E-08	8.92E-12	0.00E+00	4.87E-08
3589	420821.55	3735000.72	1.29E-07	5.43E-07	2.38E-10	0.00E+00	6.72E-07	1.76E-08	7.43E-08	3.55E-11	0.00E+00	9.20E-08	1.08E-08	3.42E-08	8.24E-12	0.00E+00	4.50E-08
3590	420812.5	3735004.52	1.19E-07	5.01E-07	2.20E-10	0.00E+00	6.20E-07	1.63E-08	6.85E-08	3.28E-11	0.00E+00	8.48E-08	9.99E-09	3.15E-08	7.60E-12	0.00E+00	4.15E-08
3591	420803.44	3735008.32	1.10E-07	4.62E-07	2.03E-10	0.00E+00	5.72E-07	1.50E-08	6.32E-08	3.02E-11	0.00E+00	7.83E-08	9.21E-09	2.91E-08	7.01E-12	0.00E+00	3.83E-08
3592	420794.38	3735012.11	1.01E-07	4.26E-07	1.87E-10	0.00E+00	5.27E-07	1.38E-08	5.83E-08	2.79E-11	0.00E+00	7.21E-08	8.49E-09	2.68E-08	6.47E-12	0.00E+00	3.53E-08
3593	420785.33	3735015.91	9.29E-08	3.92E-07	1.72E-10	0.00E+00	4.86E-07	1.27E-08	5.37E-08	2.56E-11	0.00E+00	6.64E-08	7.82E-09	2.47E-08	5.95E-12	0.00E+00	3.25E-08
3594	420776.27	3735019.7	8.54E-08	3.60E-07	1.58E-10	0.00E+00	4.46E-07	1.17E-08	4.93E-08	2.36E-11	0.00E+00	6.10E-08	7.18E-09	2.27E-08	5.47E-12	0.00E+00	2.98E-08
3595	420767.21	3735023.5	7.81E-08	3.30E-07	1.45E-10	0.00E+00	4.08E-07	1.07E-08	4.51E-08	2.16E-11	0.00E+00	5.58E-08	6.57E-09	2.07E-08	5.00E-12	0.00E+00	2.73E-08
3596	421232.88	3734538.31	9.82E-08	4.14E-07	1.82E-10	0.00E+00	5.13E-07	1.35E-08	5.67E-08	2.71E-11	0.00E+00	7.02E-08	8.26E-09	2.60E-08	6.29E-12	0.00E+00	3.43E-08
3597	421233.15	3734528.32	9.33E-08	3.94E-07	1.73E-10	0.00E+00	4.87E-07	1.28E-08	5.39E-08	2.57E-11	0.00E+00	6.67E-08	7.85E-09	2.48E-08	5.97E-12	0.00E+00	3.26E-08
3598	421233.41	3734518.34	8.85E-08	3.74E-07	1.64E-10	0.00E+00	4.63E-07	1.21E-08	5.11E-08	2.44E-11	0.00E+00	6.33E-08	7.45E-09	2.35E-08	5.67E-12	0.00E+00	3.10E-08
3599	421253.05	3734594.45	1.14E-07	4.81E-07	2.11E-10	0.00E+00	5.95E-07	1.56E-08	6.58E-08	3.14E-11	0.00E+00	8.14E-08	9.59E-09	3.02E-08	7.30E-12	0.00E+00	3.98E-08
3600	421249.14	3734603.47	1.20E-07	5.08E-07	2.23E-10	0.00E+00	6.29E-07	1.65E-08	6.95E-08	3.32E-11	0.00E+00	8.60E-08	1.01E-08	3.19E-08	7.71E-12	0.00E+00	4.21E-08
3601	421245.23	3734612.49	1.27E-07	5.35E-07	2.35E-10	0.00E+00	6.62E-07	1.74E-08	7.32E-08	3.50E-11	0.00E+00	9.06E-08	1.07E-08	3.36E-08	8.12E-12	0.00E+00	4.43E-08
3602	421241.32	3734621.5	1.33E-07	5.62E-07	2.47E-10	0.00E+00	6.95E-07	1.82E-08	7.68E-08	3.67E-11	0.00E+00	9.51E-08	1.12E-08	3.53E-08	8.53E-12	0.00E+00	4.65E-08
3603	421237.41	3734630.52	1.39E-07	5.89E-07	2.58E-10	0.00E+00	7.29E-07	1.91E-08	8.05E-08	3.85E-11	0.00E+00	9.97E-08	1.17E-08	3.70E-08	8.94E-12	0.00E+00	4.88E-08
3604	421233.5	3734639.54	1.46E-07	6.16E-07	2.70E-10	0.00E+00	7.62E-07	2.00E-08	8.43E-08	4.03E-11	0.00E+00	1.04E-07	1.23E-08	3.87E-08	9.35E-12	0.00E+00	5.10E-08
3605	421229.59	3734648.56	1.52E-07	6.42E-07	2.82E-10	0.00E+00	7.94E-07	2.08E-08	8.78E-08	4.19E-11	0.00E+00	1.09E-07	1.28E-08	4.03E-08	9.74E-12	0.00E+00	5.31E-08
3606	421225.68	3734657.58	1.58E-07	6.68E-07	2.93E-10	0.00E+00	8.26E-07	2.17E-08	9.13E-08	4.36E-11	0.00E+00	1.13E-07	1.33E-08	4.20E-08	1.01E-11	0.00E+00	5.53E-08
3607	421221.77	3734666.59	1.64E-07	6.94E-07	3.04E-10	0.00E+00	8.58E-07	2.25E-08	9.49E-08	4.53E-11	0.00E+00	1.17E-07	1.38E-08	4.36E-08	1.05E-11	0.00E+00	5.74E-08
3608	421217.86	3734675.61	1.70E-07	7.20E-07	3.16E-10	0.00E+00	8.91E-07	2.34E-08	9.84E-08	4.70E-11	0.00E+00	1.22E-07	1.43E-08	4.52E-08	1.09E-11	0.00E+00	5.96E-08
3609	421213.95	3734684.63	1.76E-07	7.45E-07	3.27E-10	0.00E+00	9.22E-07	2.42E-08	1.02E-07	4.87E-11	0.00E+00	1.26E-07	1.48E-08	4.68E-08	1.13E-11	0.00E+00	6.17E-08
3610	421210.04	3734693.65	1.82E-07	7.69E-07	3.38E-10	0.00E+00	9.52E-07	2.50E-08	1.05E-07	5.03E-11	0.00E+00	1.30E-07	1.53E-08	4.84E-08	1.17E-11	0.00E+00	6.37E-08
3611	421206.13	3734702.67	1.88E-07	7.94E-07	3.48E-10	0.00E+00	9.82E-07	2.58E-08	1.09E-07	5.19E-11	0.00E+00	1.34E-07	1.58E-08	4.99E-08	1.20E-11	0.00E+00	6.57E-08
3612	421202.22	3734711.68	1.94E-07	8.20E-07	3.60E-10	0.00E+00	1.01E-06	2.66E-08	1.12E-07	5.36E-11	0.00E+00	1.39E-07	1.63E-08	5.15E-08	1.24E-11	0.00E+00	6.79E-08
3613	421198.31	3734720.7	2.00E-07	8.46E-07	3.71E-10	0.00E+00	1.05E-06	2.75E-08	1.16E-07	5.53E-11	0.00E+00	1.43E-07	1.69E-08	5.32E-08	1.28E-11	0.00E+00	7.00E-08
3614	421194.4	3734729.72	2.06E-07	8.71E-07	3.82E-10	0.00E+00	1.08E-06	2.83E-08	1.19E-07	5.69E-11	0.00E+00	1.47E-07	1.74E-08	5.47E-08	1.32E-11	0.00E+00	7.21E-08
3615	421190.49	3734738.74	2.12E-07	8.94E-07	3.92E-10	0.00E+00	1.11E-06	2.90E-08	1.22E-07	5.84E-11	0.00E+00	1.51E-07	1.78E-08	5.62E-08	1.36E-11	0.00E+00	7.40E-08
3616	421186.58	3734747.76	2.17E-07	9.15E-07	4.02E-10	0.00E+00	1.13E-06	2.97E-08	1.25E-07	5.98E-11	0.00E+00	1.55E-07	1.82E-08	5.75E-08	1.39E-11	0.00E+00	7.58E-08
3617	421182.67	3734756.77	2.22E-07	9.36E-07	4.11E-10	0.00E+00	1.16E-06	3.04E-08	1.28E-07	6.12E-11	0.00E+00	1.59E-07	1.87E-08	5.89E-08	1.42E-11	0.00E+00	7.75E-08
3618	421178.76	3734765.79	2.26E-07	9.56E-07	4.19E-10	0.00E+00	1.18E-06	3.10E-08	1.31E-07	6.25E-11	0.00E+00	1.62E-07	1.90E-08	6.01E-08	1.45E-11	0.00E+00	7.91E-08
3619	421174.85	3734774.81	2.30E-07	9.72E-07	4.26E-10	0.00E+00	1.20E-06	3.16E-08	1.33E-07	6.35E-11	0.00E+00	1.65E-07	1.94E-08	6.11E-08	1.47E-11	0.00E+00	8.05E-08
3620	421170.94	3734783.83	2.33E-07	9.86E-07	4.33E-10	0.00E+00	1.22E-06	3.20E-08	1.35E-07	6.44E-11	0.00E+00	1.67E-07	1.96E-08	6.20E-08	1.50E-11	0.00E+00	8.16E-08
3621	421167.03	3734792.85	2.36E-07	9.98E-07	4.38E-10	0.00E+00	1.23E-06	3.24E-08	1.36E-07	6.52E-11	0.00E+00	1.69E-07	1.99E-08	6.27E-08	1.51E-11	0.00E+00	8.26E-08
3622	421155.3	3734819.9	2.38E-07	1.01E-06	4.42E-10	0.00E+00	1.25E-06	3.27E-08	1.38E-07	6.58E-11	0.00E+00	1.70E-07	2.01E-08	6.33E-08	1.53E-11	0.00E+00	8.33E-08
3623	421151.39	3734828.92	2.38E-07	1.00E-06	4.40E-10	0.00E+00	1.24E-06	3.26E-08	1.37E-07	6.55E-11	0.00E+00	1.70E-07	2.00E-08	6.30E-08	1.52E-11	0.00E+00	8.30E-08
3624	421147.48	3734837.94	2.36E-07	9.98E-07	4.38E-10	0.00E+00	1.23E-06	3.24E-08	1.36E-07	6.52E-11	0.00E+00	1.69E-07	1.99E-08	6.27E-08	1.51E-11	0.00E+00	8.26E-08
3625	421143.57	3734846.95	2.35E-07	9.91E-07	4.35E-10	0.00E+00	1.23E-06	3.22E-08	1.35E-07	6.47E-11	0.00E+00	1.68E-07	1.97E-08	6.23E-08	1.50E-11	0.00E+00	8.20E-08
3626	421139.66	3734855.97	2.33E-07	9.85E-07	4.32E-10	0.00E+00	1.22E-06	3.20E-08	1.35E-07	6.44E-11	0.00E+00	1.67E-07	1.96E-08	6.19E-08	1.49E-11	0.00E+00	8.15E-08
3627	421135.75	3734864.99	2.32E-07	9.82E-07	4.31E-10	0.00E+00	1.21E-06	3.19E-08	1.34E-07	6.41E-11	0.00E+00	1.66E-07	1.96E-08	6.17E-08	1.49E-11	0.00E+00	8.13E-08
3628	421131.84	3734874.01	2.31E-07	9.76E-07	4.28E-10	0.00E+00	1.21E-06	3.17E-08	1.33E-07	6.38E-11	0.00E+00	1.65E-07	1.95E-08	6.14E-08	1.48E-11	0.00E+00	8.08E-08
3629	421127.93	3734883.03	2.30E-07	9.71E-07	4.26E-10	0.00E+00	1.20E-06	3.15E-08	1.33E-07	6.34E-11	0.00E+00	1.64E-07	1.93E-08	6.10E-08	1.47E-11	0.00E+00	8.04E-08
3630	421124.02	3734892.04	2.29E-07	9.66E-07	4.24E-10	0.00E+00	1.20E-06	3.14E-08	1.32E-07	6.32E-11	0.00E+00	1.64E-07	1.93E-08	6.07E-08	1.47E-11	0.00E+00	8.00E-08
3631	421085.1	3734930.5	2.41E-07	1.02E-06	4.47E-10	0.00E+00	1.26E-06	3.31E-08	1.39E-07	6.66E-11	0.00E+00	1.72E-07	2.03E-08	6.40E-08	1.55E-11	0.00E+00	8.43E-08
3632	421076.03	3734934.3	2.45E-07	1.04E-06	4.55E-10	0.00E+00	1.28E-06	3.36E-08	1.42E-07	6.77E-11	0.00E+00	1.75E-07	2.07E-08	6.51E-08	1.57E-11	0.00E+00	8.58E-08
3633	421066.97	3734938.1	2.49E-07	1.05E-06	4.61E-10	0.00E+00	1.30E-06	3.41E-08	1.44E-07	6.87E-11	0.00E+00	1.78E-07	2.09E-08	6.60E-08	1.59E-11	0.00E+00	8.70E-08
3634	421057.9	3734941.9	2.52E-07	1.06E-06	4.66E-10	0.00E+00	1.31E-06	3.45E-08	1.45E-07	6.94E-11	0.00E+00	1.80E-07	2.12E-08	6.68E-08	1.61E-11	0.00E+00	8.79E-08
3635	421048.84	3734945.7	2.53E-07	1.07E-06	4.70E-10	0.00E+00	1.32E-06	3.47E-08	1.46E-07	6.99E-11	0.00E+00	1.81E-07	2.13E-08	6.73E-08	1.62E-11	0.00E+00	8.86E-08
3636	421039.77	3734949.5	2.55E-07	1.07E-06	4.72E-10	0.00E+00	1.33E-06	3.49E-08	1.47E-07	7.02E-11	0.00E+00	1.82E-07	2.14E-08	6.75E-08	1.63E-11	0.00E+00	8.90E-08
3637	421030.71	3734953.29	2.55E-07	1.08E-06	4.73E-10	0.00E+00	1.33E-06	3.50E-08	1.47E-07	7.04E-11	0.00E+00	1.82E-07	2.15E-08	6.77E-08	1.63E-11	0.00E+00	8.92E-08
3638	421021.64	3734957.09	2.55E-07	1.08E-06	4.72E-10	0.00E+00	1.33E-06	3.50E-08	1.47E-07	7.04E-11	0.00E+00	1.82E-07	2.15E-08	6.77E-08	1.63E-11	0.00E+00	8.91E-08
3639	420994.45	3734968.49	2.50E-07	1.05E-06	4.63E-10	0.00E+00	1.30E-06	3.42E-08	1.44E-07	6.89E-11	0.00E+00	1.78E-07	2.10E-08	6.63E-08	1.60E-11	0.00E+00	8.73E-08
3640	420985.38	3734972.29	2.46E-07	1.04E-06	4.56E-10	0.00E+00	1.29E-06	3.37E-08	1.42E-07	6.79E-11	0.00E+00	1.76E-07	2.07E-08	6.53E-08	1.58E-11	0.00E+00	8.60E-08
3641	420976.32	3734976.09	2.42E-07	1.02E-06	4.48E-10	0.00E+00	1.26E-06	3.31E-08	1.39E-07	6.67E-11	0.00E+00	1.73E-07	2.03E-08	6.41E-08	1.55E-11	0.00E+00	8.44E-08
3642	420967.25	3734979.89	2.36E-07	9.98E-07	4.38E-10	0.00E+00	1.23E-06	3.24E-08	1.36E-07	6.52E-11	0.00E+00	1.69E-07	1.99E-08	6.27E-08	1.51E-11	0.00E+00	8.26E-08
3643	420958.19	3734983.69	2.30E-07	9.73E-07	4.27E-10	0.00E+00	1.20E-06	3.16E-08	1.33E-07	6.36E-11	0.00E+00	1.65E-07	1.94E-08	6.12E-08	1.48E-11	0.00E+00	8.06E-08
3644	420949.12	3734987.49	2.24E-07	9.45E-07	4.15E-10	0.00E+00	1.17E-06	3.07E-08	1.29E-07	6.17E-11	0.00E+00	1.60E-07	1.88E-08	5.94E-08	1.43E-11	0.00E+00	7.82E-08
3645	420940.06	3734991.29	2.16E-07	9.14E-07	4.01E-10	0.00E+00	1.13E-06	2.97E-08	1.25E-07	5.97E-11	0.00E+00	1.55E-07	1.82E-08	5.74E-08	1.39E-11	0.00E+00	7.57E-08
3646	420930.99	3734995.09	2.08E-07	8.80E-07	3.86E-10	0.00E+00	1.09E-06	2.86E-08	1.20E-07	5.75E-11	0.00E+00	1.49E-07	1.75E-08	5.53E-08	1.34E-11	0.00E+00	7.29E-08
3647	420921.93	3734998.89	2.00E-07	8.45E-07	3.71E-10	0.00E+00	1.05E-06	2.74E-08	1.16E-07	5.52E-11	0.00E+00	1.43E-07	1.68E-08	5.31E-08	1.28E-11	0.00E+00	6.99E-08
3648	420912.86	3735002.69	1.91E-07	8.08E-07	3.55E-10	0.00E+00	1.00E-06	2.62E-08	1.10E-07	5.28E-11	0.00E+00	1.37E-07	1.61E-08	5.08E-08	1.23E-11	0.00E+00	6.69E-08
3649	420903.8	3735006.49	1.82E-07	7.70E-07	3.38E-10	0.00E+00	9.53E-07	2.50E-08	1.05E-07	5.03E-11	0.00E+00	1.30E-07	1.53E-08	4.84E-08	1.17E-11	0.00E+00	6.37E-08
3650	420894.73	3735010.29	1.73E-07	7.32E-07	3.21E-10	0.00E+00	9.06E-07	2.38E-08	1.00E-07	4.78E-11	0.00E+00	1.24E-07	1.46E-08	4.60E-08	1.11E-11	0.00E+00	6.06E-08
3651	420885.67	3735014.09	1.64E-07	6.94E-07	3.05E-10	0.00E+00	8.59E-07	2.25E-08	9.49E-08	4.54E-11	0.00E+00	1.17E-07	1.38E-08	4.36E-08	1.05E-11	0.00E+00	5.75E-08
3652	420876.6	3735017.89	1.55E-07	6.56E-07	2.88E-10	0.00E+00	8.11E-07	2.13E-08	8.97E-08	4.28E-11	0.00E+00	1.11E-07	1.31E-08	4.12E-08	9.95E-12	0.00E+00	5.43E-08
3653	420867.54	3735021.69	1.46E-07	6.17E-07	2.71E-10	0.00E+00	7.64E-07	2.00E-08	8.44E-08	4.03E-11	0.00E+00	1.04E-07	1.23E-08	3.88E-08	9.36E-12	0.00E+00	5.11E-08
3654	420776.89	3735059.68	6.90E-08	2.92E-07	1.28E-10	0.00E+00	3.61E-07	9.47E-09	3.99E-08	1.91E-11	0.00E+00	4.94E-08	5.81E-09	1.83E-08	4.42E-12	0.00E+00	2.41E-08
3655	420767.82	3735063.48	6.34E-08	2.68E-07	1.17E-10	0.00E+00	3.31E-07	8.69E-09	3.66E-08	1.75E-11	0.00E+00	4.53E-08	5.33E-09	1.68E-08	4.06E-12	0.00E+00	2.22E-08
3656	420758.76	3735067.28	5.81E-08	2.45E-07	1.08E-10	0.00E+00	3.04E-07	7.97E-09	3.36E-08	1.60E-11	0.00E+00	4.16E-08	4.89E-09	1.54E-08	3.72E-12	0.00E+00	2.03E-08
3657	420749.69	3735071.08	5.33E-08	2.25E-07	9.88E-11	0.00E+00	2.79E-07	7.31E-09	3.08E-08	1.47E-11	0.00E+00	3.81E-08	4.49E-09	1.42E-08	3.42E-12	0.00E+00	1.86E-08
3658	421272.86	3734539.38	8.21E-08	3.46E-07	1.52E-10	0.00E+00	4.29E-07	1.12E-08	4.74E-08	2.26E-11	0.00E+00	5.87E-08	6.90E-09	2.18E-08	5.26E-12	0.00E+00	2.87E-08
3659	421273.13	3734529.39	7.81E-08	3.30E-07	1.45E-10	0.00E+00	4.08E-07	1.07E-08	4.51E-08	2.16E-11	0.00E+00	5.59E-08	6.57E-09	2.07E-08	5.01E-12	0.00E+00	2.73E-08
3660	421273.4	3734519.41	7.44E-08	3.14E-07	1.38E-10	0.00E+00	3.89E-07	1.02E-08	4.29E-08	2.05E-11	0.00E+00	5.32E-08	6.26E-09	1.97E-08	4.77E-12	0.00E+00	2.60E-08
3661	421304.76	3734568.48	7.97E-08	3.37E-07	1.48E-10	0.00E+00	4.16E-07	1.09E-08	4.60E-08	2.20E-11	0.00E+00	5.70E-08	6.71E-09	2.12E-08	5.11E-12	0.00E+00	2.79E-08
3662	421285.19	3734613.61	1.04E-07	4.39E-07	1.92E-10	0.00E+00	5.43E-07	1.42E-08	6.00E-08	2.87E-11	0.00E+00	7.42E-08	8.74E-09	2.76E-08	6.65E-12	0.00E+00	3.63E-08
3663	421281.28	3734622.63	1.09E-07	4.62E-07	2.03E-10	0.00E+00	5.72E-07	1.50E-08	6.32E-08	3.02E-11	0.00E+00	7.82E-08	9.21E-09	2.91E-08	7.01E-12	0.00E+00	3.83E-08
3664	421277.36	3734631.66	1.15E-07	4.86E-07	2.13E-10	0.00E+00	6.02E-07	1.58E-08	6.65E-08	3.18E-11	0.00E+00	8.23E-08	9.69E-09	3.06E-08	7.38E-12	0.00E+00	4.03E-08
3665	421273.45	3734640.68	1.21E-07	5.10E-07	2.24E-10	0.00E+00	6.31E-07	1.66E-08	6.97E-08	3.33E-11	0.00E+00	8.63E-08	1.02E-08	3.20E-08	7.74E-12	0.00E+00	4.22E-08
3666	421269.54	3734649.71	1.26E-07	5.33E-07	2.34E-10	0.00E+00	6.59E-07	1.73E-08	7.28E-08	3.48E-11	0.00E+00	9.02E-08	1.06E-08	3.35E-08	8.08E-12	0.00E+00	4.41E-08
3667	421265.63	3734658.73	1.31E-07	5.55E-07	2.43E-10	0.00E+00	6.86E-07	1.80E-08	7.59E-08	3.63E-11	0.00E+00	9.39E-08	1.11E-08	3.49E-08	8.42E-12	0.00E+00	4.59E-08
3668	421261.71	3734667.76	1.37E-07	5.77E-07	2.53E-10	0.00E+00	7.13E-07	1.87E-08	7.89E-08	3.77E-11	0.00E+00	9.76E-08	1.15E-08	3.62E-08	8.75E-12	0.00E+00	4.77E-08
3669	421257.8	3734676.79	1.42E-07	5.98E-07	2.62E-10	0.00E+00	7.39E-07	1.94E-08	8.17E-08	3.91E-11	0.00E+00	1.01E-07	1.19E-08	3.76E-08	9.07E-12	0.00E+00	4.95E-08
3670	421253.89	3734685.81	1.46E-07	6.18E-07	2.71E-10	0.00E+00	7.65E-07	2.01E-08	8.45E-08	4.04E-11	0.00E+00	1.05E-07	1.23E-08	3.89E-08	9.38E-12	0.00E+00	5.12E-08
3671	421249.97	3734694.84	1.51E-07	6.38E-07	2.80E-10	0.00E+00	7.90E-07	2.07E-08	8.73E-08	4.17E-11	0.00E+00	1.08E-07	1.27E-08	4.01E-08	9.68E-12	0.00E+00	5.28E-08
3672	421246.06	3734703.86	1.56E-07	6.58E-07	2.89E-10	0.00E+00	8.14E-07	2.14E-08	9.00E-08	4.30E-11	0.00E+00	1.11E-07	1.31E-08	4.13E-08	9.98E-12	0.00E+00	5.45E-08
3673	421242.15	3734712.89	1.60E-07	6.77E-07	2.97E-10	0.00E+00	8.38E-07	2.20E-08	9.26E-08	4.42E-11	0.00E+00	1.15E-07	1.35E-08	4.25E-08	1.03E-11	0.00E+00	5.60E-08
3674	421238.23	3734721.91	1.65E-07	6.95E-07	3.05E-10	0.00E+00	8.60E-07	2.26E-08	9.51E-08	4.54E-11	0.00E+00	1.18E-07	1.39E-08	4.37E-08	1.05E-11	0.00E+00	5.76E-08
3675	421234.32	3734730.94	1.69E-07	7.13E-07	3.13E-10	0.00E+00	8.82E-07	2.31E-08	9.75E-08	4.66E-11	0.00E+00	1.21E-07	1.42E-08	4.48E-08	1.08E-11	0.00E+00	5.90E-08
3676	421230.41	3734739.97	1.73E-07	7.31E-07	3.21E-10	0.00E+00	9.04E-07	2.37E-08	1.00E-07	4.78E-11	0.00E+00	1.24E-07	1.46E-08	4.59E-08	1.11E-11	0.00E+00	6.05E-08

3677	421226.49	3734748.99	1.78E-07	7.50E-07	3.29E-10	0.00E+00	9.28E-07	2.43E-08	1.03E-07	4.90E-11	0.00E+00	1.27E-07	1.49E-08	4.71E-08	1.14E-11	0.00E+00	6.21E-08
3678	421222.58	3734758.02	1.82E-07	7.68E-07	3.37E-10	0.00E+00	9.50E-07	2.49E-08	1.05E-07	5.02E-11	0.00E+00	1.30E-07	1.53E-08	4.83E-08	1.16E-11	0.00E+00	6.36E-08
3679	421218.67	3734767.04	1.85E-07	7.82E-07	3.43E-10	0.00E+00	9.67E-07	2.54E-08	1.07E-07	5.11E-11	0.00E+00	1.32E-07	1.56E-08	4.91E-08	1.19E-11	0.00E+00	6.47E-08
3680	421214.75	3734776.07	1.89E-07	7.98E-07	3.50E-10	0.00E+00	9.88E-07	2.59E-08	1.09E-07	5.22E-11	0.00E+00	1.35E-07	1.59E-08	5.02E-08	1.21E-11	0.00E+00	6.61E-08
3681	421210.84	3734785.09	1.93E-07	8.14E-07	3.57E-10	0.00E+00	1.01E-06	2.64E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.12E-08	1.24E-11	0.00E+00	6.74E-08
3682	421206.93	3734794.12	1.96E-07	8.27E-07	3.63E-10	0.00E+00	1.02E-06	2.69E-08	1.13E-07	5.41E-11	0.00E+00	1.40E-07	1.65E-08	5.20E-08	1.25E-11	0.00E+00	6.85E-08
3683	421195.19	3734821.2	2.02E-07	8.51E-07	3.74E-10	0.00E+00	1.05E-06	2.76E-08	1.16E-07	5.56E-11	0.00E+00	1.44E-07	1.70E-08	5.35E-08	1.29E-11	0.00E+00	7.05E-08
3684	421191.28	3734830.22	2.03E-07	8.55E-07	3.75E-10	0.00E+00	1.06E-06	2.78E-08	1.17E-07	5.59E-11	0.00E+00	1.45E-07	1.70E-08	5.37E-08	1.30E-11	0.00E+00	7.08E-08
3685	421187.36	3734839.25	2.03E-07	8.57E-07	3.76E-10	0.00E+00	1.06E-06	2.78E-08	1.17E-07	5.60E-11	0.00E+00	1.45E-07	1.71E-08	5.39E-08	1.30E-11	0.00E+00	7.09E-08
3686	421183.45	3734848.27	2.03E-07	8.57E-07	3.76E-10	0.00E+00	1.06E-06	2.78E-08	1.17E-07	5.60E-11	0.00E+00	1.45E-07	1.71E-08	5.39E-08	1.30E-11	0.00E+00	7.09E-08
3687	421179.54	3734857.3	2.03E-07	8.55E-07	3.75E-10	0.00E+00	1.06E-06	2.78E-08	1.17E-07	5.59E-11	0.00E+00	1.45E-07	1.70E-08	5.38E-08	1.30E-11	0.00E+00	7.08E-08
3688	421175.62	3734866.32	2.02E-07	8.53E-07	3.74E-10	0.00E+00	1.06E-06	2.77E-08	1.17E-07	5.57E-11	0.00E+00	1.44E-07	1.70E-08	5.36E-08	1.29E-11	0.00E+00	7.06E-08
3689	421171.71	3734875.35	2.01E-07	8.49E-07	3.73E-10	0.00E+00	1.05E-06	2.76E-08	1.16E-07	5.55E-11	0.00E+00	1.44E-07	1.69E-08	5.34E-08	1.29E-11	0.00E+00	7.03E-08
3690	421167.8	3734884.38	2.00E-07	8.46E-07	3.71E-10	0.00E+00	1.05E-06	2.75E-08	1.16E-07	5.53E-11	0.00E+00	1.43E-07	1.69E-08	5.32E-08	1.28E-11	0.00E+00	7.01E-08
3691	421163.88	3734893.4	2.00E-07	8.44E-07	3.70E-10	0.00E+00	1.04E-06	2.74E-08	1.15E-07	5.52E-11	0.00E+00	1.43E-07	1.68E-08	5.30E-08	1.28E-11	0.00E+00	6.99E-08
3692	421159.97	3734902.43	1.99E-07	8.41E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.49E-11	0.00E+00	1.42E-07	1.67E-08	5.28E-08	1.28E-11	0.00E+00	6.96E-08
3693	421156.06	3734911.45	1.98E-07	8.37E-07	3.67E-10	0.00E+00	1.04E-06	2.72E-08	1.14E-07	5.47E-11	0.00E+00	1.42E-07	1.67E-08	5.26E-08	1.27E-11	0.00E+00	6.93E-08
3694	421152.14	3734920.48	1.98E-07	8.34E-07	3.66E-10	0.00E+00	1.03E-06	2.71E-08	1.14E-07	5.45E-11	0.00E+00	1.41E-07	1.66E-08	5.24E-08	1.27E-11	0.00E+00	6.91E-08
3695	421148.23	3734929.5	1.97E-07	8.32E-07	3.65E-10	0.00E+00	1.03E-06	2.70E-08	1.14E-07	5.44E-11	0.00E+00	1.41E-07	1.66E-08	5.23E-08	1.26E-11	0.00E+00	6.89E-08
3696	421144.32	3734938.53	1.96E-07	8.29E-07	3.64E-10	0.00E+00	1.03E-06	2.69E-08	1.13E-07	5.42E-11	0.00E+00	1.40E-07	1.65E-08	5.21E-08	1.26E-11	0.00E+00	6.86E-08
3697	421131.33	3734951.36	2.00E-07	8.43E-07	3.70E-10	0.00E+00	1.04E-06	2.74E-08	1.15E-07	5.51E-11	0.00E+00	1.43E-07	1.68E-08	5.30E-08	1.28E-11	0.00E+00	6.98E-08
3698	421122.26	3734955.16	2.03E-07	8.59E-07	3.77E-10	0.00E+00	1.06E-06	2.79E-08	1.17E-07	5.61E-11	0.00E+00	1.45E-07	1.71E-08	5.40E-08	1.30E-11	0.00E+00	7.11E-08
3699	421085.97	3734970.37	2.15E-07	9.08E-07	3.98E-10	0.00E+00	1.12E-06	2.95E-08	1.24E-07	5.93E-11	0.00E+00	1.54E-07	1.81E-08	5.71E-08	1.38E-11	0.00E+00	7.52E-08
3700	421076.9	3734974.17	2.17E-07	9.16E-07	4.02E-10	0.00E+00	1.13E-06	2.97E-08	1.25E-07	5.98E-11	0.00E+00	1.55E-07	1.82E-08	5.75E-08	1.39E-11	0.00E+00	7.58E-08
3701	421067.82	3734977.98	2.18E-07	9.22E-07	4.04E-10	0.00E+00	1.14E-06	2.99E-08	1.26E-07	6.02E-11	0.00E+00	1.56E-07	1.84E-08	5.79E-08	1.40E-11	0.00E+00	7.63E-08
3702	421058.75	3734981.78	2.19E-07	9.25E-07	4.06E-10	0.00E+00	1.14E-06	3.00E-08	1.27E-07	6.05E-11	0.00E+00	1.57E-07	1.84E-08	5.82E-08	1.40E-11	0.00E+00	7.66E-08
3703	421049.68	3734985.58	2.20E-07	9.27E-07	4.07E-10	0.00E+00	1.15E-06	3.01E-08	1.27E-07	6.06E-11	0.00E+00	1.57E-07	1.85E-08	5.83E-08	1.41E-11	0.00E+00	7.68E-08
3704	421040.6	3734989.39	2.19E-07	9.26E-07	4.06E-10	0.00E+00	1.15E-06	3.01E-08	1.27E-07	6.05E-11	0.00E+00	1.57E-07	1.85E-08	5.82E-08	1.40E-11	0.00E+00	7.67E-08
3705	421031.53	3734993.19	2.18E-07	9.22E-07	4.05E-10	0.00E+00	1.14E-06	2.99E-08	1.26E-07	6.02E-11	0.00E+00	1.56E-07	1.84E-08	5.79E-08	1.40E-11	0.00E+00	7.63E-08
3706	421022.46	3734996.99	2.17E-07	9.14E-07	4.01E-10	0.00E+00	1.13E-06	2.97E-08	1.25E-07	5.98E-11	0.00E+00	1.55E-07	1.82E-08	5.75E-08	1.39E-11	0.00E+00	7.57E-08
3707	420995.24	3735008.4	2.08E-07	8.78E-07	3.85E-10	0.00E+00	1.09E-06	2.85E-08	1.20E-07	5.74E-11	0.00E+00	1.49E-07	1.75E-08	5.52E-08	1.33E-11	0.00E+00	7.27E-08
3708	420986.17	3735012.2	2.04E-07	8.61E-07	3.78E-10	0.00E+00	1.07E-06	2.80E-08	1.18E-07	5.63E-11	0.00E+00	1.46E-07	1.72E-08	5.41E-08	1.31E-11	0.00E+00	7.13E-08
3709	420977.1	3735016.01	1.99E-07	8.41E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.50E-11	0.00E+00	1.42E-07	1.68E-08	5.29E-08	1.28E-11	0.00E+00	6.97E-08
3710	420968.02	3735019.81	1.94E-07	8.19E-07	3.60E-10	0.00E+00	1.01E-06	2.66E-08	1.12E-07	5.36E-11	0.00E+00	1.39E-07	1.63E-08	5.15E-08	1.24E-11	0.00E+00	6.78E-08
3711	420913.59	3735042.63	1.54E-07	6.51E-07	2.86E-10	0.00E+00	8.06E-07	2.11E-08	8.91E-08	4.26E-11	0.00E+00	1.10E-07	1.30E-08	4.09E-08	9.88E-12	0.00E+00	5.39E-08
3712	420904.52	3735046.43	1.47E-07	6.20E-07	2.72E-10	0.00E+00	7.67E-07	2.01E-08	8.47E-08	4.05E-11	0.00E+00	1.05E-07	1.23E-08	3.89E-08	9.40E-12	0.00E+00	5.13E-08
3713	420895.44	3735050.23	1.39E-07	5.88E-07	2.58E-10	0.00E+00	7.27E-07	1.91E-08	8.03E-08	3.84E-11	0.00E+00	9.95E-08	1.17E-08	3.69E-08	8.91E-12	0.00E+00	4.86E-08
3714	420886.37	3735054.03	1.32E-07	5.55E-07	2.44E-10	0.00E+00	6.87E-07	1.80E-08	7.60E-08	3.63E-11	0.00E+00	9.40E-08	1.11E-08	3.49E-08	8.43E-12	0.00E+00	4.60E-08
3715	420877.3	3735057.84	1.24E-07	5.24E-07	2.30E-10	0.00E+00	6.48E-07	1.70E-08	7.16E-08	3.42E-11	0.00E+00	8.86E-08	1.04E-08	3.29E-08	7.94E-12	0.00E+00	4.33E-08
3716	420868.22	3735061.64	1.17E-07	4.92E-07	2.16E-10	0.00E+00	6.09E-07	1.60E-08	6.73E-08	3.22E-11	0.00E+00	8.33E-08	9.81E-09	3.09E-08	7.47E-12	0.00E+00	4.07E-08
3717	420859.15	3735065.44	1.09E-07	4.60E-07	2.02E-10	0.00E+00	5.70E-07	1.49E-08	6.30E-08	3.01E-11	0.00E+00	7.79E-08	9.17E-09	2.89E-08	6.99E-12	0.00E+00	3.81E-08
3718	420850.08	3735069.24	1.02E-07	4.30E-07	1.88E-10	0.00E+00	5.31E-07	1.39E-08	5.87E-08	2.81E-11	0.00E+00	7.27E-08	8.56E-09	2.70E-08	6.52E-12	0.00E+00	3.56E-08
3719	420841.01	3735073.05	9.46E-08	3.99E-07	1.75E-10	0.00E+00	4.94E-07	1.30E-08	5.46E-08	2.61E-11	0.00E+00	6.76E-08	7.96E-09	2.51E-08	6.06E-12	0.00E+00	3.31E-08
3720	420831.93	3735076.85	8.80E-08	3.72E-07	1.63E-10	0.00E+00	4.60E-07	1.21E-08	5.08E-08	2.43E-11	0.00E+00	6.29E-08	7.41E-09	2.34E-08	5.64E-12	0.00E+00	3.08E-08
3721	421313.12	3734530.46	6.60E-08	2.79E-07	1.22E-10	0.00E+00	3.45E-07	9.05E-09	3.81E-08	1.82E-11	0.00E+00	4.72E-08	5.56E-09	1.75E-08	4.23E-12	0.00E+00	2.31E-08
3722	421313.38	3734520.48	6.30E-08	2.66E-07	1.17E-10	0.00E+00	3.29E-07	8.64E-09	3.64E-08	1.74E-11	0.00E+00	4.51E-08	5.30E-09	1.67E-08	4.04E-12	0.00E+00	2.20E-08
3723	421344.74	3734569.56	6.70E-08	2.83E-07	1.24E-10	0.00E+00	3.50E-07	9.18E-09	3.87E-08	1.85E-11	0.00E+00	4.79E-08	5.64E-09	1.78E-08	4.29E-12	0.00E+00	2.34E-08
3724	421340.82	3734578.59	7.02E-08	2.96E-07	1.30E-10	0.00E+00	3.67E-07	9.62E-09	4.05E-08	1.94E-11	0.00E+00	5.02E-08	5.90E-09	1.86E-08	4.50E-12	0.00E+00	2.45E-08
3725	421336.9	3734587.62	7.38E-08	3.12E-07	1.37E-10	0.00E+00	3.86E-07	1.01E-08	4.26E-08	2.04E-11	0.00E+00	5.28E-08	6.21E-09	1.96E-08	4.73E-12	0.00E+00	2.58E-08
3726	421332.99	3734596.66	7.76E-08	3.28E-07	1.44E-10	0.00E+00	4.05E-07	1.06E-08	4.48E-08	2.14E-11	0.00E+00	5.55E-08	6.53E-09	2.06E-08	4.97E-12	0.00E+00	2.71E-08
3727	421329.07	3734605.69	8.15E-08	3.44E-07	1.51E-10	0.00E+00	4.26E-07	1.12E-08	4.70E-08	2.25E-11	0.00E+00	5.82E-08	6.85E-09	2.16E-08	5.22E-12	0.00E+00	2.85E-08
3728	421325.16	3734614.72	8.55E-08	3.61E-07	1.59E-10	0.00E+00	4.47E-07	1.17E-08	4.94E-08	2.36E-11	0.00E+00	6.11E-08	7.20E-09	2.27E-08	5.48E-12	0.00E+00	2.99E-08
3729	421321.24	3734623.75	8.99E-08	3.80E-07	1.67E-10	0.00E+00	4.70E-07	1.23E-08	5.19E-08	2.48E-11	0.00E+00	6.43E-08	7.56E-09	2.39E-08	5.76E-12	0.00E+00	3.14E-08
3730	421317.32	3734632.79	9.45E-08	3.99E-07	1.75E-10	0.00E+00	4.94E-07	1.30E-08	5.45E-08	2.61E-11	0.00E+00	6.75E-08	7.95E-09	2.51E-08	6.05E-12	0.00E+00	3.30E-08
3731	421313.41	3734641.82	9.92E-08	4.19E-07	1.84E-10	0.00E+00	5.18E-07	1.36E-08	5.73E-08	2.74E-11	0.00E+00	7.09E-08	8.35E-09	2.63E-08	6.36E-12	0.00E+00	3.47E-08
3732	421309.49	3734650.85	1.04E-07	4.39E-07	1.93E-10	0.00E+00	5.43E-07	1.43E-08	6.00E-08	2.87E-11	0.00E+00	7.43E-08	8.75E-09	2.76E-08	6.66E-12	0.00E+00	3.63E-08
3733	421305.58	3734659.88	1.09E-07	4.59E-07	2.01E-10	0.00E+00	5.68E-07	1.49E-08	6.28E-08	3.00E-11	0.00E+00	7.77E-08	9.15E-09	2.88E-08	6.96E-12	0.00E+00	3.80E-08
3734	421301.66	3734668.91	1.13E-07	4.79E-07	2.10E-10	0.00E+00	5.93E-07	1.56E-08	6.55E-08	3.13E-11	0.00E+00	8.11E-08	9.54E-09	3.01E-08	7.27E-12	0.00E+00	3.97E-08
3735	421278.16	3734723.11	1.38E-07	5.84E-07	2.56E-10	0.00E+00	7.23E-07	1.90E-08	7.99E-08	3.82E-11	0.00E+00	9.89E-08	1.16E-08	3.67E-08	8.87E-12	0.00E+00	4.84E-08
3736	421274.25	3734732.14	1.42E-07	6.00E-07	2.63E-10	0.00E+00	7.43E-07	1.95E-08	8.21E-08	3.92E-11	0.00E+00	1.02E-07	1.20E-08	3.77E-08	9.11E-12	0.00E+00	4.97E-08
3737	421270.33	3734741.17	1.46E-07	6.15E-07	2.70E-10	0.00E+00	7.61E-07	2.00E-08	8.41E-08	4.02E-11	0.00E+00	1.04E-07	1.23E-08	3.87E-08	9.33E-12	0.00E+00	5.09E-08
3738	421266.42	3734750.2	1.49E-07	6.30E-07	2.76E-10	0.00E+00	7.79E-07	2.04E-08	8.61E-08	4.12E-11	0.00E+00	1.07E-07	1.25E-08	3.96E-08	9.56E-12	0.00E+00	5.21E-08
3739	421262.5	3734759.24	1.53E-07	6.44E-07	2.83E-10	0.00E+00	7.97E-07	2.09E-08	8.81E-08	4.21E-11	0.00E+00	1.09E-07	1.28E-08	4.05E-08	9.77E-12	0.00E+00	5.33E-08
3740	421258.58	3734768.27	1.55E-07	6.55E-07	2.87E-10	0.00E+00	8.10E-07	2.13E-08	8.95E-08	4.28E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.93E-12	0.00E+00	5.42E-08
3741	421254.67	3734777.3	1.58E-07	6.68E-07	2.93E-10	0.00E+00	8.27E-07	2.17E-08	9.14E-08	4.37E-11	0.00E+00	1.13E-07	1.33E-08	4.20E-08	1.01E-11	0.00E+00	5.53E-08
3742	421250.75	3734786.33	1.61E-07	6.81E-07	2.99E-10	0.00E+00	8.43E-07	2.21E-08	9.31E-08	4.45E-11	0.00E+00	1.15E-07	1.36E-08	4.28E-08	1.03E-11	0.00E+00	5.64E-08
3743	421246.84	3734795.37	1.64E-07	6.92E-07	3.04E-10	0.00E+00	8.56E-07	2.25E-08	9.46E-08	4.52E-11	0.00E+00	1.17E-07	1.38E-08	4.35E-08	1.05E-11	0.00E+00	5.73E-08
3744	421235.09	3734822.46	1.70E-07	7.18E-07	3.15E-10	0.00E+00	8.89E-07	2.33E-08	9.82E-08	4.69E-11	0.00E+00	1.22E-07	1.43E-08	4.51E-08	1.09E-11	0.00E+00	5.95E-08
3745	421231.17	3734831.49	1.72E-07	7.25E-07	3.18E-10	0.00E+00	8.97E-07	2.35E-08	9.91E-08	4.74E-11	0.00E+00	1.23E-07	1.44E-08	4.56E-08	1.10E-11	0.00E+00	6.00E-08
3746	421227.26	3734840.53	1.73E-07	7.31E-07	3.21E-10	0.00E+00	9.05E-07	2.37E-08	1.00E-07	4.78E-11	0.00E+00	1.24E-07	1.46E-08	4.60E-08	1.11E-11	0.00E+00	6.05E-08
3747	421223.34	3734849.56	1.74E-07	7.37E-07	3.23E-10	0.00E+00	9.12E-07	2.39E-08	1.01E-07	4.81E-11	0.00E+00	1.25E-07	1.47E-08	4.63E-08	1.12E-11	0.00E+00	6.10E-08
3748	421219.42	3734858.59	1.75E-07	7.40E-07	3.25E-10	0.00E+00	9.15E-07	2.40E-08	1.01E-07	4.83E-11	0.00E+00	1.25E-07	1.47E-08	4.65E-08	1.12E-11	0.00E+00	6.12E-08
3749	421215.51	3734867.62	1.76E-07	7.41E-07	3.25E-10	0.00E+00	9.17E-07	2.41E-08	1.01E-07	4.84E-11	0.00E+00	1.25E-07	1.48E-08	4.66E-08	1.12E-11	0.00E+00	6.14E-08
3750	421211.59	3734876.66	1.76E-07	7.42E-07	3.25E-10	0.00E+00	9.18E-07	2.41E-08	1.01E-07	4.85E-11	0.00E+00	1.26E-07	1.48E-08	4.66E-08	1.13E-11	0.00E+00	6.14E-08
3751	421207.68	3734885.69	1.76E-07	7.42E-07	3.26E-10	0.00E+00	9.18E-07	2.41E-08	1.01E-07	4.85E-11	0.00E+00	1.26E-07	1.48E-08	4.66E-08	1.13E-11	0.00E+00	6.14E-08
3752	421203.76	3734894.72	1.76E-07	7.43E-07	3.26E-10	0.00E+00	9.19E-07	2.41E-08	1.02E-07	4.85E-11	0.00E+00	1.26E-07	1.48E-08	4.67E-08	1.13E-11	0.00E+00	6.15E-08
3753	421199.84	3734903.75	1.76E-07	7.42E-07	3.26E-10	0.00E+00	9.19E-07	2.41E-08	1.02E-07	4.85E-11	0.00E+00	1.26E-07	1.48E-08	4.67E-08	1.13E-11	0.00E+00	6.15E-08
3754	421195.93	3734912.78	1.76E-07	7.41E-07	3.25E-10	0.00E+00	9.17E-07	2.41E-08	1.01E-07	4.84E-11	0.00E+00	1.25E-07	1.48E-08	4.66E-08	1.12E-11	0.00E+00	6.14E-08
3755	421192.01	3734921.82	1.75E-07	7.40E-07	3.25E-10	0.00E+00	9.16E-07	2.40E-08	1.01E-07	4.84E-11	0.00E+00	1.25E-07	1.47E-08	4.65E-08	1.12E-11	0.00E+00	6.13E-08
3756	421188.1	3734930.85	1.75E-07	7.38E-07	3.24E-10	0.00E+00	9.13E-07	2.40E-08	1.01E-07	4.82E-11	0.00E+00	1.25E-07	1.47E-08	4.64E-08	1.12E-11	0.00E+00	6.11E-08
3757	421184.18	3734939.88	1.74E-07	7.35E-07	3.23E-10	0.00E+00	9.10E-07	2.39E-08	1.01E-07	4.81E-11	0.00E+00	1.24E-07	1.47E-08	4.62E-08	1.12E-11	0.00E+00	6.09E-08
3758	421180.26	3734948.91	1.74E-07	7.33E-07	3.22E-10	0.00E+00	9.07E-07	2.38E-08	1.00E-07	4.79E-11	0.00E+00	1.24E-07	1.46E-08	4.61E-08	1.11E-11	0.00E+00	6.07E-08
3759	421176.35	3734957.95	1.73E-07	7.30E-07	3.20E-10	0.00E+00	9.03E-07	2.37E-08	9.98E-08	4.77E-11	0.00E+00	1.24E-07	1.45E-08	4.59E-08	1.11E-11	0.00E+00	6.04E-08
3760	421172.43	3734966.98	1.72E-07	7.26E-07	3.19E-10	0.00E+00	8.99E-07	2.36E-08	9.93E-08	4.75E-11	0.00E+00	1.23E-07	1.45E-08	4.57E-08	1.10E-11	0.00E+00	6.01E-08
3761	421159.44	3734979.82	1.75E-07	7.37E-07	3.24E-10	0.00E+00	9.12E-07	2.39E-08	1.01E-07	4.82E-11	0.00E+00	1.25E-07	1.47E-08	4.64E-08	1.12E-11	0.00E+00	6.11E-08
3762	421150.36	3734983.62	1.78E-07	7.51E-07	3.30E-10	0.00E+00	9.29E-07	2.44E-08	1.03E-07	4.91E-11	0.00E+00	1.27E-07	1.50E-08	4.72E-08	1.14E-11	0.00E+00	6.22E-08
3763	421141.28	3734987.43	1.81E-07	7.63E-07	3.35E-10	0.00E+00	9.45E-07	2.48E-08	1.04E-07	4.99E-11	0.00E+00	1.29E-07	1.52E-08	4.80E-08	1.16E-11	0.00E+00	6.32E-08
3764	421132.2	3734991.23	1.83E-07	7.75E-07	3.40E-10	0.00E+00	9.58E-07	2.51E-08	1.06E-07	5.06E-11	0.00E+00	1.31E-07	1.54E-08	4.87E-08	1.18E-11	0.00E+00	6.41E-08
3765	421123.12	3734995.04	1.86E-07	7.85E-07	3.44E-10	0.00E+00	9.71E-07	2.55E-08	1.07E-07	5.13E-11	0.00E+00	1.33E-07	1.56E-08	4.93E-08	1.19E-11	0.00E+00	6.50E-08
3766	421086.8	3735010.26	1.91E-07	8.08E-07	3.55E-10	0.00E+00	1.00E-06	2.62E-08	1.11E-07	5.28E-11	0.00E+00	1.37E-07	1.61E-08	5.08E-08	1.23E-11	0.00E+00	6.69E-08
3767	421077.72	3735014.07	1.92E-07	8.10E-07	3.55E-10	0.00E+00	1.00E-06	2.63E-08	1.11E-07	5.29E-11	0.00E+00	1.37E-07	1.61E-08	5.09E-08	1.23E-11	0.00E+00	6.70E-08
3768	421068.64	3735017.87	1.91E-07	8.08E-07	3.55E-10	0.00E+00	1.00E-06	2.62E-08	1.11E-07	5.28E-11	0.00E+00	1.37E-07	1.61E-08	5.08E-08	1.23E-11	0.00E+00	6.69E-08

3769	421059.56	3735021.68	1.90E-07	8.04E-07	3.53E-10	0.00E+00	9.95E-07	2.61E-08	1.10E-07	5.26E-11	0.00E+00	1.36E-07	1.60E-08	5.05E-08	1.22E-11	0.00E+00	6.66E-08
3770	421014.17	3735040.71	1.81E-07	7.65E-07	3.36E-10	0.00E+00	9.47E-07	2.49E-08	1.05E-07	5.00E-11	0.00E+00	1.30E-07	1.53E-08	4.81E-08	1.16E-11	0.00E+00	6.34E-08
3771	421005.09	3735044.51	1.78E-07	7.52E-07	3.30E-10	0.00E+00	9.31E-07	2.44E-08	1.03E-07	4.92E-11	0.00E+00	1.27E-07	1.50E-08	4.73E-08	1.14E-11	0.00E+00	6.23E-08
3772	420996.01	3735048.32	1.74E-07	7.37E-07	3.23E-10	0.00E+00	9.12E-07	2.39E-08	1.01E-07	4.81E-11	0.00E+00	1.25E-07	1.47E-08	4.63E-08	1.12E-11	0.00E+00	6.10E-08
3773	420986.93	3735052.12	1.70E-07	7.19E-07	3.16E-10	0.00E+00	8.90E-07	2.33E-08	9.83E-08	4.70E-11	0.00E+00	1.22E-07	1.43E-08	4.52E-08	1.09E-11	0.00E+00	5.95E-08
3774	420977.85	3735055.93	1.66E-07	6.99E-07	3.07E-10	0.00E+00	8.65E-07	2.27E-08	9.56E-08	4.57E-11	0.00E+00	1.18E-07	1.39E-08	4.40E-08	1.06E-11	0.00E+00	5.79E-08
3775	420968.77	3735059.73	1.61E-07	6.78E-07	2.97E-10	0.00E+00	8.39E-07	2.20E-08	9.27E-08	4.43E-11	0.00E+00	1.15E-07	1.35E-08	4.26E-08	1.03E-11	0.00E+00	5.61E-08
3776	420959.69	3735063.54	1.55E-07	6.55E-07	2.87E-10	0.00E+00	8.11E-07	2.13E-08	8.96E-08	4.28E-11	0.00E+00	1.11E-07	1.31E-08	4.12E-08	9.94E-12	0.00E+00	5.42E-08
3777	420950.61	3735067.35	1.50E-07	6.32E-07	2.77E-10	0.00E+00	7.82E-07	2.05E-08	8.65E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.97E-08	9.59E-12	0.00E+00	5.24E-08
3778	420941.53	3735071.15	1.44E-07	6.09E-07	2.67E-10	0.00E+00	7.53E-07	1.98E-08	8.32E-08	3.98E-11	0.00E+00	1.03E-07	1.21E-08	3.82E-08	9.23E-12	0.00E+00	5.04E-08
3779	420932.45	3735074.96	1.38E-07	5.84E-07	2.56E-10	0.00E+00	7.22E-07	1.90E-08	7.98E-08	3.82E-11	0.00E+00	9.88E-08	1.16E-08	3.67E-08	8.86E-12	0.00E+00	4.83E-08
3780	420923.37	3735078.76	1.32E-07	5.58E-07	2.45E-10	0.00E+00	6.90E-07	1.81E-08	7.63E-08	3.65E-11	0.00E+00	9.44E-08	1.11E-08	3.51E-08	8.46E-12	0.00E+00	4.62E-08
3781	420914.29	3735082.57	1.26E-07	5.31E-07	2.33E-10	0.00E+00	6.57E-07	1.72E-08	7.27E-08	3.47E-11	0.00E+00	8.99E-08	1.06E-08	3.34E-08	8.06E-12	0.00E+00	4.40E-08
3782	420905.22	3735086.37	1.19E-07	5.04E-07	2.21E-10	0.00E+00	6.24E-07	1.64E-08	6.90E-08	3.30E-11	0.00E+00	8.54E-08	1.00E-08	3.17E-08	7.65E-12	0.00E+00	4.17E-08
3783	420896.14	3735090.18	1.13E-07	4.77E-07	2.10E-10	0.00E+00	5.91E-07	1.55E-08	6.53E-08	3.12E-11	0.00E+00	8.08E-08	9.51E-09	3.00E-08	7.24E-12	0.00E+00	3.95E-08
3784	420887.06	3735093.98	1.07E-07	4.51E-07	1.98E-10	0.00E+00	5.58E-07	1.47E-08	6.17E-08	2.95E-11	0.00E+00	7.64E-08	8.99E-09	2.84E-08	6.85E-12	0.00E+00	3.74E-08
3785	420877.98	3735097.79	1.01E-07	4.25E-07	1.87E-10	0.00E+00	5.26E-07	1.38E-08	5.81E-08	2.78E-11	0.00E+00	7.20E-08	8.47E-09	2.67E-08	6.45E-12	0.00E+00	3.52E-08
3786	420868.9	3735101.6	9.45E-08	3.99E-07	1.75E-10	0.00E+00	4.94E-07	1.30E-08	5.46E-08	2.61E-11	0.00E+00	6.76E-08	7.95E-09	2.51E-08	6.06E-12	0.00E+00	3.30E-08
3787	420859.82	3735105.4	8.83E-08	3.73E-07	1.64E-10	0.00E+00	4.62E-07	1.21E-08	5.10E-08	2.44E-11	0.00E+00	6.31E-08	7.43E-09	2.34E-08	5.66E-12	0.00E+00	3.09E-08
3788	420850.74	3735109.21	8.24E-08	3.48E-07	1.53E-10	0.00E+00	4.31E-07	1.13E-08	4.76E-08	2.28E-11	0.00E+00	5.89E-08	6.94E-09	2.19E-08	5.28E-12	0.00E+00	2.88E-08
3789	420841.66	3735113.01	7.68E-08	3.24E-07	1.42E-10	0.00E+00	4.01E-07	1.05E-08	4.44E-08	2.12E-11	0.00E+00	5.49E-08	6.46E-09	2.04E-08	4.92E-12	0.00E+00	2.69E-08
3790	420832.58	3735116.82	7.17E-08	3.03E-07	1.33E-10	0.00E+00	3.75E-07	9.83E-09	4.14E-08	1.98E-11	0.00E+00	5.12E-08	6.03E-09	1.90E-08	4.59E-12	0.00E+00	2.51E-08
3791	420823.5	3735120.62	6.69E-08	2.82E-07	1.24E-10	0.00E+00	3.49E-07	9.16E-09	3.86E-08	1.84E-11	0.00E+00	4.78E-08	5.62E-09	1.77E-08	4.28E-12	0.00E+00	2.34E-08
3792	421369.04	3734606.79	6.92E-08	2.92E-07	1.28E-10	0.00E+00	3.61E-07	9.48E-09	3.99E-08	1.91E-11	0.00E+00	4.94E-08	5.82E-09	1.84E-08	4.43E-12	0.00E+00	2.42E-08
3793	421365.12	3734615.83	7.26E-08	3.06E-07	1.34E-10	0.00E+00	3.79E-07	9.95E-09	4.19E-08	2.00E-11	0.00E+00	5.19E-08	6.11E-09	1.93E-08	4.65E-12	0.00E+00	2.54E-08
3794	421361.21	3734624.87	7.62E-08	3.22E-07	1.41E-10	0.00E+00	3.98E-07	1.04E-08	4.40E-08	2.10E-11	0.00E+00	5.44E-08	6.41E-09	2.02E-08	4.88E-12	0.00E+00	2.66E-08
3795	421357.29	3734633.91	7.98E-08	3.37E-07	1.48E-10	0.00E+00	4.17E-07	1.09E-08	4.61E-08	2.20E-11	0.00E+00	5.70E-08	6.72E-09	2.12E-08	5.11E-12	0.00E+00	2.79E-08
3796	421353.37	3734642.94	8.35E-08	3.53E-07	1.55E-10	0.00E+00	4.36E-07	1.14E-08	4.82E-08	2.30E-11	0.00E+00	5.97E-08	7.02E-09	2.22E-08	5.35E-12	0.00E+00	2.92E-08
3797	421349.45	3734651.98	8.71E-08	3.68E-07	1.61E-10	0.00E+00	4.55E-07	1.19E-08	5.03E-08	2.40E-11	0.00E+00	6.23E-08	7.33E-09	2.31E-08	5.58E-12	0.00E+00	3.05E-08
3798	421345.53	3734661.02	9.09E-08	3.84E-07	1.68E-10	0.00E+00	4.75E-07	1.25E-08	5.25E-08	2.51E-11	0.00E+00	6.49E-08	7.64E-09	2.41E-08	5.82E-12	0.00E+00	3.18E-08
3799	421341.61	3734670.06	9.47E-08	4.00E-07	1.75E-10	0.00E+00	4.95E-07	1.30E-08	5.47E-08	2.61E-11	0.00E+00	6.77E-08	7.97E-09	2.51E-08	6.07E-12	0.00E+00	3.31E-08
3800	421337.69	3734679.1	9.86E-08	4.16E-07	1.83E-10	0.00E+00	5.15E-07	1.35E-08	5.69E-08	2.72E-11	0.00E+00	7.05E-08	8.30E-09	2.62E-08	6.32E-12	0.00E+00	3.45E-08
3801	421333.78	3734688.13	1.03E-07	4.33E-07	1.90E-10	0.00E+00	5.36E-07	1.41E-08	5.92E-08	2.83E-11	0.00E+00	7.33E-08	8.63E-09	2.72E-08	6.57E-12	0.00E+00	3.58E-08
3802	421329.86	3734697.17	1.06E-07	4.49E-07	1.97E-10	0.00E+00	5.56E-07	1.46E-08	6.14E-08	2.94E-11	0.00E+00	7.60E-08	8.95E-09	2.82E-08	6.81E-12	0.00E+00	3.72E-08
3803	421325.94	3734706.21	1.10E-07	4.64E-07	2.04E-10	0.00E+00	5.74E-07	1.51E-08	6.35E-08	3.03E-11	0.00E+00	7.86E-08	9.25E-09	2.92E-08	7.04E-12	0.00E+00	3.84E-08
3804	421322.02	3734715.25	1.13E-07	4.79E-07	2.10E-10	0.00E+00	5.92E-07	1.55E-08	6.55E-08	3.13E-11	0.00E+00	8.11E-08	9.54E-09	3.01E-08	7.26E-12	0.00E+00	3.96E-08
3805	421318.1	3734724.29	1.17E-07	4.93E-07	2.16E-10	0.00E+00	6.10E-07	1.60E-08	6.74E-08	3.22E-11	0.00E+00	8.35E-08	9.82E-09	3.10E-08	7.48E-12	0.00E+00	4.08E-08
3806	421314.18	3734733.32	1.20E-07	5.07E-07	2.22E-10	0.00E+00	6.27E-07	1.65E-08	6.93E-08	3.31E-11	0.00E+00	8.58E-08	1.01E-08	3.19E-08	7.69E-12	0.00E+00	4.20E-08
3807	421310.26	3734742.36	1.23E-07	5.20E-07	2.28E-10	0.00E+00	6.44E-07	1.69E-08	7.11E-08	3.40E-11	0.00E+00	8.80E-08	1.04E-08	3.27E-08	7.89E-12	0.00E+00	4.31E-08
3808	421306.35	3734751.4	1.26E-07	5.33E-07	2.34E-10	0.00E+00	6.59E-07	1.73E-08	7.28E-08	3.48E-11	0.00E+00	9.02E-08	1.06E-08	3.35E-08	8.08E-12	0.00E+00	4.41E-08
3809	421302.43	3734760.44	1.29E-07	5.44E-07	2.39E-10	0.00E+00	6.73E-07	1.77E-08	7.44E-08	3.56E-11	0.00E+00	9.21E-08	1.08E-08	3.42E-08	8.26E-12	0.00E+00	4.51E-08
3810	421275	3734823.71	1.47E-07	6.19E-07	2.71E-10	0.00E+00	7.65E-07	2.01E-08	8.46E-08	4.04E-11	0.00E+00	1.05E-07	1.23E-08	3.89E-08	9.39E-12	0.00E+00	5.12E-08
3811	421271.08	3734832.74	1.48E-07	6.25E-07	2.74E-10	0.00E+00	7.74E-07	2.03E-08	8.55E-08	4.09E-11	0.00E+00	1.06E-07	1.25E-08	3.93E-08	9.49E-12	0.00E+00	5.18E-08
3812	421267.16	3734841.78	1.50E-07	6.31E-07	2.77E-10	0.00E+00	7.81E-07	2.05E-08	8.63E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.97E-08	9.58E-12	0.00E+00	5.23E-08
3813	421263.24	3734850.82	1.51E-07	6.37E-07	2.79E-10	0.00E+00	7.88E-07	2.07E-08	8.70E-08	4.16E-11	0.00E+00	1.08E-07	1.27E-08	4.00E-08	9.66E-12	0.00E+00	5.27E-08
3814	421259.32	3734859.86	1.52E-07	6.41E-07	2.81E-10	0.00E+00	7.93E-07	2.08E-08	8.77E-08	4.19E-11	0.00E+00	1.09E-07	1.28E-08	4.03E-08	9.73E-12	0.00E+00	5.31E-08
3815	421255.41	3734868.9	1.53E-07	6.45E-07	2.83E-10	0.00E+00	7.98E-07	2.09E-08	8.82E-08	4.22E-11	0.00E+00	1.09E-07	1.29E-08	4.05E-08	9.78E-12	0.00E+00	5.34E-08
3816	421251.49	3734877.93	1.53E-07	6.48E-07	2.84E-10	0.00E+00	8.02E-07	2.10E-08	8.86E-08	4.23E-11	0.00E+00	1.10E-07	1.29E-08	4.07E-08	9.83E-12	0.00E+00	5.36E-08
3817	421247.57	3734886.97	1.54E-07	6.50E-07	2.85E-10	0.00E+00	8.04E-07	2.11E-08	8.89E-08	4.25E-11	0.00E+00	1.10E-07	1.30E-08	4.09E-08	9.86E-12	0.00E+00	5.38E-08
3818	421243.65	3734896.01	1.54E-07	6.52E-07	2.86E-10	0.00E+00	8.06E-07	2.12E-08	8.91E-08	4.26E-11	0.00E+00	1.10E-07	1.30E-08	4.10E-08	9.89E-12	0.00E+00	5.40E-08
3819	421239.73	3734905.05	1.55E-07	6.53E-07	2.86E-10	0.00E+00	8.07E-07	2.12E-08	8.92E-08	4.26E-11	0.00E+00	1.10E-07	1.30E-08	4.10E-08	9.90E-12	0.00E+00	5.40E-08
3820	421235.81	3734914.09	1.55E-07	6.53E-07	2.87E-10	0.00E+00	8.08E-07	2.12E-08	8.94E-08	4.27E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.91E-12	0.00E+00	5.41E-08
3821	421231.89	3734923.12	1.55E-07	6.54E-07	2.87E-10	0.00E+00	8.09E-07	2.12E-08	8.94E-08	4.27E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.92E-12	0.00E+00	5.42E-08
3822	421227.98	3734932.16	1.55E-07	6.54E-07	2.87E-10	0.00E+00	8.09E-07	2.12E-08	8.95E-08	4.28E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.93E-12	0.00E+00	5.42E-08
3823	421224.06	3734941.2	1.55E-07	6.54E-07	2.87E-10	0.00E+00	8.09E-07	2.12E-08	8.95E-08	4.28E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.93E-12	0.00E+00	5.42E-08
3824	421220.14	3734950.24	1.55E-07	6.54E-07	2.87E-10	0.00E+00	8.10E-07	2.12E-08	8.95E-08	4.28E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.93E-12	0.00E+00	5.42E-08
3825	421216.22	3734959.28	1.55E-07	6.54E-07	2.87E-10	0.00E+00	8.09E-07	2.12E-08	8.95E-08	4.28E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.92E-12	0.00E+00	5.42E-08
3826	421212.3	3734968.31	1.55E-07	6.53E-07	2.87E-10	0.00E+00	8.08E-07	2.12E-08	8.93E-08	4.27E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.91E-12	0.00E+00	5.41E-08
3827	421208.38	3734977.35	1.54E-07	6.52E-07	2.86E-10	0.00E+00	8.07E-07	2.12E-08	8.92E-08	4.26E-11	0.00E+00	1.10E-07	1.30E-08	4.10E-08	9.89E-12	0.00E+00	5.40E-08
3828	421204.46	3734986.39	1.54E-07	6.50E-07	2.85E-10	0.00E+00	8.04E-07	2.11E-08	8.89E-08	4.25E-11	0.00E+00	1.10E-07	1.30E-08	4.08E-08	9.86E-12	0.00E+00	5.38E-08
3829	421200.55	3734995.43	1.53E-07	6.47E-07	2.84E-10	0.00E+00	8.01E-07	2.10E-08	8.85E-08	4.23E-11	0.00E+00	1.10E-07	1.29E-08	4.07E-08	9.82E-12	0.00E+00	5.36E-08
3830	421187.54	3735008.27	1.55E-07	6.56E-07	2.88E-10	0.00E+00	8.11E-07	2.13E-08	8.97E-08	4.29E-11	0.00E+00	1.11E-07	1.31E-08	4.12E-08	9.95E-12	0.00E+00	5.43E-08
3831	421178.46	3735012.08	1.58E-07	6.66E-07	2.92E-10	0.00E+00	8.24E-07	2.16E-08	9.11E-08	4.35E-11	0.00E+00	1.13E-07	1.33E-08	4.19E-08	1.01E-11	0.00E+00	5.52E-08
3832	421169.37	3735015.89	1.60E-07	6.76E-07	2.97E-10	0.00E+00	8.37E-07	2.20E-08	9.25E-08	4.42E-11	0.00E+00	1.14E-07	1.35E-08	4.25E-08	1.03E-11	0.00E+00	5.60E-08
3833	421160.29	3735019.7	1.62E-07	6.86E-07	3.01E-10	0.00E+00	8.49E-07	2.23E-08	9.38E-08	4.48E-11	0.00E+00	1.16E-07	1.37E-08	4.31E-08	1.04E-11	0.00E+00	5.68E-08
3834	421151.2	3735023.51	1.65E-07	6.95E-07	3.05E-10	0.00E+00	8.60E-07	2.26E-08	9.50E-08	4.54E-11	0.00E+00	1.18E-07	1.38E-08	4.37E-08	1.05E-11	0.00E+00	5.75E-08
3835	421142.12	3735027.32	1.66E-07	7.03E-07	3.08E-10	0.00E+00	8.69E-07	2.28E-08	9.61E-08	4.59E-11	0.00E+00	1.19E-07	1.40E-08	4.42E-08	1.07E-11	0.00E+00	5.82E-08
3836	421133.03	3735031.12	1.68E-07	7.09E-07	3.11E-10	0.00E+00	8.77E-07	2.30E-08	9.69E-08	4.63E-11	0.00E+00	1.20E-07	1.41E-08	4.45E-08	1.08E-11	0.00E+00	5.87E-08
3837	421123.95	3735034.93	1.69E-07	7.13E-07	3.13E-10	0.00E+00	8.82E-07	2.32E-08	9.75E-08	4.66E-11	0.00E+00	1.21E-07	1.42E-08	4.48E-08	1.08E-11	0.00E+00	5.90E-08
3838	421087.6	3735050.16	1.69E-07	7.14E-07	3.13E-10	0.00E+00	8.84E-07	2.32E-08	9.77E-08	4.67E-11	0.00E+00	1.21E-07	1.42E-08	4.49E-08	1.08E-11	0.00E+00	5.91E-08
3839	421078.52	3735053.97	1.68E-07	7.11E-07	3.12E-10	0.00E+00	8.80E-07	2.31E-08	9.72E-08	4.65E-11	0.00E+00	1.20E-07	1.42E-08	4.47E-08	1.08E-11	0.00E+00	5.89E-08
3840	421069.43	3735057.78	1.67E-07	7.07E-07	3.10E-10	0.00E+00	8.75E-07	2.29E-08	9.67E-08	4.62E-11	0.00E+00	1.20E-07	1.41E-08	4.44E-08	1.07E-11	0.00E+00	5.85E-08
3841	421060.35	3735061.59	1.66E-07	7.02E-07	3.08E-10	0.00E+00	8.68E-07	2.28E-08	9.60E-08	4.59E-11	0.00E+00	1.19E-07	1.40E-08	4.41E-08	1.06E-11	0.00E+00	5.81E-08
3842	421051.26	3735065.4	1.65E-07	6.96E-07	3.05E-10	0.00E+00	8.61E-07	2.26E-08	9.51E-08	4.55E-11	0.00E+00	1.18E-07	1.39E-08	4.37E-08	1.06E-11	0.00E+00	5.76E-08
3843	421042.18	3735069.2	1.63E-07	6.88E-07	3.02E-10	0.00E+00	8.52E-07	2.24E-08	9.41E-08	4.50E-11	0.00E+00	1.17E-07	1.37E-08	4.33E-08	1.04E-11	0.00E+00	5.70E-08
3844	421033.09	3735073.01	1.61E-07	6.80E-07	2.98E-10	0.00E+00	8.41E-07	2.21E-08	9.29E-08	4.44E-11	0.00E+00	1.15E-07	1.35E-08	4.27E-08	1.03E-11	0.00E+00	5.63E-08
3845	421024.01	3735076.82	1.58E-07	6.69E-07	2.94E-10	0.00E+00	8.28E-07	2.17E-08	9.15E-08	4.37E-11	0.00E+00	1.13E-07	1.33E-08	4.21E-08	1.02E-11	0.00E+00	5.54E-08
3846	421014.92	3735080.63	1.56E-07	6.57E-07	2.88E-10	0.00E+00	8.12E-07	2.13E-08	8.98E-08	4.29E-11	0.00E+00	1.11E-07	1.31E-08	4.13E-08	9.96E-12	0.00E+00	5.44E-08
3847	421005.84	3735084.44	1.52E-07	6.42E-07	2.82E-10	0.00E+00	7.94E-07	2.08E-08	8.78E-08	4.20E-11	0.00E+00	1.09E-07	1.28E-08	4.03E-08	9.74E-12	0.00E+00	5.32E-08
3848	420996.75	3735088.24	1.48E-07	6.26E-07	2.75E-10	0.00E+00	7.75E-07	2.03E-08	8.56E-08	4.09E-11	0.00E+00	1.06E-07	1.25E-08	3.93E-08	9.50E-12	0.00E+00	5.18E-08
3849	420987.67	3735092.05	1.44E-07	6.09E-07	2.67E-10	0.00E+00	7.53E-07	1.98E-08	8.32E-08	3.98E-11	0.00E+00	1.03E-07	1.21E-08	3.83E-08	9.23E-12	0.00E+00	5.04E-08
3850	420978.58	3735095.86	1.40E-07	5.90E-07	2.59E-10	0.00E+00	7.30E-07	1.92E-08	8.07E-08	3.86E-11	0.00E+00	9.99E-08	1.18E-08	3.71E-08	8.95E-12	0.00E+00	4.88E-08
3851	420969.5	3735099.67	1.35E-07	5.70E-07	2.50E-10	0.00E+00	7.06E-07	1.85E-08	7.80E-08	3.73E-11	0.00E+00	9.65E-08	1.14E-08	3.58E-08	8.65E-12	0.00E+00	4.72E-08
3852	420960.41	3735103.48	1.30E-07	5.50E-07	2.41E-10	0.00E+00	6.80E-07	1.78E-08	7.52E-08	3.59E-11	0.00E+00	9.30E-08	1.10E-08	3.45E-08	8.34E-12	0.00E+00	4.55E-08
3853	420951.33	3735107.28	1.25E-07	5.29E-07	2.32E-10	0.00E+00	6.55E-07	1.72E-08	7.23E-08	3.46E-11	0.00E+00	8.96E-08	1.05E-08	3.33E-08	8.03E-12	0.00E+00	4.38E-08
3854	420942.24	3735111.09	1.20E-07	5.08E-07	2.23E-10	0.00E+00	6.28E-07	1.65E-08	6.94E-08	3.32E-11	0.00E+00	8.60E-08	1.01E-08	3.19E-08	7.70E-12	0.00E+00	4.20E-08
3855	420933.16	3735114.9	1.15E-07	4.86E-07	2.13E-10	0.00E+00	6.02E-07	1.58E-08	6.65E-08	3.18E-11	0.00E+00	8.23E-08	9.69E-09	3.06E-08	7.38E-12	0.00E+00	4.03E-08
3856	420924.07	3735118.71	1.10E-07	4.64E-07	2.04E-10	0.00E+00	5.74E-07	1.51E-08	6.34E-08	3.03E-11	0.00E+00	7.85E-08	9.24E-09	2.92E-08	7.04E-12	0.00E+00	3.84E-08
3857	420914.99	3735122.52	1.04E-07	4.41E-07	1.94E-10	0.00E+00	5.46E-07	1.43E-08	6.03E-08	2.88E-11	0.00E+00	7.47E-08	8.79E-09	2.77E-08	6.69E-12	0.00E+00	3.65E-08
3858	420905.9	3735126.33	9.91E-08	4.18E-07	1.84E-10	0.00E+00	5.18E-07	1.36E-08	5.72E-08	2.73E-11	0.00E+00	7.08E-08	8.34E-09	2.63E-08	6.35E-12	0.00E+00	3.46E-08
3859	420896.82	3735130.13	9.37E-08	3.96E-07	1.74E-10	0.00E+00	4.90E-07	1.28E-08	5.41E-08	2.59E-11	0.00E+00	6.70E-08	7.88E-09	2.49E-08	6.00E-12	0.00E+00	3.28E-08
3860	420887.73	3735133.94	8.82E-08	3.72E-07	1.63E-10	0.00E+00	4.61E-07	1.21E-08	5.09E-08	2.43E-11	0.00E+00	6.30E-08	7.42E-09	2.34E-08	5.65E-12	0.00E+00	3.08E-08

3861	420878.65	3735137.75	8.27E-08	3.49E-07	1.53E-10	0.00E+00	4.32E-07	1.13E-08	4.78E-08	2.28E-11	0.00E+00	5.91E-08	6.96E-09	2.20E-08	5.30E-12	0.00E+00	2.89E-08
3862	420869.56	3735141.56	7.74E-08	3.27E-07	1.43E-10	0.00E+00	4.05E-07	1.06E-08	4.47E-08	2.14E-11	0.00E+00	5.53E-08	6.51E-09	2.06E-08	4.96E-12	0.00E+00	2.71E-08
3863	420860.48	3735145.37	7.25E-08	3.06E-07	1.34E-10	0.00E+00	3.79E-07	9.93E-09	4.18E-08	2.00E-11	0.00E+00	5.18E-08	6.10E-09	1.92E-08	4.64E-12	0.00E+00	2.53E-08
3864	420851.39	3735149.17	6.76E-08	2.86E-07	1.25E-10	0.00E+00	3.53E-07	9.27E-09	3.91E-08	1.87E-11	0.00E+00	4.83E-08	5.69E-09	1.79E-08	4.33E-12	0.00E+00	2.36E-08
3865	420842.31	3735152.98	6.31E-08	2.66E-07	1.17E-10	0.00E+00	3.30E-07	8.65E-09	3.64E-08	1.74E-11	0.00E+00	4.51E-08	5.31E-09	1.67E-08	4.04E-12	0.00E+00	2.21E-08
3866	420787.79	3735175.83	4.20E-08	1.78E-07	7.79E-11	0.00E+00	2.20E-07	5.76E-09	2.43E-08	1.16E-11	0.00E+00	3.00E-08	3.54E-09	1.12E-08	2.69E-12	0.00E+00	1.47E-08
3867	420778.71	3735179.64	3.94E-08	1.66E-07	7.30E-11	0.00E+00	2.06E-07	5.40E-09	2.27E-08	1.09E-11	0.00E+00	2.82E-08	3.31E-09	1.05E-08	2.52E-12	0.00E+00	1.38E-08
3868	420769.62	3735183.45	3.68E-08	1.55E-07	6.81E-11	0.00E+00	1.92E-07	5.04E-09	2.12E-08	1.01E-11	0.00E+00	2.63E-08	3.09E-09	9.76E-09	2.36E-12	0.00E+00	1.29E-08
3869	420760.54	3735187.25	3.44E-08	1.45E-07	6.37E-11	0.00E+00	1.80E-07	4.71E-09	1.98E-08	9.48E-12	0.00E+00	2.46E-08	2.89E-09	9.12E-09	2.20E-12	0.00E+00	1.20E-08
3870	420751.45	3735191.06	3.22E-08	1.36E-07	5.96E-11	0.00E+00	1.68E-07	4.41E-09	1.86E-08	8.88E-12	0.00E+00	2.30E-08	2.71E-09	8.54E-09	2.06E-12	0.00E+00	1.12E-08
3871	421393.09	3734532.6	4.83E-08	2.04E-07	8.95E-11	0.00E+00	2.52E-07	6.62E-09	2.79E-08	1.33E-11	0.00E+00	3.45E-08	4.06E-09	1.28E-08	3.10E-12	0.00E+00	1.69E-08
3872	421393.35	3734522.61	4.64E-08	1.96E-07	8.61E-11	0.00E+00	2.43E-07	6.37E-09	2.68E-08	1.28E-11	0.00E+00	3.32E-08	3.91E-09	1.23E-08	2.98E-12	0.00E+00	1.62E-08
3873	421424.7	3734571.72	4.97E-08	2.10E-07	9.21E-11	0.00E+00	2.60E-07	6.81E-09	2.87E-08	1.37E-11	0.00E+00	3.55E-08	4.18E-09	1.32E-08	3.18E-12	0.00E+00	1.74E-08
3874	421420.78	3734580.76	5.20E-08	2.20E-07	9.64E-11	0.00E+00	2.72E-07	7.13E-09	3.00E-08	1.44E-11	0.00E+00	3.72E-08	4.38E-09	1.38E-08	3.33E-12	0.00E+00	1.82E-08
3875	421416.86	3734589.8	5.45E-08	2.30E-07	1.01E-10	0.00E+00	2.85E-07	7.47E-09	3.15E-08	1.50E-11	0.00E+00	3.90E-08	4.58E-09	1.45E-08	3.49E-12	0.00E+00	1.91E-08
3876	421412.94	3734598.85	5.71E-08	2.41E-07	1.06E-10	0.00E+00	2.98E-07	7.83E-09	3.30E-08	1.58E-11	0.00E+00	4.08E-08	4.80E-09	1.52E-08	3.66E-12	0.00E+00	2.00E-08
3877	421409.02	3734607.89	5.98E-08	2.52E-07	1.11E-10	0.00E+00	3.12E-07	8.20E-09	3.45E-08	1.65E-11	0.00E+00	4.27E-08	5.03E-09	1.59E-08	3.83E-12	0.00E+00	2.09E-08
3878	421405.09	3734616.93	6.25E-08	2.64E-07	1.16E-10	0.00E+00	3.27E-07	8.57E-09	3.61E-08	1.72E-11	0.00E+00	4.47E-08	5.26E-09	1.66E-08	4.00E-12	0.00E+00	2.18E-08
3879	421401.17	3734625.98	6.53E-08	2.76E-07	1.21E-10	0.00E+00	3.41E-07	8.96E-09	3.77E-08	1.80E-11	0.00E+00	4.67E-08	5.50E-09	1.73E-08	4.18E-12	0.00E+00	2.28E-08
3880	421397.25	3734635.02	6.83E-08	2.88E-07	1.26E-10	0.00E+00	3.57E-07	9.36E-09	3.94E-08	1.88E-11	0.00E+00	4.88E-08	5.74E-09	1.81E-08	4.37E-12	0.00E+00	2.39E-08
3881	421393.33	3734644.06	7.13E-08	3.01E-07	1.32E-10	0.00E+00	3.72E-07	9.77E-09	4.11E-08	1.97E-11	0.00E+00	5.09E-08	6.00E-09	1.89E-08	4.56E-12	0.00E+00	2.49E-08
3882	421365.89	3734707.37	9.32E-08	3.93E-07	1.73E-10	0.00E+00	4.87E-07	1.28E-08	5.38E-08	2.57E-11	0.00E+00	6.66E-08	7.84E-09	2.47E-08	5.97E-12	0.00E+00	3.26E-08
3883	421361.97	3734716.41	9.62E-08	4.06E-07	1.78E-10	0.00E+00	5.03E-07	1.32E-08	5.55E-08	2.65E-11	0.00E+00	6.87E-08	8.09E-09	2.55E-08	6.16E-12	0.00E+00	3.36E-08
3884	421358.05	3734725.45	9.92E-08	4.19E-07	1.84E-10	0.00E+00	5.18E-07	1.36E-08	5.73E-08	2.74E-11	0.00E+00	7.09E-08	8.34E-09	2.63E-08	6.35E-12	0.00E+00	3.47E-08
3885	421354.12	3734734.5	1.02E-07	4.31E-07	1.89E-10	0.00E+00	5.34E-07	1.40E-08	5.90E-08	2.82E-11	0.00E+00	7.30E-08	8.59E-09	2.71E-08	6.54E-12	0.00E+00	3.57E-08
3886	421350.2	3734743.54	1.05E-07	4.43E-07	1.95E-10	0.00E+00	5.49E-07	1.44E-08	6.06E-08	2.90E-11	0.00E+00	7.51E-08	8.84E-09	2.79E-08	6.73E-12	0.00E+00	3.67E-08
3887	421346.28	3734752.58	1.08E-07	4.55E-07	2.00E-10	0.00E+00	5.63E-07	1.48E-08	6.22E-08	2.97E-11	0.00E+00	7.70E-08	9.07E-09	2.86E-08	6.90E-12	0.00E+00	3.77E-08
3888	421342.36	3734761.63	1.09E-07	4.62E-07	2.03E-10	0.00E+00	5.71E-07	1.50E-08	6.31E-08	3.02E-11	0.00E+00	7.82E-08	9.20E-09	2.90E-08	7.01E-12	0.00E+00	3.82E-08
3889	421338.44	3734770.67	1.12E-07	4.74E-07	2.08E-10	0.00E+00	5.86E-07	1.54E-08	6.48E-08	3.10E-11	0.00E+00	8.02E-08	9.44E-09	2.98E-08	7.19E-12	0.00E+00	3.92E-08
3890	421334.52	3734779.71	1.15E-07	4.85E-07	2.13E-10	0.00E+00	6.00E-07	1.58E-08	6.64E-08	3.17E-11	0.00E+00	8.22E-08	9.67E-09	3.05E-08	7.36E-12	0.00E+00	4.02E-08
3891	421330.6	3734788.76	1.18E-07	4.97E-07	2.18E-10	0.00E+00	6.14E-07	1.61E-08	6.79E-08	3.24E-11	0.00E+00	8.40E-08	9.89E-09	3.12E-08	7.53E-12	0.00E+00	4.11E-08
3892	421326.68	3734797.8	1.20E-07	5.07E-07	2.22E-10	0.00E+00	6.27E-07	1.64E-08	6.93E-08	3.31E-11	0.00E+00	8.58E-08	1.01E-08	3.18E-08	7.69E-12	0.00E+00	4.19E-08
3893	421314.92	3734824.93	1.26E-07	5.33E-07	2.34E-10	0.00E+00	6.60E-07	1.73E-08	7.29E-08	3.48E-11	0.00E+00	9.03E-08	1.06E-08	3.35E-08	8.09E-12	0.00E+00	4.41E-08
3894	421311	3734833.97	1.28E-07	5.41E-07	2.38E-10	0.00E+00	6.70E-07	1.76E-08	7.40E-08	3.54E-11	0.00E+00	9.16E-08	1.08E-08	3.40E-08	8.21E-12	0.00E+00	4.48E-08
3895	421307.07	3734843.01	1.30E-07	5.49E-07	2.41E-10	0.00E+00	6.79E-07	1.78E-08	7.50E-08	3.59E-11	0.00E+00	9.29E-08	1.09E-08	3.45E-08	8.33E-12	0.00E+00	4.54E-08
3896	421303.15	3734852.06	1.31E-07	5.55E-07	2.44E-10	0.00E+00	6.87E-07	1.80E-08	7.59E-08	3.63E-11	0.00E+00	9.40E-08	1.11E-08	3.49E-08	8.42E-12	0.00E+00	4.60E-08
3897	421299.23	3734861.1	1.33E-07	5.60E-07	2.46E-10	0.00E+00	6.93E-07	1.82E-08	7.66E-08	3.66E-11	0.00E+00	9.48E-08	1.12E-08	3.52E-08	8.50E-12	0.00E+00	4.64E-08
3898	421295.31	3734870.14	1.34E-07	5.64E-07	2.48E-10	0.00E+00	6.98E-07	1.83E-08	7.71E-08	3.69E-11	0.00E+00	9.55E-08	1.12E-08	3.55E-08	8.56E-12	0.00E+00	4.67E-08
3899	421291.39	3734879.19	1.34E-07	5.67E-07	2.49E-10	0.00E+00	7.01E-07	1.84E-08	7.75E-08	3.71E-11	0.00E+00	9.60E-08	1.13E-08	3.56E-08	8.60E-12	0.00E+00	4.69E-08
3900	421287.47	3734888.23	1.35E-07	5.72E-07	2.51E-10	0.00E+00	7.07E-07	1.86E-08	7.82E-08	3.74E-11	0.00E+00	9.68E-08	1.14E-08	3.59E-08	8.67E-12	0.00E+00	4.73E-08
3901	421283.55	3734897.27	1.36E-07	5.76E-07	2.53E-10	0.00E+00	7.13E-07	1.87E-08	7.88E-08	3.76E-11	0.00E+00	9.75E-08	1.15E-08	3.62E-08	8.74E-12	0.00E+00	4.77E-08
3902	421279.63	3734906.32	1.37E-07	5.79E-07	2.54E-10	0.00E+00	7.17E-07	1.88E-08	7.92E-08	3.79E-11	0.00E+00	9.80E-08	1.15E-08	3.64E-08	8.79E-12	0.00E+00	4.80E-08
3903	421275.71	3734915.36	1.38E-07	5.82E-07	2.55E-10	0.00E+00	7.20E-07	1.89E-08	7.96E-08	3.80E-11	0.00E+00	9.85E-08	1.16E-08	3.66E-08	8.83E-12	0.00E+00	4.82E-08
3904	421271.79	3734924.4	1.39E-07	5.85E-07	2.57E-10	0.00E+00	7.24E-07	1.90E-08	8.00E-08	3.82E-11	0.00E+00	9.90E-08	1.17E-08	3.68E-08	8.87E-12	0.00E+00	4.84E-08
3905	421267.87	3734933.45	1.39E-07	5.87E-07	2.57E-10	0.00E+00	7.26E-07	1.90E-08	8.02E-08	3.83E-11	0.00E+00	9.93E-08	1.17E-08	3.69E-08	8.90E-12	0.00E+00	4.86E-08
3906	421263.95	3734942.49	1.39E-07	5.88E-07	2.58E-10	0.00E+00	7.27E-07	1.91E-08	8.03E-08	3.84E-11	0.00E+00	9.95E-08	1.17E-08	3.69E-08	8.91E-12	0.00E+00	4.86E-08
3907	421260.03	3734951.53	1.39E-07	5.87E-07	2.58E-10	0.00E+00	7.26E-07	1.91E-08	8.03E-08	3.84E-11	0.00E+00	9.94E-08	1.17E-08	3.69E-08	8.91E-12	0.00E+00	4.86E-08
3908	421256.1	3734960.58	1.39E-07	5.87E-07	2.57E-10	0.00E+00	7.26E-07	1.90E-08	8.02E-08	3.83E-11	0.00E+00	9.93E-08	1.17E-08	3.69E-08	8.90E-12	0.00E+00	4.86E-08
3909	421252.18	3734969.62	1.39E-07	5.86E-07	2.57E-10	0.00E+00	7.25E-07	1.90E-08	8.01E-08	3.83E-11	0.00E+00	9.92E-08	1.17E-08	3.68E-08	8.89E-12	0.00E+00	4.85E-08
3910	421248.26	3734978.66	1.39E-07	5.87E-07	2.57E-10	0.00E+00	7.26E-07	1.90E-08	8.02E-08	3.83E-11	0.00E+00	9.93E-08	1.17E-08	3.69E-08	8.90E-12	0.00E+00	4.86E-08
3911	421244.34	3734987.71	1.39E-07	5.87E-07	2.57E-10	0.00E+00	7.26E-07	1.90E-08	8.02E-08	3.83E-11	0.00E+00	9.93E-08	1.17E-08	3.69E-08	8.90E-12	0.00E+00	4.86E-08
3912	421240.42	3734996.75	1.39E-07	5.86E-07	2.57E-10	0.00E+00	7.26E-07	1.90E-08	8.02E-08	3.83E-11	0.00E+00	9.93E-08	1.17E-08	3.69E-08	8.90E-12	0.00E+00	4.86E-08
3913	421236.5	3735005.79	1.39E-07	5.85E-07	2.57E-10	0.00E+00	7.24E-07	1.90E-08	8.00E-08	3.82E-11	0.00E+00	9.90E-08	1.17E-08	3.68E-08	8.88E-12	0.00E+00	4.84E-08
3914	421232.58	3735014.84	1.38E-07	5.83E-07	2.56E-10	0.00E+00	7.21E-07	1.89E-08	7.97E-08	3.81E-11	0.00E+00	9.87E-08	1.16E-08	3.66E-08	8.84E-12	0.00E+00	4.83E-08
3915	421228.66	3735023.88	1.37E-07	5.80E-07	2.55E-10	0.00E+00	7.18E-07	1.88E-08	7.94E-08	3.79E-11	0.00E+00	9.83E-08	1.16E-08	3.65E-08	8.81E-12	0.00E+00	4.81E-08
3916	421215.65	3735036.73	1.39E-07	5.88E-07	2.58E-10	0.00E+00	7.28E-07	1.91E-08	8.04E-08	3.84E-11	0.00E+00	9.96E-08	1.17E-08	3.70E-08	8.92E-12	0.00E+00	4.87E-08
3917	421206.56	3735040.54	1.41E-07	5.97E-07	2.62E-10	0.00E+00	7.39E-07	1.94E-08	8.17E-08	3.90E-11	0.00E+00	1.01E-07	1.19E-08	3.75E-08	9.06E-12	0.00E+00	4.95E-08
3918	421197.47	3735044.35	1.43E-07	6.06E-07	2.66E-10	0.00E+00	7.49E-07	1.97E-08	8.28E-08	3.96E-11	0.00E+00	1.03E-07	1.21E-08	3.81E-08	9.19E-12	0.00E+00	5.01E-08
3919	421188.38	3735048.16	1.45E-07	6.13E-07	2.69E-10	0.00E+00	7.59E-07	1.99E-08	8.38E-08	4.01E-11	0.00E+00	1.04E-07	1.22E-08	3.85E-08	9.30E-12	0.00E+00	5.08E-08
3920	421179.29	3735051.97	1.47E-07	6.20E-07	2.72E-10	0.00E+00	7.67E-07	2.01E-08	8.48E-08	4.05E-11	0.00E+00	1.05E-07	1.24E-08	3.90E-08	9.41E-12	0.00E+00	5.13E-08
3921	421170.2	3735055.78	1.48E-07	6.26E-07	2.75E-10	0.00E+00	7.75E-07	2.03E-08	8.56E-08	4.09E-11	0.00E+00	1.06E-07	1.25E-08	3.94E-08	9.50E-12	0.00E+00	5.18E-08
3922	421088.38	3735090.08	1.50E-07	6.33E-07	2.78E-10	0.00E+00	7.83E-07	2.05E-08	8.65E-08	4.14E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.60E-12	0.00E+00	5.24E-08
3923	421079.29	3735093.89	1.49E-07	6.27E-07	2.75E-10	0.00E+00	7.76E-07	2.04E-08	8.58E-08	4.10E-11	0.00E+00	1.06E-07	1.25E-08	3.94E-08	9.52E-12	0.00E+00	5.19E-08
3924	421070.2	3735097.7	1.47E-07	6.22E-07	2.73E-10	0.00E+00	7.69E-07	2.02E-08	8.50E-08	4.06E-11	0.00E+00	1.05E-07	1.24E-08	3.91E-08	9.43E-12	0.00E+00	5.15E-08
3925	421061.11	3735101.51	1.46E-07	6.15E-07	2.70E-10	0.00E+00	7.61E-07	2.00E-08	8.41E-08	4.02E-11	0.00E+00	1.04E-07	1.23E-08	3.87E-08	9.33E-12	0.00E+00	5.09E-08
3926	421052.02	3735105.32	1.44E-07	6.07E-07	2.66E-10	0.00E+00	7.51E-07	1.97E-08	8.30E-08	3.97E-11	0.00E+00	1.03E-07	1.21E-08	3.82E-08	9.21E-12	0.00E+00	5.03E-08
3927	421042.93	3735109.13	1.42E-07	5.98E-07	2.63E-10	0.00E+00	7.40E-07	1.94E-08	8.18E-08	3.91E-11	0.00E+00	1.01E-07	1.19E-08	3.76E-08	9.08E-12	0.00E+00	4.95E-08
3928	421033.84	3735112.94	1.39E-07	5.88E-07	2.58E-10	0.00E+00	7.28E-07	1.91E-08	8.05E-08	3.85E-11	0.00E+00	9.96E-08	1.17E-08	3.70E-08	8.93E-12	0.00E+00	4.87E-08
3929	421024.75	3735116.75	1.37E-07	5.77E-07	2.53E-10	0.00E+00	7.14E-07	1.87E-08	7.89E-08	3.77E-11	0.00E+00	9.77E-08	1.15E-08	3.63E-08	8.75E-12	0.00E+00	4.78E-08
3930	421015.66	3735120.56	1.34E-07	5.64E-07	2.47E-10	0.00E+00	6.98E-07	1.83E-08	7.71E-08	3.69E-11	0.00E+00	9.55E-08	1.12E-08	3.54E-08	8.56E-12	0.00E+00	4.67E-08
3931	421006.57	3735124.37	1.30E-07	5.49E-07	2.41E-10	0.00E+00	6.79E-07	1.78E-08	7.50E-08	3.59E-11	0.00E+00	9.29E-08	1.09E-08	3.45E-08	8.33E-12	0.00E+00	4.54E-08
3932	420997.48	3735128.18	1.26E-07	5.33E-07	2.34E-10	0.00E+00	6.59E-07	1.73E-08	7.28E-08	3.48E-11	0.00E+00	9.01E-08	1.06E-08	3.35E-08	8.08E-12	0.00E+00	4.41E-08
3933	420988.39	3735131.99	1.22E-07	5.16E-07	2.26E-10	0.00E+00	6.38E-07	1.67E-08	7.05E-08	3.37E-11	0.00E+00	8.73E-08	1.03E-08	3.24E-08	7.82E-12	0.00E+00	4.27E-08
3934	420979.3	3735135.8	1.18E-07	4.98E-07	2.19E-10	0.00E+00	6.17E-07	1.62E-08	6.82E-08	3.26E-11	0.00E+00	8.44E-08	9.93E-09	3.13E-08	7.56E-12	0.00E+00	4.13E-08
3935	420970.21	3735139.61	1.14E-07	4.81E-07	2.11E-10	0.00E+00	5.95E-07	1.56E-08	6.58E-08	3.14E-11	0.00E+00	8.14E-08	9.58E-09	3.02E-08	7.30E-12	0.00E+00	3.98E-08
3936	420961.12	3735143.42	1.10E-07	4.64E-07	2.03E-10	0.00E+00	5.73E-07	1.50E-08	6.34E-08	3.03E-11	0.00E+00	7.85E-08	9.24E-09	2.91E-08	7.03E-12	0.00E+00	3.84E-08
3937	420952.03	3735147.23	1.05E-07	4.45E-07	1.95E-10	0.00E+00	5.51E-07	1.45E-08	6.09E-08	2.91E-11	0.00E+00	7.54E-08	8.87E-09	2.80E-08	6.76E-12	0.00E+00	3.69E-08
3938	420942.94	3735151.04	1.01E-07	4.27E-07	1.87E-10	0.00E+00	5.28E-07	1.39E-08	5.84E-08	2.79E-11	0.00E+00	7.22E-08	8.50E-09	2.68E-08	6.47E-12	0.00E+00	3.53E-08
3939	420933.85	3735154.85	9.65E-08	4.08E-07	1.79E-10	0.00E+00	5.04E-07	1.32E-08	5.57E-08	2.66E-11	0.00E+00	6.90E-08	8.12E-09	2.56E-08	6.18E-12	0.00E+00	3.37E-08
3940	420924.76	3735158.66	9.19E-08	3.88E-07	1.70E-10	0.00E+00	4.80E-07	1.26E-08	5.30E-08	2.54E-11	0.00E+00	6.57E-08	7.73E-09	2.44E-08	5.89E-12	0.00E+00	3.21E-08
3941	420915.67	3735162.47	8.73E-08	3.68E-07	1.62E-10	0.00E+00	4.56E-07	1.20E-08	5.04E-08	2.41E-11	0.00E+00	6.24E-08	7.34E-09	2.32E-08	5.59E-12	0.00E+00	3.05E-08
3942	420906.58	3735166.28	8.27E-08	3.49E-07	1.53E-10	0.00E+00	4.32E-07	1.13E-08	4.78E-08	2.28E-11	0.00E+00	5.91E-08	6.96E-09	2.20E-08	5.30E-12	0.00E+00	2.89E-08
3943	420897.48	3735170.09	7.82E-08	3.30E-07	1.45E-10	0.00E+00	4.08E-07	1.07E-08	4.51E-08	2.16E-11	0.00E+00	5.59E-08	6.58E-09	2.07E-08	5.01E-12	0.00E+00	2.73E-08
3944	420888.39	3735173.9	7.34E-08	3.10E-07	1.36E-10	0.00E+00	3.84E-07	1.01E-08	4.24E-08	2.03E-11	0.00E+00	5.25E-08	6.18E-09	1.95E-08	4.70E-12	0.00E+00	2.57E-08
3945	420833.85	3735196.76	4.96E-08	2.10E-07	9.20E-11	0.00E+00	2.59E-07	6.81E-09	2.87E-08	1.37E-11	0.00E+00	3.55E-08	4.18E-09	1.32E-08	3.18E-12	0.00E+00	1.74E-08
3946	420824.76	3735200.57	4.64E-08	1.96E-07	8.60E-11	0.00E+00	2.42E-07	6.36E-09	2.68E-08	1.28E-11	0.00E+00	3.32E-08	3.90E-09	1.23E-08	2.97E-12	0.00E+00	1.62E-08
3947	420815.67	3735204.38	4.34E-08	1.83E-07	8.03E-11	0.00E+00	2.26E-07	5.94E-09	2.50E-08	1.20E-11	0.00E+00	3.10E-08	3.65E-09	1.15E-08	2.78E-12	0.00E+00	1.52E-08
3948	420806.58	3735208.19	4.05E-08	1.71E-07	7.51E-11	0.00E+00	2.12E-07	5.55E-09	2.34E-08	1.12E-11	0.00E+00	2.90E-08	3.41E-09	1.08E-08	2.60E-12	0.00E+00	1.42E-08
3949	420797.49	3735212	3.79E-08	1.60E-07	7.03E-11	0.00E+00	1.98E-07	5.20E-09	2.19E-08	1.05E-11	0.00E+00	2.71E-08	3.19E-09	1.01E-08	2.43E-12	0.00E+00	1.33E-08
3950	420788.4	3735215.82	3.55E-08	1.50E-07	6.58E-11	0.00E+00	1.86E-07	4.87E-09	2.05E-08	9.80E-12	0.00E+00	2.54E-08	2.99E-09	9.42E-09	2.27E-12	0.00E+00	1.24E-08
3951	420779.31	3735219.63	3.33E-08	1.40E-07	6.16E-11	0.00E+00	1.74E-07	4.56E-09	1.92E-08	9.18E-12	0.00E+00	2.38E-08	2.80E-09	8.83E-09	2.13E-12	0.00E+00	1.16E-08
3952	420770.22	3735223.44	3.12E-08	1.32E-07	5.79E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.62E-12	0.00E+00	2.23E-08	2.63E-09	8.29E-09	2.00E-12	0.00E+00	1.09E-08

3953	420761.13	3735227.25	2.93E-08	1.24E-07	5.43E-11	0.00E+00	1.53E-07	4.02E-09	1.69E-08	8.09E-12	0.00E+00	2.09E-08	2.47E-09	7.78E-09	1.88E-12	0.00E+00	1.02E-08
3954	420752.04	3735231.06	2.75E-08	1.16E-07	5.10E-11	0.00E+00	1.44E-07	3.77E-09	1.59E-08	7.59E-12	0.00E+00	1.97E-08	2.31E-09	7.30E-09	1.76E-12	0.00E+00	9.61E-09
3955	421433.07	3734533.66	4.18E-08	1.76E-07	7.74E-11	0.00E+00	2.18E-07	5.73E-09	2.41E-08	1.15E-11	0.00E+00	2.99E-08	3.51E-09	1.11E-08	2.68E-12	0.00E+00	1.46E-08
3956	421433.34	3734523.68	4.00E-08	1.69E-07	7.42E-11	0.00E+00	2.09E-07	5.49E-09	2.31E-08	1.10E-11	0.00E+00	2.86E-08	3.37E-09	1.06E-08	2.56E-12	0.00E+00	1.40E-08
3957	420743.32	3734467.82	1.87E-05	7.90E-05	3.47E-08	0.00E+00	9.78E-05	2.57E-06	1.08E-05	5.16E-09	0.00E+00	1.34E-05	1.57E-06	4.97E-06	1.20E-09	0.00E+00	6.54E-06
3958	420743.26	3734458.54	1.58E-05	6.66E-05	2.92E-08	0.00E+00	8.24E-05	2.16E-06	9.10E-06	4.35E-09	0.00E+00	1.13E-05	1.33E-06	4.18E-06	1.01E-09	0.00E+00	5.51E-06
3959	420743.19	3734449.27	1.21E-05	5.11E-05	2.24E-08	0.00E+00	6.32E-05	1.66E-06	6.99E-06	3.34E-09	0.00E+00	8.65E-06	1.02E-06	3.21E-06	7.75E-10	0.00E+00	4.23E-06
3960	420743.12	3734439.99	8.35E-06	3.52E-05	1.55E-08	0.00E+00	4.36E-05	1.14E-06	4.82E-06	2.30E-09	0.00E+00	5.97E-06	7.02E-07	2.21E-06	5.35E-10	0.00E+00	2.92E-06
3961	420743.06	3734430.72	5.25E-06	2.22E-05	9.72E-09	0.00E+00	2.74E-05	7.19E-07	3.03E-06	1.45E-09	0.00E+00	3.75E-06	4.42E-07	1.39E-06	3.36E-10	0.00E+00	1.83E-06
3962	420742.99	3734421.44	3.31E-06	1.40E-05	6.13E-09	0.00E+00	1.73E-05	4.54E-07	1.91E-06	9.14E-10	0.00E+00	2.37E-06	2.79E-07	8.79E-07	2.12E-10	0.00E+00	1.16E-06
3963	420742.92	3734412.17	2.23E-06	9.41E-06	4.13E-09	0.00E+00	1.16E-05	3.06E-07	1.29E-06	6.15E-10	0.00E+00	1.59E-06	1.88E-07	5.91E-07	1.43E-10	0.00E+00	7.79E-07
3964	420742.86	3734402.89	1.59E-06	6.72E-06	2.95E-09	0.00E+00	8.32E-06	2.18E-07	9.20E-07	4.39E-10	0.00E+00	1.14E-06	1.34E-07	4.23E-07	1.02E-10	0.00E+00	5.57E-07
3965	420753.32	3734467.75	1.27E-05	5.37E-05	2.36E-08	0.00E+00	6.65E-05	1.74E-06	7.35E-06	3.51E-09	0.00E+00	9.09E-06	1.07E-06	3.38E-06	8.15E-10	0.00E+00	4.45E-06
3966	420753.26	3734458.47	1.05E-05	4.45E-05	1.95E-08	0.00E+00	5.51E-05	1.45E-06	6.09E-06	2.91E-09	0.00E+00	7.54E-06	8.87E-07	2.80E-06	6.76E-10	0.00E+00	3.69E-06
3967	420753.19	3734449.2	8.14E-06	3.44E-05	1.51E-08	0.00E+00	4.25E-05	1.12E-06	4.70E-06	2.25E-09	0.00E+00	5.82E-06	6.85E-07	2.16E-06	5.21E-10	0.00E+00	2.85E-06
3968	420753.12	3734439.92	5.83E-06	2.46E-05	1.08E-08	0.00E+00	3.05E-05	8.00E-07	3.37E-06	1.61E-09	0.00E+00	4.17E-06	4.91E-07	1.55E-06	3.74E-10	0.00E+00	2.04E-06
3969	420753.06	3734430.65	3.96E-06	1.67E-05	7.33E-09	0.00E+00	2.07E-05	5.42E-07	2.28E-06	1.09E-09	0.00E+00	2.83E-06	3.33E-07	1.05E-06	2.53E-10	0.00E+00	1.38E-06
3970	420752.99	3734421.37	2.68E-06	1.13E-05	4.97E-09	0.00E+00	1.40E-05	3.68E-07	1.55E-06	7.41E-10	0.00E+00	1.92E-06	2.26E-07	7.13E-07	1.72E-10	0.00E+00	9.39E-07
3971	420752.92	3734412.1	1.89E-06	8.00E-06	3.51E-09	0.00E+00	9.89E-06	2.60E-07	1.09E-06	5.23E-10	0.00E+00	1.35E-06	1.59E-07	5.03E-07	1.21E-10	0.00E+00	6.62E-07
3972	420752.86	3734402.82	1.40E-06	5.91E-06	2.59E-09	0.00E+00	7.31E-06	1.92E-07	8.08E-07	3.86E-10	0.00E+00	1.00E-06	1.18E-07	3.71E-07	8.97E-11	0.00E+00	4.89E-07
3973	420752.79	3734393.55	1.07E-06	4.51E-06	1.98E-09	0.00E+00	5.58E-06	1.46E-07	6.16E-07	2.95E-10	0.00E+00	7.63E-07	8.98E-08	2.83E-07	6.84E-11	0.00E+00	3.73E-07
3974	420763.12	3734439.85	4.30E-06	1.81E-05	7.96E-09	0.00E+00	2.24E-05	5.89E-07	2.48E-06	1.19E-09	0.00E+00	3.07E-06	3.61E-07	1.14E-06	2.75E-10	0.00E+00	1.50E-06
3975	420763.06	3734430.57	3.08E-06	1.30E-05	5.70E-09	0.00E+00	1.61E-05	4.22E-07	1.78E-06	8.49E-10	0.00E+00	2.20E-06	2.59E-07	8.16E-07	1.97E-10	0.00E+00	1.07E-06
3976	420762.99	3734421.3	2.20E-06	9.30E-06	4.08E-09	0.00E+00	1.15E-05	3.02E-07	1.27E-06	6.08E-10	0.00E+00	1.57E-06	1.85E-07	5.84E-07	1.41E-10	0.00E+00	7.70E-07
3977	420762.92	3734412.02	1.61E-06	6.82E-06	2.99E-09	0.00E+00	8.44E-06	2.21E-07	9.32E-07	4.46E-10	0.00E+00	1.15E-06	1.36E-07	4.28E-07	1.03E-10	0.00E+00	5.64E-07
3978	420762.86	3734402.75	1.23E-06	5.18E-06	2.27E-09	0.00E+00	6.41E-06	1.68E-07	7.09E-07	3.39E-10	0.00E+00	8.77E-07	1.03E-07	3.26E-07	7.86E-11	0.00E+00	4.29E-07
3979	420762.79	3734393.47	9.60E-07	4.05E-06	1.78E-09	0.00E+00	5.02E-06	1.32E-07	5.54E-07	2.65E-10	0.00E+00	6.86E-07	8.08E-08	2.55E-07	6.15E-11	0.00E+00	3.36E-07
3980	420772.79	3734393.4	8.59E-07	3.63E-06	1.59E-09	0.00E+00	4.49E-06	1.18E-07	4.96E-07	2.37E-10	0.00E+00	6.14E-07	7.23E-08	2.28E-07	5.51E-11	0.00E+00	3.00E-07
3981	420793.52	3734495.28	5.69E-06	2.40E-05	1.05E-08	0.00E+00	2.97E-05	7.80E-07	3.29E-06	1.57E-09	0.00E+00	4.07E-06	4.79E-07	1.51E-06	3.65E-10	0.00E+00	1.99E-06
3982	420793.46	3734486.01	5.07E-06	2.14E-05	9.39E-09	0.00E+00	2.65E-05	6.95E-07	2.93E-06	1.40E-09	0.00E+00	3.62E-06	4.27E-07	1.35E-06	3.25E-10	0.00E+00	1.77E-06
3983	420803.52	3734495.21	4.49E-06	1.90E-05	8.33E-09	0.00E+00	2.35E-05	6.16E-07	2.59E-06	1.24E-09	0.00E+00	3.21E-06	3.78E-07	1.19E-06	2.88E-10	0.00E+00	1.57E-06
3984	420803.45	3734485.94	3.98E-06	1.68E-05	7.38E-09	0.00E+00	2.08E-05	5.46E-07	2.30E-06	1.10E-09	0.00E+00	2.85E-06	3.35E-07	1.06E-06	2.55E-10	0.00E+00	1.39E-06
3985	420803.39	3734476.66	3.50E-06	1.48E-05	6.49E-09	0.00E+00	1.83E-05	4.80E-07	2.02E-06	9.66E-10	0.00E+00	2.50E-06	2.95E-07	9.29E-07	2.24E-10	0.00E+00	1.22E-06
3986	420803.32	3734467.39	3.00E-06	1.27E-05	5.56E-09	0.00E+00	1.57E-05	4.11E-07	1.73E-06	8.28E-10	0.00E+00	2.14E-06	2.52E-07	7.96E-07	1.92E-10	0.00E+00	1.05E-06
3987	420803.25	3734458.11	2.52E-06	1.07E-05	4.67E-09	0.00E+00	1.32E-05	3.46E-07	1.46E-06	6.96E-10	0.00E+00	1.80E-06	2.12E-07	6.69E-07	1.62E-10	0.00E+00	8.82E-07
3988	420803.19	3734448.84	2.08E-06	8.80E-06	3.86E-09	0.00E+00	1.09E-05	2.86E-07	1.20E-06	5.75E-10	0.00E+00	1.49E-06	1.75E-07	5.53E-07	1.33E-10	0.00E+00	7.28E-07
3989	420803.12	3734439.56	1.69E-06	7.15E-06	3.14E-09	0.00E+00	8.85E-06	2.32E-07	9.78E-07	4.68E-10	0.00E+00	1.21E-06	1.43E-07	4.50E-07	1.09E-10	0.00E+00	5.92E-07
3990	420803.05	3734430.29	1.37E-06	5.77E-06	2.53E-09	0.00E+00	7.14E-06	1.87E-07	7.89E-07	3.77E-10	0.00E+00	9.77E-07	1.15E-07	3.63E-07	8.75E-11	0.00E+00	4.78E-07
3991	420802.99	3734421.01	1.10E-06	4.65E-06	2.04E-09	0.00E+00	5.75E-06	1.51E-07	6.36E-07	3.04E-10	0.00E+00	7.87E-07	9.27E-08	2.92E-07	7.06E-11	0.00E+00	3.85E-07
3992	420802.92	3734411.74	8.96E-07	3.78E-06	1.66E-09	0.00E+00	4.68E-06	1.23E-07	5.17E-07	2.47E-10	0.00E+00	6.40E-07	7.54E-08	2.38E-07	5.74E-11	0.00E+00	3.13E-07
3993	420813.52	3734495.14	3.59E-06	1.52E-05	6.65E-09	0.00E+00	1.88E-05	4.92E-07	2.07E-06	9.91E-10	0.00E+00	2.57E-06	3.02E-07	9.53E-07	2.30E-10	0.00E+00	1.26E-06
3994	420813.45	3734485.86	3.19E-06	1.35E-05	5.91E-09	0.00E+00	1.67E-05	4.37E-07	1.84E-06	8.79E-10	0.00E+00	2.28E-06	2.68E-07	8.46E-07	2.04E-10	0.00E+00	1.11E-06
3995	420813.39	3734476.59	2.81E-06	1.19E-05	5.21E-09	0.00E+00	1.47E-05	3.86E-07	1.62E-06	7.76E-10	0.00E+00	2.01E-06	2.37E-07	7.46E-07	1.80E-10	0.00E+00	9.83E-07
3996	420813.32	3734467.31	2.43E-06	1.03E-05	4.50E-09	0.00E+00	1.27E-05	3.33E-07	1.40E-06	6.70E-10	0.00E+00	1.74E-06	2.04E-07	6.45E-07	1.56E-10	0.00E+00	8.49E-07
3997	420813.25	3734458.04	2.06E-06	8.68E-06	3.81E-09	0.00E+00	1.07E-05	2.82E-07	1.19E-06	5.67E-10	0.00E+00	1.47E-06	1.73E-07	5.46E-07	1.32E-10	0.00E+00	7.19E-07
3998	420813.19	3734448.76	1.72E-06	7.25E-06	3.18E-09	0.00E+00	8.97E-06	2.35E-07	9.91E-07	4.74E-10	0.00E+00	1.23E-06	1.44E-07	4.55E-07	1.10E-10	0.00E+00	6.00E-07
3999	420813.12	3734439.49	1.42E-06	5.98E-06	2.62E-09	0.00E+00	7.40E-06	1.94E-07	8.18E-07	3.91E-10	0.00E+00	1.01E-06	1.19E-07	3.76E-07	9.07E-11	0.00E+00	4.95E-07
4000	420813.05	3734430.21	1.16E-06	4.90E-06	2.15E-09	0.00E+00	6.07E-06	1.59E-07	6.71E-07	3.20E-10	0.00E+00	8.30E-07	9.77E-08	3.08E-07	7.44E-11	0.00E+00	4.06E-07
4001	420812.99	3734420.94	9.52E-07	4.02E-06	1.76E-09	0.00E+00	4.98E-06	1.31E-07	5.50E-07	2.63E-10	0.00E+00	6.81E-07	8.01E-08	2.53E-07	6.10E-11	0.00E+00	3.33E-07
4002	420812.92	3734411.66	7.87E-07	3.32E-06	1.46E-09	0.00E+00	4.11E-06	1.08E-07	4.54E-07	2.17E-10	0.00E+00	5.62E-07	6.62E-08	2.09E-07	5.04E-11	0.00E+00	2.75E-07
4003	420812.85	3734402.39	6.58E-07	2.78E-06	1.22E-09	0.00E+00	3.44E-06	9.01E-08	3.80E-07	1.81E-10	0.00E+00	4.70E-07	5.53E-08	1.74E-07	4.21E-11	0.00E+00	2.30E-07
4004	420823.52	3734495.07	2.94E-06	1.24E-05	5.44E-09	0.00E+00	1.53E-05	4.03E-07	1.70E-06	8.10E-10	0.00E+00	2.10E-06	2.47E-07	7.79E-07	1.88E-10	0.00E+00	1.03E-06
4005	420823.45	3734485.79	2.61E-06	1.10E-05	4.83E-09	0.00E+00	1.36E-05	3.57E-07	1.50E-06	7.19E-10	0.00E+00	1.86E-06	2.19E-07	6.92E-07	1.67E-10	0.00E+00	9.11E-07
4006	420823.39	3734476.52	2.30E-06	9.69E-06	4.25E-09	0.00E+00	1.20E-05	3.15E-07	1.33E-06	6.34E-10	0.00E+00	1.64E-06	1.93E-07	6.09E-07	1.47E-10	0.00E+00	8.03E-07
4007	420823.32	3734467.24	2.00E-06	8.42E-06	3.70E-09	0.00E+00	1.04E-05	2.74E-07	1.15E-06	5.51E-10	0.00E+00	1.43E-06	1.68E-07	5.29E-07	1.28E-10	0.00E+00	6.97E-07
4008	420823.25	3734457.97	1.71E-06	7.20E-06	3.16E-09	0.00E+00	8.91E-06	2.34E-07	9.85E-07	4.71E-10	0.00E+00	1.22E-06	1.44E-07	4.53E-07	1.09E-10	0.00E+00	5.96E-07
4009	420823.19	3734448.69	1.44E-06	6.07E-06	2.66E-09	0.00E+00	7.51E-06	1.97E-07	8.30E-07	3.96E-10	0.00E+00	1.03E-06	1.21E-07	3.81E-07	9.20E-11	0.00E+00	5.02E-07
4010	420823.12	3734439.42	1.20E-06	5.07E-06	2.23E-09	0.00E+00	6.27E-06	1.65E-07	6.93E-07	3.31E-10	0.00E+00	8.58E-07	1.01E-07	3.19E-07	7.69E-11	0.00E+00	4.20E-07
4011	420823.05	3734430.14	9.99E-07	4.22E-06	1.85E-09	0.00E+00	5.22E-06	1.37E-07	5.77E-07	2.76E-10	0.00E+00	7.14E-07	8.40E-08	2.65E-07	6.40E-11	0.00E+00	3.49E-07
4012	420822.99	3734420.87	8.31E-07	3.51E-06	1.54E-09	0.00E+00	4.34E-06	1.14E-07	4.80E-07	2.29E-10	0.00E+00	5.94E-07	6.99E-08	2.20E-07	5.32E-11	0.00E+00	2.90E-07
4013	420822.92	3734411.59	6.95E-07	2.94E-06	1.29E-09	0.00E+00	3.63E-06	9.53E-08	4.01E-07	1.92E-10	0.00E+00	4.97E-07	5.85E-08	1.85E-07	4.45E-11	0.00E+00	2.43E-07
4014	420822.85	3734402.32	5.88E-07	2.48E-06	1.09E-09	0.00E+00	3.07E-06	8.06E-08	3.39E-07	1.62E-10	0.00E+00	4.20E-07	4.95E-08	1.56E-07	3.77E-11	0.00E+00	2.06E-07
4015	420833.52	3734495	2.43E-06	1.03E-05	4.51E-09	0.00E+00	1.27E-05	3.34E-07	1.41E-06	6.72E-10	0.00E+00	1.74E-06	2.05E-07	6.46E-07	1.56E-10	0.00E+00	8.51E-07
4016	420833.45	3734485.72	2.16E-06	9.13E-06	4.00E-09	0.00E+00	1.13E-05	2.96E-07	1.25E-06	5.96E-10	0.00E+00	1.54E-06	1.82E-07	5.74E-07	1.38E-10	0.00E+00	7.56E-07
4017	420833.39	3734476.45	1.90E-06	8.03E-06	3.53E-09	0.00E+00	9.94E-06	2.61E-07	1.10E-06	5.25E-10	0.00E+00	1.36E-06	1.60E-07	5.05E-07	1.22E-10	0.00E+00	6.65E-07
4018	420833.32	3734467.17	1.65E-06	6.98E-06	3.06E-09	0.00E+00	8.64E-06	2.27E-07	9.55E-07	4.56E-10	0.00E+00	1.18E-06	1.39E-07	4.39E-07	1.06E-10	0.00E+00	5.78E-07
4019	420833.25	3734457.9	1.43E-06	6.03E-06	2.64E-09	0.00E+00	7.46E-06	1.96E-07	8.24E-07	3.94E-10	0.00E+00	1.02E-06	1.20E-07	3.79E-07	9.14E-11	0.00E+00	4.99E-07
4020	420833.19	3734448.62	1.22E-06	5.15E-06	2.26E-09	0.00E+00	6.37E-06	1.67E-07	7.04E-07	3.37E-10	0.00E+00	8.72E-07	1.03E-07	3.24E-07	7.81E-11	0.00E+00	4.26E-07
4021	420833.12	3734439.35	1.03E-06	4.35E-06	1.91E-09	0.00E+00	5.38E-06	1.41E-07	5.95E-07	2.84E-10	0.00E+00	7.37E-07	8.67E-08	2.74E-07	6.60E-11	0.00E+00	3.60E-07
4022	420833.05	3734430.07	8.68E-07	3.66E-06	1.61E-09	0.00E+00	4.53E-06	1.19E-07	5.01E-07	2.39E-10	0.00E+00	6.20E-07	7.30E-08	2.30E-07	5.56E-11	0.00E+00	3.03E-07
4023	420832.99	3734420.8	7.30E-07	3.08E-06	1.35E-09	0.00E+00	3.82E-06	1.00E-07	4.22E-07	2.02E-10	0.00E+00	5.22E-07	6.15E-08	1.94E-07	4.68E-11	0.00E+00	2.55E-07
4024	420832.92	3734411.52	6.18E-07	2.61E-06	1.15E-09	0.00E+00	3.23E-06	8.47E-08	3.57E-07	1.71E-10	0.00E+00	4.42E-07	5.20E-08	1.64E-07	3.96E-11	0.00E+00	2.16E-07
4025	420893.52	3734494.56	9.89E-07	4.17E-06	1.83E-09	0.00E+00	5.17E-06	1.36E-07	5.71E-07	2.73E-10	0.00E+00	7.07E-07	8.32E-08	2.62E-07	6.33E-11	0.00E+00	3.46E-07
4026	420893.45	3734485.29	8.94E-07	3.78E-06	1.66E-09	0.00E+00	4.67E-06	1.23E-07	5.16E-07	2.47E-10	0.00E+00	6.39E-07	7.52E-08	2.37E-07	5.73E-11	0.00E+00	3.13E-07
4027	420893.39	3734476.01	8.02E-07	3.39E-06	1.49E-09	0.00E+00	4.19E-06	1.10E-07	4.63E-07	2.21E-10	0.00E+00	5.73E-07	6.74E-08	2.13E-07	5.14E-11	0.00E+00	2.80E-07
4028	420893.32	3734466.74	7.14E-07	3.01E-06	1.32E-09	0.00E+00	3.73E-06	9.79E-08	4.12E-07	1.97E-10	0.00E+00	5.10E-07	6.01E-08	1.89E-07	4.57E-11	0.00E+00	2.50E-07
4029	420893.12	3734438.91	4.91E-07	2.07E-06	9.09E-10	0.00E+00	2.56E-06	6.72E-08	2.83E-07	1.35E-10	0.00E+00	3.51E-07	4.13E-08	1.30E-07	3.14E-11	0.00E+00	1.71E-07
4030	420893.05	3734429.64	4.32E-07	1.82E-06	8.00E-10	0.00E+00	2.25E-06	5.92E-08	2.49E-07	1.19E-10	0.00E+00	3.09E-07	3.63E-08	1.15E-07	2.76E-11	0.00E+00	1.51E-07
4031	420892.99	3734420.36	3.81E-07	1.61E-06	7.06E-10	0.00E+00	1.99E-06	5.22E-08	2.20E-07	1.05E-10	0.00E+00	2.72E-07	3.21E-08	1.01E-07	2.44E-11	0.00E+00	1.33E-07
4032	420892.92	3734411.09	3.38E-07	1.43E-06	6.26E-10	0.00E+00	1.76E-06	4.63E-08	1.95E-07	9.32E-11	0.00E+00	2.41E-07	2.84E-08	8.96E-08	2.16E-11	0.00E+00	1.18E-07
4033	420892.85	3734401.81	3.01E-07	1.27E-06	5.57E-10	0.00E+00	1.57E-06	4.12E-08	1.74E-07	8.30E-11	0.00E+00	2.15E-07	2.53E-08	7.98E-08	1.93E-11	0.00E+00	1.05E-07
4034	420892.79	3734392.54	2.69E-07	1.14E-06	4.99E-10	0.00E+00	1.41E-06	3.69E-08	1.55E-07	7.43E-11	0.00E+00	1.92E-07	2.26E-08	7.14E-08	1.72E-11	0.00E+00	9.41E-08
4035	420913.52	3734494.42	7.72E-07	3.26E-06	1.43E-09	0.00E+00	4.03E-06	1.06E-07	4.46E-07	2.13E-10	0.00E+00	5.52E-07	6.50E-08	2.05E-07	4.95E-11	0.00E+00	2.70E-07
4036	420913.45	3734485.15	7.02E-07	2.96E-06	1.30E-09	0.00E+00	3.67E-06	9.62E-08	4.05E-07	1.94E-10	0.00E+00	5.01E-07	5.90E-08	1.86E-07	4.49E-11	0.00E+00	2.45E-07
4037	420913.39	3734475.87	6.33E-07	2.67E-06	1.17E-09	0.00E+00	3.31E-06	8.67E-08	3.65E-07	1.75E-10	0.00E+00	4.52E-07	5.32E-08	1.68E-07	4.05E-11	0.00E+00	2.21E-07
4038	420913.32	3734466.6	5.68E-07	2.40E-06	1.05E-09	0.00E+00	2.97E-06	7.78E-08	3.28E-07	1.57E-10	0.00E+00	4.06E-07	4.78E-08	1.51E-07	3.64E-11	0.00E+00	1.98E-07
4039	420913.12	3734438.77	4.01E-07	1.69E-06	7.43E-10	0.00E+00	2.09E-06	5.50E-08	2.32E-07	1.11E-10	0.00E+00	2.87E-07	3.37E-08	1.06E-07	2.57E-11	0.00E+00	1.40E-07
4040	420913.05	3734429.5	3.56E-07	1.51E-06	6.61E-10	0.00E+00	1.86E-06	4.89E-08	2.06E-07	9.84E-11	0.00E+00	2.55E-07	3.00E-08	9.46E-08	2.28E-11	0.00E+00	1.25E-07
4041	420912.99	3734420.22	3.18E-07	1.34E-06	5.89E-10	0.00E+00	1.66E-06	4.36E-08	1.84E-07	8.77E-11	0.00E+00	2.27E-07	2.67E-08	8.44E-08	2.04E-11	0.00E+00	1.11E-07
4042	420912.92	3734410.95	2.84E-07	1.20E-06	5.27E-10	0.00E+00	1.49E-06	3.90E-08	1.64E-07	7.85E-11	0.00E+00	2.03E-07	2.39E-08	7.55E-08	1.82E-11	0.00E+00	9.94E-08
4043	420912.85	3734401.67	2.55E-07	1.08E-06	4.73E-10	0.00E+00	1.33E-06	3.50E-08	1.47E-07	7.05E-11	0.00E+00	1.83E-07	2.15E-08	6.78E-08	1.64E-11	0.00E+00	8.93E-08
4044	420912.79	3734392.4	2.31E-07	9.73E-07	4.27E-10	0.00E+00	1.20E-06	3.16E-08	1.33E-07	6.36E-11	0.00E+00	1.65E-07	1.94E-08	6.12E-08	1.48E-11	0.00E+00	8.06E-08

4045	420933.52	3734494.28	6.16E-07	2.60E-06	1.14E-09	0.00E+00	3.22E-06	8.44E-08	3.56E-07	1.70E-10	0.00E+00	4.40E-07	5.18E-08	1.63E-07	3.95E-11	0.00E+00	2.15E-07
4046	420933.45	3734485	5.62E-07	2.37E-06	1.04E-09	0.00E+00	2.93E-06	7.70E-08	3.24E-07	1.55E-10	0.00E+00	4.01E-07	4.73E-08	1.49E-07	3.60E-11	0.00E+00	1.96E-07
4047	420933.38	3734475.73	5.09E-07	2.15E-06	9.44E-10	0.00E+00	2.66E-06	6.98E-08	2.94E-07	1.41E-10	0.00E+00	3.64E-07	4.29E-08	1.35E-07	3.26E-11	0.00E+00	1.78E-07
4048	420933.32	3734466.45	4.60E-07	1.94E-06	8.52E-10	0.00E+00	2.40E-06	6.30E-08	2.66E-07	1.27E-10	0.00E+00	3.29E-07	3.87E-08	1.22E-07	2.95E-11	0.00E+00	1.61E-07
4049	420933.12	3734438.63	3.33E-07	1.41E-06	6.17E-10	0.00E+00	1.74E-06	4.56E-08	1.92E-07	9.19E-11	0.00E+00	2.38E-07	2.80E-08	8.84E-08	2.13E-11	0.00E+00	1.16E-07
4050	420933.05	3734429.35	2.99E-07	1.26E-06	5.53E-10	0.00E+00	1.56E-06	4.09E-08	1.72E-07	8.24E-11	0.00E+00	2.13E-07	2.51E-08	7.93E-08	1.91E-11	0.00E+00	1.04E-07
4051	420932.98	3734420.08	2.69E-07	1.13E-06	4.98E-10	0.00E+00	1.40E-06	3.68E-08	1.55E-07	7.41E-11	0.00E+00	1.92E-07	2.26E-08	7.13E-08	1.72E-11	0.00E+00	9.39E-08
4052	420932.92	3734410.8	2.42E-07	1.02E-06	4.48E-10	0.00E+00	1.26E-06	3.32E-08	1.40E-07	6.68E-11	0.00E+00	1.73E-07	2.04E-08	6.42E-08	1.55E-11	0.00E+00	8.46E-08
4053	420932.85	3734401.53	2.19E-07	9.25E-07	4.06E-10	0.00E+00	1.14E-06	3.00E-08	1.26E-07	6.04E-11	0.00E+00	1.57E-07	1.84E-08	5.81E-08	1.40E-11	0.00E+00	7.65E-08
4054	420932.78	3734392.25	1.99E-07	8.40E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.49E-11	0.00E+00	1.42E-07	1.67E-08	5.28E-08	1.27E-11	0.00E+00	6.95E-08
4055	420953.52	3734494.13	5.01E-07	2.11E-06	9.28E-10	0.00E+00	2.62E-06	6.87E-08	2.89E-07	1.38E-10	0.00E+00	3.58E-07	4.21E-08	1.33E-07	3.21E-11	0.00E+00	1.75E-07
4056	420953.45	3734484.86	4.59E-07	1.94E-06	8.50E-10	0.00E+00	2.40E-06	6.29E-08	2.65E-07	1.27E-10	0.00E+00	3.28E-07	3.86E-08	1.22E-07	2.94E-11	0.00E+00	1.60E-07
4057	420953.38	3734475.58	4.18E-07	1.77E-06	7.75E-10	0.00E+00	2.18E-06	5.73E-08	2.41E-07	1.15E-10	0.00E+00	2.99E-07	3.52E-08	1.11E-07	2.68E-11	0.00E+00	1.46E-07
4058	420953.32	3734466.31	3.80E-07	1.60E-06	7.03E-10	0.00E+00	1.98E-06	5.20E-08	2.19E-07	1.05E-10	0.00E+00	2.71E-07	3.19E-08	1.01E-07	2.43E-11	0.00E+00	1.33E-07
4059	420953.12	3734438.48	2.80E-07	1.18E-06	5.20E-10	0.00E+00	1.47E-06	3.84E-08	1.62E-07	7.74E-11	0.00E+00	2.00E-07	2.36E-08	7.44E-08	1.80E-11	0.00E+00	9.80E-08
4060	420953.05	3734429.21	2.53E-07	1.07E-06	4.69E-10	0.00E+00	1.32E-06	3.47E-08	1.46E-07	6.99E-11	0.00E+00	1.81E-07	2.13E-08	6.72E-08	1.62E-11	0.00E+00	8.86E-08
4061	420952.98	3734419.93	2.29E-07	9.68E-07	4.25E-10	0.00E+00	1.20E-06	3.14E-08	1.32E-07	6.33E-11	0.00E+00	1.64E-07	1.93E-08	6.08E-08	1.47E-11	0.00E+00	8.01E-08
4062	420952.92	3734410.66	2.08E-07	8.78E-07	3.85E-10	0.00E+00	1.09E-06	2.85E-08	1.20E-07	5.74E-11	0.00E+00	1.49E-07	1.75E-08	5.52E-08	1.33E-11	0.00E+00	7.27E-08
4063	420952.85	3734401.38	1.89E-07	7.99E-07	3.50E-10	0.00E+00	9.88E-07	2.59E-08	1.09E-07	5.22E-11	0.00E+00	1.35E-07	1.59E-08	5.02E-08	1.21E-11	0.00E+00	6.61E-08
4064	420952.78	3734392.11	1.73E-07	7.30E-07	3.20E-10	0.00E+00	9.03E-07	2.37E-08	9.98E-08	4.77E-11	0.00E+00	1.24E-07	1.45E-08	4.59E-08	1.11E-11	0.00E+00	6.04E-08
4065	420973.52	3734493.99	4.14E-07	1.75E-06	7.66E-10	0.00E+00	2.16E-06	5.67E-08	2.39E-07	1.14E-10	0.00E+00	2.96E-07	3.48E-08	1.10E-07	2.65E-11	0.00E+00	1.45E-07
4066	420973.45	3734484.71	3.80E-07	1.61E-06	7.04E-10	0.00E+00	1.99E-06	5.21E-08	2.20E-07	1.05E-10	0.00E+00	2.72E-07	3.20E-08	1.01E-07	2.44E-11	0.00E+00	1.33E-07
4067	420973.38	3734475.44	3.48E-07	1.47E-06	6.45E-10	0.00E+00	1.82E-06	4.77E-08	2.01E-07	9.61E-11	0.00E+00	2.49E-07	2.93E-08	9.24E-08	2.23E-11	0.00E+00	1.22E-07
4068	420973.32	3734466.16	3.18E-07	1.34E-06	5.89E-10	0.00E+00	1.66E-06	4.36E-08	1.83E-07	8.77E-11	0.00E+00	2.27E-07	2.67E-08	8.43E-08	2.04E-11	0.00E+00	1.11E-07
4069	420973.12	3734438.34	2.39E-07	1.01E-06	4.43E-10	0.00E+00	1.25E-06	3.28E-08	1.38E-07	6.60E-11	0.00E+00	1.71E-07	2.01E-08	6.34E-08	1.53E-11	0.00E+00	8.36E-08
4070	420973.05	3734429.06	2.17E-07	9.17E-07	4.03E-10	0.00E+00	1.14E-06	2.98E-08	1.25E-07	6.00E-11	0.00E+00	1.55E-07	1.83E-08	5.77E-08	1.39E-11	0.00E+00	7.60E-08
4071	420972.98	3734419.79	1.98E-07	8.35E-07	3.66E-10	0.00E+00	1.03E-06	2.71E-08	1.14E-07	5.46E-11	0.00E+00	1.41E-07	1.66E-08	5.25E-08	1.27E-11	0.00E+00	6.91E-08
4072	420972.92	3734410.51	1.80E-07	7.61E-07	3.34E-10	0.00E+00	9.42E-07	2.47E-08	1.04E-07	4.98E-11	0.00E+00	1.29E-07	1.52E-08	4.79E-08	1.16E-11	0.00E+00	6.30E-08
4073	420972.85	3734401.24	1.65E-07	6.96E-07	3.06E-10	0.00E+00	8.62E-07	2.26E-08	9.52E-08	4.55E-11	0.00E+00	1.18E-07	1.39E-08	4.38E-08	1.06E-11	0.00E+00	5.77E-08
4074	420972.78	3734391.96	1.52E-07	6.40E-07	2.81E-10	0.00E+00	7.92E-07	2.08E-08	8.75E-08	4.18E-11	0.00E+00	1.08E-07	1.28E-08	4.02E-08	9.71E-12	0.00E+00	5.30E-08
4075	420993.58	3734503.12	3.74E-07	1.58E-06	6.92E-10	0.00E+00	1.95E-06	5.12E-08	2.16E-07	1.03E-10	0.00E+00	2.67E-07	3.14E-08	9.92E-08	2.39E-11	0.00E+00	1.31E-07
4076	420993.52	3734493.85	3.46E-07	1.46E-06	6.41E-10	0.00E+00	1.81E-06	4.74E-08	2.00E-07	9.55E-11	0.00E+00	2.47E-07	2.91E-08	9.18E-08	2.22E-11	0.00E+00	1.21E-07
4077	420993.45	3734484.57	3.19E-07	1.35E-06	5.92E-10	0.00E+00	1.67E-06	4.38E-08	1.84E-07	8.81E-11	0.00E+00	2.28E-07	2.69E-08	8.47E-08	2.05E-11	0.00E+00	1.12E-07
4078	420993.38	3734475.3	2.94E-07	1.24E-06	5.44E-10	0.00E+00	1.53E-06	4.02E-08	1.70E-07	8.10E-11	0.00E+00	2.10E-07	2.47E-08	7.79E-08	1.88E-11	0.00E+00	1.03E-07
4079	420993.32	3734466.02	2.69E-07	1.14E-06	4.99E-10	0.00E+00	1.41E-06	3.69E-08	1.55E-07	7.43E-11	0.00E+00	1.92E-07	2.27E-08	7.14E-08	1.72E-11	0.00E+00	9.41E-08
4080	421013.58	3734502.98	3.13E-07	1.32E-06	5.80E-10	0.00E+00	1.64E-06	4.29E-08	1.81E-07	8.64E-11	0.00E+00	2.24E-07	2.63E-08	8.31E-08	2.01E-11	0.00E+00	1.09E-07
4081	421013.52	3734493.7	2.91E-07	1.23E-06	5.39E-10	0.00E+00	1.52E-06	3.99E-08	1.68E-07	8.03E-11	0.00E+00	2.08E-07	2.45E-08	7.73E-08	1.86E-11	0.00E+00	1.02E-07
4082	421013.45	3734484.43	2.70E-07	1.14E-06	5.01E-10	0.00E+00	1.41E-06	3.71E-08	1.56E-07	7.46E-11	0.00E+00	1.93E-07	2.27E-08	7.18E-08	1.73E-11	0.00E+00	9.45E-08
4083	421013.38	3734475.15	2.50E-07	1.06E-06	4.64E-10	0.00E+00	1.31E-06	3.43E-08	1.45E-07	6.91E-11	0.00E+00	1.79E-07	2.11E-08	6.64E-08	1.60E-11	0.00E+00	8.75E-08
4084	421013.32	3734465.88	2.31E-07	9.74E-07	4.27E-10	0.00E+00	1.20E-06	3.16E-08	1.33E-07	6.36E-11	0.00E+00	1.65E-07	1.94E-08	6.12E-08	1.48E-11	0.00E+00	8.06E-08
4085	421013.18	3734447.33	1.95E-07	8.22E-07	3.61E-10	0.00E+00	1.02E-06	2.67E-08	1.12E-07	5.37E-11	0.00E+00	1.39E-07	1.64E-08	5.17E-08	1.25E-11	0.00E+00	6.81E-08
4086	421013.12	3734438.05	1.79E-07	7.55E-07	3.31E-10	0.00E+00	9.34E-07	2.45E-08	1.03E-07	4.93E-11	0.00E+00	1.28E-07	1.50E-08	4.74E-08	1.15E-11	0.00E+00	6.25E-08
4087	421013.05	3734428.78	1.64E-07	6.93E-07	3.04E-10	0.00E+00	8.58E-07	2.25E-08	9.48E-08	4.53E-11	0.00E+00	1.17E-07	1.38E-08	4.36E-08	1.05E-11	0.00E+00	5.74E-08
4088	421012.98	3734419.5	1.51E-07	6.38E-07	2.80E-10	0.00E+00	7.89E-07	2.07E-08	8.72E-08	4.17E-11	0.00E+00	1.08E-07	1.27E-08	4.01E-08	9.67E-12	0.00E+00	5.28E-08
4089	421012.92	3734410.23	1.39E-07	5.87E-07	2.58E-10	0.00E+00	7.26E-07	1.91E-08	8.03E-08	3.84E-11	0.00E+00	9.94E-08	1.17E-08	3.69E-08	8.91E-12	0.00E+00	4.86E-08
4090	421012.85	3734400.95	1.28E-07	5.42E-07	2.38E-10	0.00E+00	6.70E-07	1.76E-08	7.41E-08	3.54E-11	0.00E+00	9.17E-08	1.08E-08	3.41E-08	8.22E-12	0.00E+00	4.49E-08
4091	421012.78	3734391.68	1.19E-07	5.02E-07	2.20E-10	0.00E+00	6.21E-07	1.63E-08	6.86E-08	3.28E-11	0.00E+00	8.49E-08	1.00E-08	3.15E-08	7.61E-12	0.00E+00	4.15E-08
4092	421033.58	3734502.83	2.66E-07	1.12E-06	4.92E-10	0.00E+00	1.39E-06	3.64E-08	1.53E-07	7.33E-11	0.00E+00	1.90E-07	2.24E-08	7.05E-08	1.70E-11	0.00E+00	9.29E-08
4093	421033.52	3734493.56	2.48E-07	1.05E-06	4.59E-10	0.00E+00	1.30E-06	3.40E-08	1.43E-07	6.84E-11	0.00E+00	1.77E-07	2.09E-08	6.58E-08	1.59E-11	0.00E+00	8.67E-08
4094	421033.45	3734484.28	2.31E-07	9.75E-07	4.28E-10	0.00E+00	1.21E-06	3.16E-08	1.33E-07	6.37E-11	0.00E+00	1.65E-07	1.94E-08	6.13E-08	1.48E-11	0.00E+00	8.07E-08
4095	421033.38	3734475.01	2.15E-07	9.06E-07	3.98E-10	0.00E+00	1.12E-06	2.94E-08	1.24E-07	5.92E-11	0.00E+00	1.53E-07	1.81E-08	5.69E-08	1.37E-11	0.00E+00	7.50E-08
4096	421033.32	3734465.73	1.99E-07	8.41E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.49E-11	0.00E+00	1.42E-07	1.67E-08	5.28E-08	1.28E-11	0.00E+00	6.96E-08
4097	421033.18	3734447.18	1.69E-07	7.15E-07	3.14E-10	0.00E+00	8.84E-07	2.32E-08	9.77E-08	4.67E-11	0.00E+00	1.21E-07	1.42E-08	4.49E-08	1.08E-11	0.00E+00	5.92E-08
4098	421033.12	3734437.91	1.56E-07	6.57E-07	2.88E-10	0.00E+00	8.13E-07	2.13E-08	8.98E-08	4.29E-11	0.00E+00	1.11E-07	1.31E-08	4.13E-08	9.97E-12	0.00E+00	5.44E-08
4099	421033.05	3734428.63	1.43E-07	6.04E-07	2.65E-10	0.00E+00	7.48E-07	1.96E-08	8.27E-08	3.95E-11	0.00E+00	1.02E-07	1.20E-08	3.80E-08	9.17E-12	0.00E+00	5.00E-08
4100	421032.98	3734419.36	1.32E-07	5.58E-07	2.45E-10	0.00E+00	6.91E-07	1.81E-08	7.63E-08	3.65E-11	0.00E+00	9.45E-08	1.11E-08	3.51E-08	8.47E-12	0.00E+00	4.62E-08
4101	421032.92	3734410.08	1.22E-07	5.16E-07	2.27E-10	0.00E+00	6.39E-07	1.68E-08	7.06E-08	3.37E-11	0.00E+00	8.74E-08	1.03E-08	3.24E-08	7.83E-12	0.00E+00	4.27E-08
4102	421032.85	3734400.81	1.13E-07	4.78E-07	2.10E-10	0.00E+00	5.92E-07	1.55E-08	6.54E-08	3.13E-11	0.00E+00	8.10E-08	9.53E-09	3.01E-08	7.26E-12	0.00E+00	3.96E-08
4103	421032.78	3734391.53	1.06E-07	4.48E-07	1.97E-10	0.00E+00	5.54E-07	1.45E-08	6.12E-08	2.93E-11	0.00E+00	7.58E-08	8.92E-09	2.81E-08	6.79E-12	0.00E+00	3.71E-08
4104	421073.58	3734502.55	1.99E-07	8.41E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.50E-11	0.00E+00	1.42E-07	1.68E-08	5.29E-08	1.28E-11	0.00E+00	6.96E-08
4105	421073.51	3734493.27	1.87E-07	7.88E-07	3.46E-10	0.00E+00	9.75E-07	2.56E-08	1.08E-07	5.15E-11	0.00E+00	1.33E-07	1.57E-08	4.95E-08	1.20E-11	0.00E+00	6.52E-08
4106	421073.45	3734484	1.74E-07	7.34E-07	3.22E-10	0.00E+00	9.08E-07	2.38E-08	1.00E-07	4.80E-11	0.00E+00	1.24E-07	1.46E-08	4.61E-08	1.11E-11	0.00E+00	6.07E-08
4107	421073.38	3734474.72	1.61E-07	6.81E-07	2.99E-10	0.00E+00	8.43E-07	2.21E-08	9.31E-08	4.45E-11	0.00E+00	1.15E-07	1.36E-08	4.28E-08	1.03E-11	0.00E+00	5.64E-08
4108	421073.31	3734465.45	1.49E-07	6.31E-07	2.77E-10	0.00E+00	7.81E-07	2.05E-08	8.63E-08	4.13E-11	0.00E+00	1.07E-07	1.26E-08	3.97E-08	9.58E-12	0.00E+00	5.23E-08
4109	421153.58	3734501.97	1.22E-07	5.15E-07	2.26E-10	0.00E+00	6.38E-07	1.67E-08	7.05E-08	3.37E-11	0.00E+00	8.72E-08	1.03E-08	3.24E-08	7.82E-12	0.00E+00	4.27E-08
4110	421153.51	3734492.7	1.15E-07	4.87E-07	2.14E-10	0.00E+00	6.03E-07	1.58E-08	6.67E-08	3.19E-11	0.00E+00	8.25E-08	9.71E-09	3.06E-08	7.40E-12	0.00E+00	4.04E-08
4111	421153.45	3734483.42	1.08E-07	4.57E-07	2.01E-10	0.00E+00	5.66E-07	1.48E-08	6.25E-08	2.99E-11	0.00E+00	7.74E-08	9.11E-09	2.87E-08	6.94E-12	0.00E+00	3.79E-08
4112	421153.38	3734474.15	1.01E-07	4.27E-07	1.88E-10	0.00E+00	5.29E-07	1.39E-08	5.85E-08	2.79E-11	0.00E+00	7.24E-08	8.52E-09	2.69E-08	6.49E-12	0.00E+00	3.54E-08
4113	421153.31	3734464.87	9.46E-08	3.99E-07	1.75E-10	0.00E+00	4.94E-07	1.30E-08	5.46E-08	2.61E-11	0.00E+00	6.76E-08	7.96E-09	2.51E-08	6.06E-12	0.00E+00	3.31E-08
4114	421153.18	3734446.32	8.36E-08	3.53E-07	1.55E-10	0.00E+00	4.37E-07	1.15E-08	4.82E-08	2.31E-11	0.00E+00	5.97E-08	7.03E-09	2.22E-08	5.35E-12	0.00E+00	2.92E-08
4115	421153.11	3734437.05	7.87E-08	3.32E-07	1.46E-10	0.00E+00	4.11E-07	1.08E-08	4.55E-08	2.17E-11	0.00E+00	5.63E-08	6.62E-09	2.09E-08	5.04E-12	0.00E+00	2.75E-08
4116	421153.05	3734427.77	7.43E-08	3.14E-07	1.38E-10	0.00E+00	3.88E-07	1.02E-08	4.29E-08	2.05E-11	0.00E+00	5.31E-08	6.25E-09	1.97E-08	4.76E-12	0.00E+00	2.60E-08
4117	421152.98	3734418.5	7.06E-08	2.98E-07	1.31E-10	0.00E+00	3.69E-07	9.68E-09	4.08E-08	1.95E-11	0.00E+00	5.05E-08	5.94E-09	1.87E-08	4.52E-12	0.00E+00	2.47E-08
4118	421152.91	3734409.22	6.68E-08	2.82E-07	1.24E-10	0.00E+00	3.49E-07	9.16E-09	3.86E-08	1.84E-11	0.00E+00	4.78E-08	5.62E-09	1.77E-08	4.28E-12	0.00E+00	2.34E-08
4119	421152.85	3734399.95	6.30E-08	2.66E-07	1.17E-10	0.00E+00	3.29E-07	8.64E-09	3.64E-08	1.74E-11	0.00E+00	4.51E-08	5.30E-09	1.67E-08	4.04E-12	0.00E+00	2.20E-08
4120	421152.78	3734390.67	5.95E-08	2.51E-07	1.10E-10	0.00E+00	3.11E-07	8.16E-09	3.44E-08	1.64E-11	0.00E+00	4.25E-08	5.01E-09	1.58E-08	3.81E-12	0.00E+00	2.08E-08
4121	421193.58	3734501.68	9.85E-08	4.16E-07	1.83E-10	0.00E+00	5.15E-07	1.35E-08	5.69E-08	2.72E-11	0.00E+00	7.04E-08	8.29E-09	2.61E-08	6.31E-12	0.00E+00	3.44E-08
4122	421193.51	3734492.41	9.36E-08	3.95E-07	1.73E-10	0.00E+00	4.89E-07	1.28E-08	5.41E-08	2.58E-11	0.00E+00	6.69E-08	7.88E-09	2.48E-08	6.00E-12	0.00E+00	3.27E-08
4123	421193.44	3734483.13	8.86E-08	3.74E-07	1.64E-10	0.00E+00	4.63E-07	1.21E-08	5.12E-08	2.44E-11	0.00E+00	6.33E-08	7.45E-09	2.35E-08	5.68E-12	0.00E+00	3.10E-08
4124	421193.38	3734473.86	8.38E-08	3.54E-07	1.55E-10	0.00E+00	4.38E-07	1.15E-08	4.84E-08	2.31E-11	0.00E+00	5.99E-08	7.05E-09	2.22E-08	5.37E-12	0.00E+00	2.93E-08
4125	421193.31	3734464.58	7.92E-08	3.34E-07	1.47E-10	0.00E+00	4.14E-07	1.09E-08	4.57E-08	2.18E-11	0.00E+00	5.66E-08	6.66E-09	2.10E-08	5.07E-12	0.00E+00	2.77E-08
4126	421193.18	3734446.03	7.06E-08	2.98E-07	1.31E-10	0.00E+00	3.69E-07	9.68E-09	4.08E-08	1.95E-11	0.00E+00	5.05E-08	5.94E-09	1.87E-08	4.53E-12	0.00E+00	2.47E-08
4127	421193.11	3734436.76	6.68E-08	2.82E-07	1.24E-10	0.00E+00	3.49E-07	9.15E-09	3.85E-08	1.84E-11	0.00E+00	4.77E-08	5.62E-09	1.77E-08	4.28E-12	0.00E+00	2.33E-08
4128	421193.04	3734427.48	6.31E-08	2.66E-07	1.17E-10	0.00E+00	3.30E-07	8.65E-09	3.64E-08	1.74E-11	0.00E+00	4.51E-08	5.31E-09	1.67E-08	4.04E-12	0.00E+00	2.21E-08
4129	421192.98	3734418.21	5.96E-08	2.52E-07	1.10E-10	0.00E+00	3.12E-07	8.17E-09	3.44E-08	1.65E-11	0.00E+00	4.26E-08	5.02E-09	1.58E-08	3.82E-12	0.00E+00	2.08E-08
4130	421192.91	3734408.93	5.64E-08	2.38E-07	1.04E-10	0.00E+00	2.95E-07	7.73E-09	3.26E-08	1.56E-11	0.00E+00	4.03E-08	4.74E-09	1.50E-08	3.61E-12	0.00E+00	1.97E-08
4131	421192.84	3734399.66	5.34E-08	2.25E-07	9.89E-11	0.00E+00	2.79E-07	7.32E-09	3.08E-08	1.47E-11	0.00E+00	3.82E-08	4.49E-09	1.42E-08	3.42E-12	0.00E+00	1.87E-08
4132	421192.78	3734390.38	5.06E-08	2.14E-07	9.37E-11	0.00E+00	2.64E-07	6.93E-09	2.92E-08	1.40E-11	0.00E+00	3.62E-08	4.26E-09	1.34E-08	3.24E-12	0.00E+00	1.77E-08
4133	421233.58	3734501.4	8.12E-08	3.43E-07	1.50E-10	0.00E+00	4.24E-07	1.11E-08	4.69E-08	2.24E-11	0.00E+00	5.80E-08	6.83E-09	2.15E-08	5.20E-12	0.00E+00	2.84E-08
4134	421233.51	3734492.12	7.71E-08	3.26E-07	1.43E-10	0.00E+00	4.03E-07	1.06E-08	4.45E-08	2.13E-11	0.00E+00	5.51E-08	6.49E-09	2.05E-08	4.94E-12	0.00E+00	2.70E-08
4135	421233.44	3734482.85	7.33E-08	3.09E-07	1.36E-10	0.00E+00	3.83E-07	1.00E-08	4.23E-08	2.02E-11	0.00E+00	5.24E-08	6.17E-09	1.94E-08	4.69E-12	0.00E+00	2.56E-08
4136	421233.38	3734473.57	6.95E-08	2.94E-07	1.29E-10	0.00E+00	3.63E-07	9.53E-09	4.02E-08	1.92E-11	0.00E+00	4.97E-08	5.85E-09	1.85E-08	4.45E-12	0.00E+00	2.43E-08

4137	421233.31	3734464.3	6.60E-08	2.79E-07	1.22E-10	0.00E+00	3.45E-07	9.04E-09	3.81E-08	1.82E-11	0.00E+00	4.72E-08	5.55E-09	1.75E-08	4.23E-12	0.00E+00	2.31E-08
4138	421233.11	3734436.47	5.63E-08	2.38E-07	1.04E-10	0.00E+00	2.94E-07	7.72E-09	3.25E-08	1.55E-11	0.00E+00	4.03E-08	4.74E-09	1.49E-08	3.61E-12	0.00E+00	1.97E-08
4139	421233.04	3734427.2	5.34E-08	2.26E-07	9.90E-11	0.00E+00	2.79E-07	7.32E-09	3.09E-08	1.47E-11	0.00E+00	3.82E-08	4.50E-09	1.42E-08	3.42E-12	0.00E+00	1.87E-08
4140	421232.98	3734417.92	5.07E-08	2.14E-07	9.39E-11	0.00E+00	2.65E-07	6.95E-09	2.93E-08	1.40E-11	0.00E+00	3.62E-08	4.26E-09	1.35E-08	3.25E-12	0.00E+00	1.77E-08
4141	421232.91	3734408.65	4.81E-08	2.03E-07	8.92E-11	0.00E+00	2.51E-07	6.60E-09	2.78E-08	1.33E-11	0.00E+00	3.44E-08	4.05E-09	1.28E-08	3.08E-12	0.00E+00	1.68E-08
4142	421232.84	3734399.37	4.57E-08	1.93E-07	8.47E-11	0.00E+00	2.39E-07	6.27E-09	2.64E-08	1.26E-11	0.00E+00	3.27E-08	3.85E-09	1.21E-08	2.93E-12	0.00E+00	1.60E-08
4143	421232.78	3734390.1	4.34E-08	1.83E-07	8.04E-11	0.00E+00	2.27E-07	5.95E-09	2.51E-08	1.20E-11	0.00E+00	3.10E-08	3.65E-09	1.15E-08	2.78E-12	0.00E+00	1.52E-08
4144	421273.49	3734510.26	7.10E-08	3.00E-07	1.32E-10	0.00E+00	3.71E-07	9.74E-09	4.10E-08	1.96E-11	0.00E+00	5.08E-08	5.98E-09	1.89E-08	4.55E-12	0.00E+00	2.48E-08
4145	421273.58	3734501.11	6.78E-08	2.86E-07	1.26E-10	0.00E+00	3.54E-07	9.29E-09	3.91E-08	1.87E-11	0.00E+00	4.85E-08	5.70E-09	1.80E-08	4.34E-12	0.00E+00	2.37E-08
4146	421273.51	3734491.83	6.46E-08	2.73E-07	1.20E-10	0.00E+00	3.38E-07	8.86E-09	3.73E-08	1.78E-11	0.00E+00	4.62E-08	5.44E-09	1.72E-08	4.14E-12	0.00E+00	2.26E-08
4147	421273.44	3734482.56	6.16E-08	2.60E-07	1.14E-10	0.00E+00	3.22E-07	8.44E-09	3.56E-08	1.70E-11	0.00E+00	4.40E-08	5.18E-09	1.63E-08	3.95E-12	0.00E+00	2.15E-08
4148	421273.38	3734473.28	5.87E-08	2.48E-07	1.09E-10	0.00E+00	3.06E-07	8.04E-09	3.39E-08	1.62E-11	0.00E+00	4.19E-08	4.93E-09	1.56E-08	3.76E-12	0.00E+00	2.05E-08
4149	421273.31	3734464.01	5.58E-08	2.36E-07	1.03E-10	0.00E+00	2.92E-07	7.65E-09	3.22E-08	1.54E-11	0.00E+00	3.99E-08	4.70E-09	1.48E-08	3.58E-12	0.00E+00	1.95E-08
4150	421273.24	3734454.73	5.31E-08	2.24E-07	9.84E-11	0.00E+00	2.77E-07	7.28E-09	3.07E-08	1.47E-11	0.00E+00	3.80E-08	4.47E-09	1.41E-08	3.40E-12	0.00E+00	1.86E-08
4151	421273.18	3734445.46	5.05E-08	2.13E-07	9.36E-11	0.00E+00	2.64E-07	6.93E-09	2.92E-08	1.39E-11	0.00E+00	3.61E-08	4.25E-09	1.34E-08	3.24E-12	0.00E+00	1.77E-08
4152	421273.11	3734436.18	4.81E-08	2.03E-07	8.90E-11	0.00E+00	2.51E-07	6.59E-09	2.77E-08	1.33E-11	0.00E+00	3.43E-08	4.04E-09	1.28E-08	3.08E-12	0.00E+00	1.68E-08
4153	421273.04	3734426.91	4.57E-08	1.93E-07	8.47E-11	0.00E+00	2.39E-07	6.27E-09	2.64E-08	1.26E-11	0.00E+00	3.27E-08	3.85E-09	1.21E-08	2.93E-12	0.00E+00	1.60E-08
4154	421272.98	3734417.63	4.35E-08	1.84E-07	8.07E-11	0.00E+00	2.27E-07	5.97E-09	2.51E-08	1.20E-11	0.00E+00	3.11E-08	3.66E-09	1.16E-08	2.79E-12	0.00E+00	1.52E-08
4155	421272.91	3734408.36	4.15E-08	1.75E-07	7.68E-11	0.00E+00	2.17E-07	5.68E-09	2.39E-08	1.14E-11	0.00E+00	2.96E-08	3.49E-09	1.10E-08	2.66E-12	0.00E+00	1.45E-08
4156	421272.84	3734399.08	3.95E-08	1.67E-07	7.32E-11	0.00E+00	2.06E-07	5.42E-09	2.28E-08	1.09E-11	0.00E+00	2.83E-08	3.33E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
4157	421272.78	3734389.81	3.75E-08	1.58E-07	6.95E-11	0.00E+00	1.96E-07	5.14E-09	2.17E-08	1.04E-11	0.00E+00	2.68E-08	3.16E-09	9.96E-09	2.40E-12	0.00E+00	1.31E-08
4158	421313.51	3734507.37	5.92E-08	2.50E-07	1.10E-10	0.00E+00	3.09E-07	8.12E-09	3.42E-08	1.63E-11	0.00E+00	4.23E-08	4.98E-09	1.57E-08	3.79E-12	0.00E+00	2.07E-08
4159	421313.51	3734491.55	5.48E-08	2.31E-07	1.02E-10	0.00E+00	2.86E-07	7.51E-09	3.17E-08	1.51E-11	0.00E+00	3.92E-08	4.61E-09	1.45E-08	3.51E-12	0.00E+00	1.92E-08
4160	421313.44	3734482.27	5.24E-08	2.21E-07	9.70E-11	0.00E+00	2.74E-07	7.18E-09	3.02E-08	1.45E-11	0.00E+00	3.74E-08	4.41E-09	1.39E-08	3.35E-12	0.00E+00	1.83E-08
4161	421313.38	3734473	5.00E-08	2.11E-07	9.27E-11	0.00E+00	2.61E-07	6.86E-09	2.89E-08	1.38E-11	0.00E+00	3.58E-08	4.21E-09	1.33E-08	3.20E-12	0.00E+00	1.75E-08
4162	421313.31	3734463.72	4.78E-08	2.02E-07	8.85E-11	0.00E+00	2.49E-07	6.55E-09	2.76E-08	1.32E-11	0.00E+00	3.41E-08	4.02E-09	1.27E-08	3.06E-12	0.00E+00	1.67E-08
4163	421313.24	3734454.45	4.56E-08	1.92E-07	8.44E-11	0.00E+00	2.38E-07	6.25E-09	2.63E-08	1.26E-11	0.00E+00	3.26E-08	3.83E-09	1.21E-08	2.92E-12	0.00E+00	1.59E-08
4164	421313.18	3734445.17	4.35E-08	1.84E-07	8.05E-11	0.00E+00	2.27E-07	5.96E-09	2.51E-08	1.20E-11	0.00E+00	3.11E-08	3.66E-09	1.15E-08	2.78E-12	0.00E+00	1.52E-08
4165	421313.11	3734435.9	4.15E-08	1.75E-07	7.69E-11	0.00E+00	2.17E-07	5.69E-09	2.40E-08	1.14E-11	0.00E+00	2.97E-08	3.49E-09	1.10E-08	2.66E-12	0.00E+00	1.45E-08
4166	421313.04	3734426.62	3.95E-08	1.67E-07	7.31E-11	0.00E+00	2.06E-07	5.41E-09	2.28E-08	1.09E-11	0.00E+00	2.82E-08	3.32E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
4167	421312.98	3734417.35	3.77E-08	1.59E-07	6.98E-11	0.00E+00	1.97E-07	5.16E-09	2.17E-08	1.04E-11	0.00E+00	2.69E-08	3.17E-09	9.99E-09	2.41E-12	0.00E+00	1.32E-08
4168	421312.91	3734408.07	3.59E-08	1.52E-07	6.66E-11	0.00E+00	1.88E-07	4.93E-09	2.08E-08	9.92E-12	0.00E+00	2.57E-08	3.02E-09	9.54E-09	2.30E-12	0.00E+00	1.26E-08
4169	421312.84	3734398.8	3.43E-08	1.45E-07	6.36E-11	0.00E+00	1.79E-07	4.71E-09	1.98E-08	9.47E-12	0.00E+00	2.45E-08	2.89E-09	9.11E-09	2.20E-12	0.00E+00	1.20E-08
4170	421312.78	3734389.52	3.28E-08	1.39E-07	6.09E-11	0.00E+00	1.72E-07	4.50E-09	1.90E-08	9.06E-12	0.00E+00	2.35E-08	2.76E-09	8.72E-09	2.10E-12	0.00E+00	1.15E-08
4171	421353.11	3734435.61	3.62E-08	1.53E-07	6.71E-11	0.00E+00	1.89E-07	4.96E-09	2.09E-08	9.99E-12	0.00E+00	2.59E-08	3.04E-09	9.60E-09	2.32E-12	0.00E+00	1.27E-08
4172	421353.04	3734426.33	3.47E-08	1.46E-07	6.42E-11	0.00E+00	1.81E-07	4.75E-09	2.00E-08	9.56E-12	0.00E+00	2.48E-08	2.92E-09	9.20E-09	2.22E-12	0.00E+00	1.21E-08
4173	421352.97	3734417.06	3.32E-08	1.40E-07	6.15E-11	0.00E+00	1.73E-07	4.55E-09	1.92E-08	9.16E-12	0.00E+00	2.37E-08	2.79E-09	8.81E-09	2.13E-12	0.00E+00	1.16E-08
4174	421352.91	3734407.78	3.18E-08	1.34E-07	5.89E-11	0.00E+00	1.66E-07	4.36E-09	1.84E-08	8.78E-12	0.00E+00	2.27E-08	2.68E-09	8.44E-09	2.04E-12	0.00E+00	1.11E-08
4175	421352.84	3734398.51	3.05E-08	1.29E-07	5.65E-11	0.00E+00	1.59E-07	4.18E-09	1.76E-08	8.41E-12	0.00E+00	2.18E-08	2.57E-09	8.09E-09	1.95E-12	0.00E+00	1.07E-08
4176	421352.77	3734389.23	2.92E-08	1.23E-07	5.42E-11	0.00E+00	1.53E-07	4.01E-09	1.69E-08	8.07E-12	0.00E+00	2.09E-08	2.46E-09	7.76E-09	1.87E-12	0.00E+00	1.02E-08
4177	421393.5	3734507.7	4.37E-08	1.84E-07	8.09E-11	0.00E+00	2.28E-07	5.99E-09	2.52E-08	1.21E-11	0.00E+00	3.12E-08	3.67E-09	1.16E-08	2.80E-12	0.00E+00	1.53E-08
4178	421393.51	3734490.97	4.07E-08	1.72E-07	7.54E-11	0.00E+00	2.13E-07	5.58E-09	2.35E-08	1.12E-11	0.00E+00	2.91E-08	3.42E-09	1.08E-08	2.61E-12	0.00E+00	1.42E-08
4179	421393.44	3734481.7	3.91E-08	1.65E-07	7.24E-11	0.00E+00	2.04E-07	5.36E-09	2.26E-08	1.08E-11	0.00E+00	2.79E-08	3.29E-09	1.04E-08	2.50E-12	0.00E+00	1.37E-08
4180	421393.37	3734472.42	3.75E-08	1.58E-07	6.95E-11	0.00E+00	1.96E-07	5.14E-09	2.17E-08	1.04E-11	0.00E+00	2.68E-08	3.16E-09	9.96E-09	2.40E-12	0.00E+00	1.31E-08
4181	421393.31	3734463.15	3.60E-08	1.52E-07	6.67E-11	0.00E+00	1.88E-07	4.94E-09	2.08E-08	9.94E-12	0.00E+00	2.57E-08	3.03E-09	9.56E-09	2.31E-12	0.00E+00	1.26E-08
4182	421393.24	3734453.87	3.46E-08	1.46E-07	6.41E-11	0.00E+00	1.81E-07	4.74E-09	2.00E-08	9.54E-12	0.00E+00	2.47E-08	2.91E-09	9.17E-09	2.21E-12	0.00E+00	1.21E-08
4183	421393.17	3734444.6	3.32E-08	1.40E-07	6.15E-11	0.00E+00	1.73E-07	4.55E-09	1.92E-08	9.16E-12	0.00E+00	2.37E-08	2.79E-09	8.81E-09	2.13E-12	0.00E+00	1.16E-08
4184	421393.11	3734435.32	3.19E-08	1.34E-07	5.90E-11	0.00E+00	1.66E-07	4.37E-09	1.84E-08	8.79E-12	0.00E+00	2.28E-08	2.68E-09	8.45E-09	2.04E-12	0.00E+00	1.11E-08
4185	421393.04	3734426.05	3.06E-08	1.29E-07	5.67E-11	0.00E+00	1.60E-07	4.19E-09	1.77E-08	8.44E-12	0.00E+00	2.19E-08	2.57E-09	8.12E-09	1.96E-12	0.00E+00	1.07E-08
4186	421392.97	3734416.77	2.94E-08	1.24E-07	5.44E-11	0.00E+00	1.53E-07	4.03E-09	1.70E-08	8.10E-12	0.00E+00	2.10E-08	2.47E-09	7.79E-09	1.88E-12	0.00E+00	1.03E-08
4187	421392.91	3734407.5	2.82E-08	1.19E-07	5.23E-11	0.00E+00	1.47E-07	3.87E-09	1.63E-08	7.78E-12	0.00E+00	2.02E-08	2.37E-09	7.49E-09	1.81E-12	0.00E+00	9.86E-09
4188	421392.84	3734398.22	2.71E-08	1.14E-07	5.02E-11	0.00E+00	1.42E-07	3.72E-09	1.57E-08	7.48E-12	0.00E+00	1.94E-08	2.28E-09	7.19E-09	1.74E-12	0.00E+00	9.48E-09
4189	421392.77	3734388.95	2.60E-08	1.10E-07	4.82E-11	0.00E+00	1.36E-07	3.57E-09	1.50E-08	7.18E-12	0.00E+00	1.86E-08	2.19E-09	6.90E-09	1.67E-12	0.00E+00	9.09E-09
4190	421433.49	3734507.87	3.76E-08	1.59E-07	6.97E-11	0.00E+00	1.96E-07	5.15E-09	2.17E-08	1.04E-11	0.00E+00	2.69E-08	3.16E-09	9.98E-09	2.41E-12	0.00E+00	1.31E-08
4191	421433.51	3734490.68	3.52E-08	1.49E-07	6.52E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.71E-12	0.00E+00	2.51E-08	2.96E-09	9.34E-09	2.25E-12	0.00E+00	1.23E-08
4192	421433.44	3734481.41	3.40E-08	1.43E-07	6.29E-11	0.00E+00	1.77E-07	4.65E-09	1.96E-08	9.37E-12	0.00E+00	2.43E-08	2.86E-09	9.01E-09	2.17E-12	0.00E+00	1.19E-08
4193	421433.37	3734472.13	3.28E-08	1.38E-07	6.07E-11	0.00E+00	1.71E-07	4.49E-09	1.89E-08	9.04E-12	0.00E+00	2.34E-08	2.76E-09	8.69E-09	2.10E-12	0.00E+00	1.15E-08
4194	421433.31	3734462.86	3.16E-08	1.33E-07	5.86E-11	0.00E+00	1.65E-07	4.33E-09	1.83E-08	8.72E-12	0.00E+00	2.26E-08	2.66E-09	8.39E-09	2.02E-12	0.00E+00	1.10E-08
4195	421433.24	3734453.58	3.05E-08	1.29E-07	5.65E-11	0.00E+00	1.59E-07	4.18E-09	1.76E-08	8.41E-12	0.00E+00	2.18E-08	2.57E-09	8.09E-09	1.95E-12	0.00E+00	1.07E-08
4196	421433.17	3734444.31	2.94E-08	1.24E-07	5.44E-11	0.00E+00	1.53E-07	4.03E-09	1.70E-08	8.11E-12	0.00E+00	2.10E-08	2.47E-09	7.80E-09	1.88E-12	0.00E+00	1.03E-08
4197	421433.11	3734435.03	2.83E-08	1.19E-07	5.24E-11	0.00E+00	1.48E-07	3.87E-09	1.63E-08	7.80E-12	0.00E+00	2.02E-08	2.38E-09	7.50E-09	1.81E-12	0.00E+00	9.88E-09
4198	421433.04	3734425.76	2.72E-08	1.15E-07	5.04E-11	0.00E+00	1.42E-07	3.73E-09	1.57E-08	7.51E-12	0.00E+00	1.94E-08	2.29E-09	7.22E-09	1.74E-12	0.00E+00	9.51E-09
4199	421432.97	3734416.48	2.62E-08	1.11E-07	4.85E-11	0.00E+00	1.37E-07	3.59E-09	1.51E-08	7.22E-12	0.00E+00	1.87E-08	2.20E-09	6.95E-09	1.68E-12	0.00E+00	9.15E-09
4200	421432.91	3734407.21	2.52E-08	1.06E-07	4.67E-11	0.00E+00	1.32E-07	3.45E-09	1.46E-08	6.95E-12	0.00E+00	1.80E-08	2.12E-09	6.69E-09	1.61E-12	0.00E+00	8.81E-09
4201	421432.84	3734397.93	2.43E-08	1.03E-07	4.50E-11	0.00E+00	1.27E-07	3.33E-09	1.40E-08	6.70E-12	0.00E+00	1.74E-08	2.04E-09	6.44E-09	1.56E-12	0.00E+00	8.49E-09
4202	421432.77	3734388.66	2.34E-08	9.87E-08	4.33E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.45E-12	0.00E+00	1.67E-08	1.97E-09	6.20E-09	1.50E-12	0.00E+00	8.17E-09
4203	420732.79	3734853.69	1.67E-07	7.05E-07	3.09E-10	0.00E+00	8.72E-07	2.29E-08	9.64E-08	4.61E-11	0.00E+00	1.19E-07	1.40E-08	4.43E-08	1.07E-11	0.00E+00	5.84E-08
4204	420744.45	3734853.69	1.93E-07	8.13E-07	3.57E-10	0.00E+00	1.01E-06	2.64E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.11E-08	1.23E-11	0.00E+00	6.73E-08
4205	420732.79	3734893.69	1.25E-07	5.26E-07	2.31E-10	0.00E+00	6.51E-07	1.71E-08	7.20E-08	3.44E-11	0.00E+00	8.91E-08	1.05E-08	3.31E-08	7.99E-12	0.00E+00	4.36E-08
4206	420744.45	3734893.69	1.42E-07	6.00E-07	2.63E-10	0.00E+00	7.42E-07	1.95E-08	8.20E-08	3.92E-11	0.00E+00	1.02E-07	1.20E-08	3.77E-08	9.10E-12	0.00E+00	4.97E-08
4207	420732.79	3734933.69	9.64E-08	4.07E-07	1.79E-10	0.00E+00	5.04E-07	1.32E-08	5.57E-08	2.66E-11	0.00E+00	6.89E-08	8.11E-09	2.56E-08	6.18E-12	0.00E+00	3.37E-08
4208	420744.45	3734933.69	1.09E-07	4.62E-07	2.03E-10	0.00E+00	5.71E-07	1.50E-08	6.31E-08	3.02E-11	0.00E+00	7.81E-08	9.20E-09	2.90E-08	7.00E-12	0.00E+00	3.82E-08
4209	420732.79	3734973.69	7.75E-08	3.27E-07	1.44E-10	0.00E+00	4.05E-07	1.06E-08	4.48E-08	2.14E-11	0.00E+00	5.54E-08	6.52E-09	2.06E-08	4.97E-12	0.00E+00	2.71E-08
4210	420744.45	3734973.69	8.62E-08	3.64E-07	1.60E-10	0.00E+00	4.50E-07	1.18E-08	4.97E-08	2.38E-11	0.00E+00	6.16E-08	7.25E-09	2.29E-08	5.52E-12	0.00E+00	3.01E-08
4211	420732.79	3735013.69	6.29E-08	2.66E-07	1.17E-10	0.00E+00	3.29E-07	8.62E-09	3.63E-08	1.74E-11	0.00E+00	4.50E-08	5.29E-09	1.67E-08	4.03E-12	0.00E+00	2.20E-08
4212	420744.45	3735013.69	6.90E-08	2.92E-07	1.28E-10	0.00E+00	3.61E-07	9.47E-09	3.99E-08	1.91E-11	0.00E+00	4.94E-08	5.81E-09	1.83E-08	4.42E-12	0.00E+00	2.41E-08
4213	420732.79	3735053.69	5.15E-08	2.17E-07	9.54E-11	0.00E+00	2.69E-07	7.06E-09	2.97E-08	1.42E-11	0.00E+00	3.68E-08	4.33E-09	1.37E-08	3.30E-12	0.00E+00	1.80E-08
4214	420744.45	3735053.69	5.62E-08	2.37E-07	1.04E-10	0.00E+00	2.94E-07	7.70E-09	3.24E-08	1.55E-11	0.00E+00	4.02E-08	4.73E-09	1.49E-08	3.60E-12	0.00E+00	1.96E-08
4215	420754.41	3734383.95	8.18E-07	3.45E-06	1.51E-09	0.00E+00	4.27E-06	1.12E-07	4.72E-07	2.26E-10	0.00E+00	5.84E-07	6.88E-08	2.17E-07	5.24E-11	0.00E+00	2.86E-07
4216	420754.38	3734374.25	6.49E-07	2.74E-06	1.20E-09	0.00E+00	3.39E-06	8.90E-08	3.75E-07	1.79E-10	0.00E+00	4.64E-07	5.46E-08	1.72E-07	4.16E-11	0.00E+00	2.27E-07
4217	420754.34	3734364.55	5.27E-07	2.22E-06	9.76E-10	0.00E+00	2.75E-06	7.22E-08	3.04E-07	1.45E-10	0.00E+00	3.76E-07	4.43E-08	1.40E-07	3.37E-11	0.00E+00	1.84E-07
4218	420754.31	3734354.84	4.34E-07	1.83E-06	8.05E-10	0.00E+00	2.27E-06	5.96E-08	2.51E-07	1.20E-10	0.00E+00	3.11E-07	3.65E-08	1.15E-07	2.78E-11	0.00E+00	1.52E-07
4219	420754.27	3734345.14	3.63E-07	1.53E-06	6.73E-10	0.00E+00	1.90E-06	4.98E-08	2.10E-07	1.00E-10	0.00E+00	2.60E-07	3.06E-08	9.64E-08	2.33E-11	0.00E+00	1.27E-07
4220	420754.23	3734335.44	3.07E-07	1.30E-06	5.69E-10	0.00E+00	1.61E-06	4.21E-08	1.77E-07	8.48E-11	0.00E+00	2.20E-07	2.59E-08	8.15E-08	1.97E-11	0.00E+00	1.07E-07
4221	420754.2	3734325.74	2.63E-07	1.11E-06	4.87E-10	0.00E+00	1.37E-06	3.60E-08	1.52E-07	7.25E-11	0.00E+00	1.88E-07	2.21E-08	6.97E-08	1.68E-11	0.00E+00	9.19E-08
4222	420764.41	3734383.91	7.52E-07	3.17E-06	1.39E-09	0.00E+00	3.93E-06	1.03E-07	4.34E-07	2.07E-10	0.00E+00	5.37E-07	6.33E-08	2.00E-07	4.82E-11	0.00E+00	2.63E-07
4223	420764.38	3734374.21	6.09E-07	2.57E-06	1.13E-09	0.00E+00	3.18E-06	8.34E-08	3.51E-07	1.68E-10	0.00E+00	4.35E-07	5.12E-08	1.62E-07	3.90E-11	0.00E+00	2.13E-07
4224	420764.34	3734364.51	5.01E-07	2.11E-06	9.28E-10	0.00E+00	2.62E-06	6.86E-08	2.89E-07	1.38E-10	0.00E+00	3.58E-07	4.21E-08	1.33E-07	3.21E-11	0.00E+00	1.75E-07
4225	420764.31	3734354.81	4.18E-07	1.76E-06	7.74E-10	0.00E+00	2.18E-06	5.72E-08	2.41E-07	1.15E-10	0.00E+00	2.98E-07	3.51E-08	1.11E-07	2.68E-11	0.00E+00	1.46E-07
4226	420764.27	3734345.11	3.52E-07	1.49E-06	6.53E-10	0.00E+00	1.84E-06	4.83E-08	2.03E-07	9.72E-11	0.00E+00	2.52E-07	2.96E-08	9.35E-08	2.26E-11	0.00E+00	1.23E-07
4227	420764.23	3734335.4	3.00E-07	1.27E-06	5.56E-10	0.00E+00	1.57E-06	4.12E-08	1.73E-07	8.29E-11	0.00E+00	2.15E-07	2.53E-08	7.97E-08	1.92E-11	0.00E+00	1.05E-07
4228	420764.2	3734325.7	2.58E-07	1.09E-06	4.79E-10	0.00E+00	1.35E-06	3.54E-08	1.49E-07	7.13E-11	0.00E+00	1.85E-07	2.17E-08	6.86E-08	1.66E-11	0.00E+00	9.03E-08

4229	420774.41	3734383.88	6.86E-07	2.90E-06	1.27E-09	0.00E+00	3.59E-06	9.41E-08	3.96E-07	1.89E-10	0.00E+00	4.91E-07	5.78E-08	1.82E-07	4.40E-11	0.00E+00	2.40E-07
4230	420774.38	3734374.17	5.65E-07	2.39E-06	1.05E-09	0.00E+00	2.95E-06	7.75E-08	3.26E-07	1.56E-10	0.00E+00	4.04E-07	4.75E-08	1.50E-07	3.62E-11	0.00E+00	1.98E-07
4231	420774.34	3734364.47	4.72E-07	1.99E-06	8.74E-10	0.00E+00	2.46E-06	6.46E-08	2.72E-07	1.30E-10	0.00E+00	3.37E-07	3.97E-08	1.25E-07	3.02E-11	0.00E+00	1.65E-07
4232	420774.31	3734354.77	3.98E-07	1.68E-06	7.37E-10	0.00E+00	2.08E-06	5.45E-08	2.30E-07	1.10E-10	0.00E+00	2.84E-07	3.35E-08	1.06E-07	2.55E-11	0.00E+00	1.39E-07
4233	420774.27	3734345.07	3.38E-07	1.43E-06	6.27E-10	0.00E+00	1.77E-06	4.64E-08	1.95E-07	9.34E-11	0.00E+00	2.42E-07	2.85E-08	8.98E-08	2.17E-11	0.00E+00	1.18E-07
4234	420774.23	3734335.37	2.91E-07	1.23E-06	5.39E-10	0.00E+00	1.52E-06	3.99E-08	1.68E-07	8.03E-11	0.00E+00	2.08E-07	2.45E-08	7.72E-08	1.86E-11	0.00E+00	1.02E-07
4235	420774.2	3734325.66	2.52E-07	1.06E-06	4.67E-10	0.00E+00	1.32E-06	3.46E-08	1.46E-07	6.96E-11	0.00E+00	1.80E-07	2.12E-08	6.69E-08	1.62E-11	0.00E+00	8.82E-08
4236	420834.38	3734373.95	3.44E-07	1.45E-06	6.37E-10	0.00E+00	1.80E-06	4.71E-08	1.98E-07	9.48E-11	0.00E+00	2.46E-07	2.89E-08	9.12E-08	2.20E-11	0.00E+00	1.20E-07
4237	420834.34	3734364.25	3.04E-07	1.28E-06	5.63E-10	0.00E+00	1.59E-06	4.17E-08	1.76E-07	8.39E-11	0.00E+00	2.17E-07	2.56E-08	8.07E-08	1.95E-11	0.00E+00	1.06E-07
4238	420834.31	3734354.55	2.71E-07	1.14E-06	5.01E-10	0.00E+00	1.41E-06	3.71E-08	1.56E-07	7.47E-11	0.00E+00	1.93E-07	2.28E-08	7.18E-08	1.73E-11	0.00E+00	9.46E-08
4239	420834.27	3734344.85	2.42E-07	1.02E-06	4.48E-10	0.00E+00	1.26E-06	3.32E-08	1.40E-07	6.68E-11	0.00E+00	1.73E-07	2.04E-08	6.42E-08	1.55E-11	0.00E+00	8.46E-08
4240	420834.23	3734335.14	2.17E-07	9.17E-07	4.02E-10	0.00E+00	1.13E-06	2.98E-08	1.25E-07	5.99E-11	0.00E+00	1.55E-07	1.83E-08	5.76E-08	1.39E-11	0.00E+00	7.59E-08
4241	420834.2	3734325.44	1.96E-07	8.26E-07	3.62E-10	0.00E+00	1.02E-06	2.68E-08	1.13E-07	5.39E-11	0.00E+00	1.40E-07	1.64E-08	5.19E-08	1.25E-11	0.00E+00	6.83E-08
4242	420834.16	3734315.74	1.76E-07	7.45E-07	3.27E-10	0.00E+00	9.22E-07	2.42E-08	1.02E-07	4.87E-11	0.00E+00	1.26E-07	1.48E-08	4.68E-08	1.13E-11	0.00E+00	6.17E-08
4243	420834.13	3734306.04	1.60E-07	6.74E-07	2.96E-10	0.00E+00	8.34E-07	2.19E-08	9.22E-08	4.40E-11	0.00E+00	1.14E-07	1.34E-08	4.24E-08	1.02E-11	0.00E+00	5.58E-08
4244	420844.41	3734383.62	3.59E-07	1.52E-06	6.65E-10	0.00E+00	1.87E-06	4.92E-08	2.07E-07	9.90E-11	0.00E+00	2.57E-07	3.02E-08	9.52E-08	2.30E-11	0.00E+00	1.25E-07
4245	420844.38	3734373.91	3.17E-07	1.34E-06	5.87E-10	0.00E+00	1.65E-06	4.34E-08	1.83E-07	8.74E-11	0.00E+00	2.26E-07	2.66E-08	8.41E-08	2.03E-11	0.00E+00	1.11E-07
4246	420844.34	3734364.21	2.82E-07	1.19E-06	5.22E-10	0.00E+00	1.47E-06	3.86E-08	1.63E-07	7.78E-11	0.00E+00	2.01E-07	2.37E-08	7.48E-08	1.81E-11	0.00E+00	9.85E-08
4247	420844.31	3734354.51	2.52E-07	1.07E-06	4.68E-10	0.00E+00	1.32E-06	3.46E-08	1.46E-07	6.96E-11	0.00E+00	1.80E-07	2.12E-08	6.70E-08	1.62E-11	0.00E+00	8.82E-08
4248	420844.27	3734344.81	2.27E-07	9.58E-07	4.20E-10	0.00E+00	1.19E-06	3.11E-08	1.31E-07	6.26E-11	0.00E+00	1.62E-07	1.91E-08	6.02E-08	1.45E-11	0.00E+00	7.93E-08
4249	420844.23	3734335.11	2.05E-07	8.65E-07	3.79E-10	0.00E+00	1.07E-06	2.81E-08	1.18E-07	5.65E-11	0.00E+00	1.46E-07	1.72E-08	5.43E-08	1.31E-11	0.00E+00	7.16E-08
4250	420844.2	3734325.4	1.85E-07	7.82E-07	3.43E-10	0.00E+00	9.68E-07	2.54E-08	1.07E-07	5.11E-11	0.00E+00	1.32E-07	1.56E-08	4.92E-08	1.19E-11	0.00E+00	6.48E-08
4251	420844.16	3734315.7	1.68E-07	7.10E-07	3.11E-10	0.00E+00	8.78E-07	2.30E-08	9.71E-08	4.64E-11	0.00E+00	1.20E-07	1.41E-08	4.46E-08	1.08E-11	0.00E+00	5.88E-08
4252	420844.13	3734306	1.53E-07	6.45E-07	2.83E-10	0.00E+00	7.98E-07	2.09E-08	8.82E-08	4.22E-11	0.00E+00	1.09E-07	1.29E-08	4.05E-08	9.79E-12	0.00E+00	5.34E-08
4253	420843.46	3734444.33	9.70E-07	4.10E-06	1.80E-09	0.00E+00	5.07E-06	1.33E-07	5.60E-07	2.68E-10	0.00E+00	6.94E-07	8.16E-08	2.58E-07	6.22E-11	0.00E+00	3.39E-07
4254	420864.41	3734383.54	3.03E-07	1.28E-06	5.62E-10	0.00E+00	1.58E-06	4.16E-08	1.75E-07	8.37E-11	0.00E+00	2.17E-07	2.55E-08	8.05E-08	1.94E-11	0.00E+00	1.06E-07
4255	420864.38	3734373.84	2.71E-07	1.14E-06	5.01E-10	0.00E+00	1.41E-06	3.71E-08	1.56E-07	7.47E-11	0.00E+00	1.93E-07	2.28E-08	7.18E-08	1.73E-11	0.00E+00	9.46E-08
4256	420864.34	3734364.14	2.43E-07	1.03E-06	4.50E-10	0.00E+00	1.27E-06	3.33E-08	1.40E-07	6.71E-11	0.00E+00	1.74E-07	2.04E-08	6.45E-08	1.56E-11	0.00E+00	8.50E-08
4257	420864.31	3734354.44	2.20E-07	9.27E-07	4.07E-10	0.00E+00	1.15E-06	3.01E-08	1.27E-07	6.06E-11	0.00E+00	1.57E-07	1.85E-08	5.83E-08	1.41E-11	0.00E+00	7.68E-08
4258	420864.27	3734344.73	1.99E-07	8.42E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.50E-11	0.00E+00	1.42E-07	1.68E-08	5.29E-08	1.28E-11	0.00E+00	6.97E-08
4259	420864.23	3734335.03	1.82E-07	7.67E-07	3.36E-10	0.00E+00	9.49E-07	2.49E-08	1.05E-07	5.01E-11	0.00E+00	1.30E-07	1.53E-08	4.82E-08	1.16E-11	0.00E+00	6.35E-08
4260	420864.2	3734325.33	1.66E-07	7.00E-07	3.07E-10	0.00E+00	8.66E-07	2.27E-08	9.57E-08	4.58E-11	0.00E+00	1.19E-07	1.40E-08	4.40E-08	1.06E-11	0.00E+00	5.80E-08
4261	420864.16	3734315.63	1.52E-07	6.41E-07	2.81E-10	0.00E+00	7.93E-07	2.08E-08	8.76E-08	4.19E-11	0.00E+00	1.08E-07	1.28E-08	4.03E-08	9.72E-12	0.00E+00	5.31E-08
4262	420864.13	3734305.93	1.39E-07	5.88E-07	2.58E-10	0.00E+00	7.27E-07	1.91E-08	8.04E-08	3.84E-11	0.00E+00	9.95E-08	1.17E-08	3.69E-08	8.91E-12	0.00E+00	4.86E-08
4263	420884.27	3734344.66	1.75E-07	7.41E-07	3.25E-10	0.00E+00	9.17E-07	2.41E-08	1.01E-07	4.84E-11	0.00E+00	1.25E-07	1.48E-08	4.66E-08	1.12E-11	0.00E+00	6.13E-08
4264	420884.23	3734334.96	1.61E-07	6.80E-07	2.98E-10	0.00E+00	8.41E-07	2.21E-08	9.30E-08	4.44E-11	0.00E+00	1.15E-07	1.35E-08	4.27E-08	1.03E-11	0.00E+00	5.63E-08
4265	420884.2	3734325.26	1.48E-07	6.26E-07	2.74E-10	0.00E+00	7.74E-07	2.03E-08	8.55E-08	4.09E-11	0.00E+00	1.06E-07	1.25E-08	3.93E-08	9.49E-12	0.00E+00	5.18E-08
4266	420884.16	3734315.55	1.37E-07	5.77E-07	2.53E-10	0.00E+00	7.14E-07	1.87E-08	7.89E-08	3.77E-11	0.00E+00	9.76E-08	1.15E-08	3.62E-08	8.75E-12	0.00E+00	4.77E-08
4267	420884.13	3734305.85	1.26E-07	5.33E-07	2.34E-10	0.00E+00	6.59E-07	1.73E-08	7.28E-08	3.48E-11	0.00E+00	9.02E-08	1.06E-08	3.35E-08	8.08E-12	0.00E+00	4.41E-08
4268	420884.09	3734296.15	1.17E-07	4.93E-07	2.16E-10	0.00E+00	6.09E-07	1.60E-08	6.74E-08	3.22E-11	0.00E+00	8.34E-08	9.82E-09	3.10E-08	7.47E-12	0.00E+00	4.08E-08
4269	420882.92	3734445.49	6.01E-07	2.54E-06	1.11E-09	0.00E+00	3.14E-06	8.24E-08	3.47E-07	1.66E-10	0.00E+00	4.30E-07	5.06E-08	1.60E-07	3.85E-11	0.00E+00	2.10E-07
4270	420904.41	3734383.39	2.23E-07	9.41E-07	4.13E-10	0.00E+00	1.16E-06	3.05E-08	1.29E-07	6.15E-11	0.00E+00	1.59E-07	1.87E-08	5.91E-08	1.43E-11	0.00E+00	7.79E-08
4271	420904.38	3734373.69	2.02E-07	8.52E-07	3.74E-10	0.00E+00	1.05E-06	2.77E-08	1.17E-07	5.57E-11	0.00E+00	1.44E-07	1.70E-08	5.36E-08	1.29E-11	0.00E+00	7.05E-08
4272	420904.27	3734344.59	1.55E-07	6.54E-07	2.87E-10	0.00E+00	8.09E-07	2.12E-08	8.95E-08	4.28E-11	0.00E+00	1.11E-07	1.30E-08	4.11E-08	9.92E-12	0.00E+00	5.42E-08
4273	420904.23	3734334.88	1.43E-07	6.04E-07	2.65E-10	0.00E+00	7.47E-07	1.96E-08	8.26E-08	3.95E-11	0.00E+00	1.02E-07	1.20E-08	3.79E-08	9.16E-12	0.00E+00	5.00E-08
4274	420904.2	3734325.18	1.32E-07	5.59E-07	2.45E-10	0.00E+00	6.91E-07	1.81E-08	7.64E-08	3.65E-11	0.00E+00	9.46E-08	1.11E-08	3.51E-08	8.48E-12	0.00E+00	4.63E-08
4275	420904.16	3734315.48	1.23E-07	5.18E-07	2.27E-10	0.00E+00	6.41E-07	1.68E-08	7.09E-08	3.39E-11	0.00E+00	8.78E-08	1.03E-08	3.26E-08	7.87E-12	0.00E+00	4.29E-08
4276	420904.12	3734305.78	1.14E-07	4.82E-07	2.11E-10	0.00E+00	5.96E-07	1.56E-08	6.59E-08	3.15E-11	0.00E+00	8.15E-08	9.60E-09	3.03E-08	7.31E-12	0.00E+00	3.99E-08
4277	420904.09	3734296.08	1.06E-07	4.48E-07	1.97E-10	0.00E+00	5.55E-07	1.46E-08	6.13E-08	2.93E-11	0.00E+00	7.59E-08	8.93E-09	2.82E-08	6.80E-12	0.00E+00	3.71E-08
4278	420903.46	3734444.11	4.73E-07	2.00E-06	8.77E-10	0.00E+00	2.47E-06	6.49E-08	2.73E-07	1.31E-10	0.00E+00	3.38E-07	3.98E-08	1.26E-07	3.03E-11	0.00E+00	1.65E-07
4279	420924.41	3734383.32	1.93E-07	8.15E-07	3.58E-10	0.00E+00	1.01E-06	2.65E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.12E-08	1.24E-11	0.00E+00	6.75E-08
4280	420924.38	3734373.62	1.76E-07	7.42E-07	3.26E-10	0.00E+00	9.19E-07	2.41E-08	1.02E-07	4.85E-11	0.00E+00	1.26E-07	1.48E-08	4.67E-08	1.13E-11	0.00E+00	6.15E-08
4281	420924.27	3734344.51	1.37E-07	5.79E-07	2.54E-10	0.00E+00	7.16E-07	1.88E-08	7.92E-08	3.78E-11	0.00E+00	9.80E-08	1.15E-08	3.64E-08	8.78E-12	0.00E+00	4.79E-08
4282	420924.23	3734334.81	1.27E-07	5.37E-07	2.36E-10	0.00E+00	6.65E-07	1.74E-08	7.34E-08	3.51E-11	0.00E+00	9.09E-08	1.07E-08	3.38E-08	8.15E-12	0.00E+00	4.45E-08
4283	420924.2	3734325.11	1.18E-07	5.00E-07	2.19E-10	0.00E+00	6.18E-07	1.62E-08	6.83E-08	3.27E-11	0.00E+00	8.46E-08	9.96E-09	3.14E-08	7.58E-12	0.00E+00	4.14E-08
4284	420924.16	3734315.41	1.10E-07	4.66E-07	2.05E-10	0.00E+00	5.77E-07	1.51E-08	6.37E-08	3.05E-11	0.00E+00	7.89E-08	9.29E-09	2.93E-08	7.07E-12	0.00E+00	3.86E-08
4285	420924.12	3734305.7	1.03E-07	4.35E-07	1.91E-10	0.00E+00	5.39E-07	1.41E-08	5.95E-08	2.85E-11	0.00E+00	7.37E-08	8.68E-09	2.74E-08	6.61E-12	0.00E+00	3.60E-08
4286	420924.09	3734296	9.64E-08	4.07E-07	1.79E-10	0.00E+00	5.04E-07	1.32E-08	5.57E-08	2.66E-11	0.00E+00	6.89E-08	8.11E-09	2.56E-08	6.18E-12	0.00E+00	3.37E-08
4287	420922.58	3734446.16	4.02E-07	1.70E-06	7.45E-10	0.00E+00	2.10E-06	5.51E-08	2.32E-07	1.11E-10	0.00E+00	2.87E-07	3.38E-08	1.07E-07	2.57E-11	0.00E+00	1.40E-07
4288	420904.36	3734490.5	8.28E-07	3.50E-06	1.53E-09	0.00E+00	4.32E-06	1.13E-07	4.78E-07	2.28E-10	0.00E+00	5.92E-07	6.96E-08	2.20E-07	5.30E-11	0.00E+00	2.89E-07
4289	420944.41	3734383.25	1.68E-07	7.11E-07	3.12E-10	0.00E+00	8.79E-07	2.31E-08	9.72E-08	4.64E-11	0.00E+00	1.20E-07	1.42E-08	4.47E-08	1.08E-11	0.00E+00	5.88E-08
4290	420944.38	3734373.54	1.54E-07	6.51E-07	2.86E-10	0.00E+00	8.06E-07	2.11E-08	8.90E-08	4.25E-11	0.00E+00	1.10E-07	1.30E-08	4.09E-08	9.88E-12	0.00E+00	5.39E-08
4291	420944.27	3734344.44	1.22E-07	5.15E-07	2.26E-10	0.00E+00	6.37E-07	1.67E-08	7.04E-08	3.36E-11	0.00E+00	8.71E-08	1.03E-08	3.23E-08	7.81E-12	0.00E+00	4.26E-08
4292	420944.23	3734334.74	1.14E-07	4.79E-07	2.10E-10	0.00E+00	5.93E-07	1.56E-08	6.56E-08	3.13E-11	0.00E+00	8.12E-08	9.55E-09	3.01E-08	7.27E-12	0.00E+00	3.97E-08
4293	420944.2	3734325.03	1.06E-07	4.48E-07	1.96E-10	0.00E+00	5.54E-07	1.45E-08	6.12E-08	2.93E-11	0.00E+00	7.58E-08	8.92E-09	2.81E-08	6.79E-12	0.00E+00	3.71E-08
4294	420944.16	3734315.33	9.93E-08	4.19E-07	1.84E-10	0.00E+00	5.19E-07	1.36E-08	5.73E-08	2.74E-11	0.00E+00	7.10E-08	8.35E-09	2.63E-08	6.36E-12	0.00E+00	3.47E-08
4295	420944.12	3734305.63	9.32E-08	3.93E-07	1.73E-10	0.00E+00	4.87E-07	1.28E-08	5.38E-08	2.57E-11	0.00E+00	6.66E-08	7.84E-09	2.47E-08	5.97E-12	0.00E+00	3.26E-08
4296	420944.09	3734295.93	8.75E-08	3.70E-07	1.62E-10	0.00E+00	4.57E-07	1.20E-08	5.05E-08	2.41E-11	0.00E+00	6.25E-08	7.36E-09	2.32E-08	5.61E-12	0.00E+00	3.06E-08
4297	420943.07	3734444.9	3.28E-07	1.39E-06	6.08E-10	0.00E+00	1.71E-06	4.50E-08	1.90E-07	9.06E-11	0.00E+00	2.35E-07	2.76E-08	8.71E-08	2.10E-11	0.00E+00	1.15E-07
4298	420964.41	3734383.17	1.48E-07	6.24E-07	2.74E-10	0.00E+00	7.72E-07	2.03E-08	8.53E-08	4.08E-11	0.00E+00	1.06E-07	1.24E-08	3.92E-08	9.47E-12	0.00E+00	5.17E-08
4299	420964.38	3734373.47	1.36E-07	5.75E-07	2.52E-10	0.00E+00	7.11E-07	1.87E-08	7.86E-08	3.76E-11	0.00E+00	9.73E-08	1.15E-08	3.61E-08	8.72E-12	0.00E+00	4.76E-08
4300	420964.27	3734344.36	1.09E-07	4.59E-07	2.02E-10	0.00E+00	5.69E-07	1.49E-08	6.28E-08	3.00E-11	0.00E+00	7.78E-08	9.16E-09	2.89E-08	6.97E-12	0.00E+00	3.80E-08
4301	420964.23	3734334.66	1.02E-07	4.29E-07	1.88E-10	0.00E+00	5.31E-07	1.39E-08	5.87E-08	2.81E-11	0.00E+00	7.27E-08	8.55E-09	2.70E-08	6.51E-12	0.00E+00	3.55E-08
4302	420964.2	3734324.96	9.53E-08	4.02E-07	1.76E-10	0.00E+00	4.98E-07	1.31E-08	5.50E-08	2.63E-11	0.00E+00	6.81E-08	8.01E-09	2.53E-08	6.10E-12	0.00E+00	3.33E-08
4303	420964.16	3734315.26	8.95E-08	3.78E-07	1.66E-10	0.00E+00	4.67E-07	1.23E-08	5.17E-08	2.47E-11	0.00E+00	6.39E-08	7.53E-09	2.37E-08	5.73E-12	0.00E+00	3.13E-08
4304	420964.12	3734305.56	8.42E-08	3.56E-07	1.56E-10	0.00E+00	4.40E-07	1.15E-08	4.86E-08	2.32E-11	0.00E+00	6.02E-08	7.09E-09	2.23E-08	5.40E-12	0.00E+00	2.94E-08
4305	420964.09	3734295.85	7.94E-08	3.35E-07	1.47E-10	0.00E+00	4.15E-07	1.09E-08	4.59E-08	2.19E-11	0.00E+00	5.68E-08	6.68E-09	2.11E-08	5.09E-12	0.00E+00	2.78E-08
4306	420943.93	3734491.38	5.37E-07	2.27E-06	9.95E-10	0.00E+00	2.81E-06	7.36E-08	3.10E-07	1.48E-10	0.00E+00	3.84E-07	4.52E-08	1.43E-07	3.44E-11	0.00E+00	1.88E-07
4307	420940.25	3734500.35	6.07E-07	2.56E-06	1.13E-09	0.00E+00	3.17E-06	8.32E-08	3.51E-07	1.68E-10	0.00E+00	4.34E-07	5.11E-08	1.61E-07	3.89E-11	0.00E+00	2.12E-07
4308	420887.62	3734574.23	1.72E-06	7.25E-06	3.18E-09	0.00E+00	8.97E-06	2.35E-07	9.92E-07	4.74E-10	0.00E+00	1.23E-06	1.45E-07	4.56E-07	1.10E-10	0.00E+00	6.00E-07
4309	420807.09	3734607.68	3.92E-06	1.66E-05	7.27E-09	0.00E+00	2.05E-05	5.38E-07	2.27E-06	1.08E-09	0.00E+00	2.80E-06	3.30E-07	1.04E-06	2.51E-10	0.00E+00	1.37E-06
4310	420964.74	3734489.35	4.30E-07	1.82E-06	7.97E-10	0.00E+00	2.25E-06	5.89E-08	2.48E-07	1.19E-10	0.00E+00	3.07E-07	3.62E-08	1.14E-07	2.75E-11	0.00E+00	1.50E-07
4311	420902.33	3734588.12	1.47E-06	6.21E-06	2.72E-09	0.00E+00	7.68E-06	2.02E-07	8.49E-07	4.06E-10	0.00E+00	1.05E-06	1.24E-07	3.90E-07	9.42E-11	0.00E+00	5.14E-07
4312	420823.39	3734620.91	3.04E-06	1.28E-05	5.64E-09	0.00E+00	1.59E-05	4.17E-07	1.76E-06	8.40E-10	0.00E+00	2.17E-06	2.56E-07	8.07E-07	1.95E-10	0.00E+00	1.06E-06
4313	421004.41	3734383.02	1.16E-07	4.91E-07	2.16E-10	0.00E+00	6.08E-07	1.59E-08	6.72E-08	3.21E-11	0.00E+00	8.31E-08	9.79E-09	3.09E-08	7.45E-12	0.00E+00	4.07E-08
4314	421004.38	3734373.32	1.08E-07	4.56E-07	2.00E-10	0.00E+00	5.64E-07	1.48E-08	6.23E-08	2.98E-11	0.00E+00	7.71E-08	9.08E-09	2.86E-08	6.91E-12	0.00E+00	3.77E-08
4315	421004.27	3734344.22	8.78E-08	3.71E-07	1.63E-10	0.00E+00	4.58E-07	1.20E-08	5.07E-08	2.42E-11	0.00E+00	6.27E-08	7.38E-09	2.33E-08	5.62E-12	0.00E+00	3.07E-08
4316	421004.23	3734334.51	8.24E-08	3.48E-07	1.53E-10	0.00E+00	4.31E-07	1.13E-08	4.76E-08	2.27E-11	0.00E+00	5.89E-08	6.93E-09	2.19E-08	5.28E-12	0.00E+00	2.88E-08
4317	421004.2	3734324.81	7.76E-08	3.28E-07	1.44E-10	0.00E+00	4.05E-07	1.06E-08	4.48E-08	2.14E-11	0.00E+00	5.55E-08	6.53E-09	2.06E-08	4.97E-12	0.00E+00	2.71E-08
4318	421004.16	3734315.11	7.33E-08	3.09E-07	1.36E-10	0.00E+00	3.83E-07	1.00E-08	4.23E-08	2.02E-11	0.00E+00	5.24E-08	6.16E-09	1.94E-08	4.69E-12	0.00E+00	2.56E-08
4319	421004.12	3734305.41	6.94E-08	2.93E-07	1.29E-10	0.00E+00	3.62E-07	9.51E-09	4.00E-08	1.91E-11	0.00E+00	4.96E-08	5.83E-09	1.84E-08	4.44E-12	0.00E+00	2.42E-08
4320	421004.09	3734295.71	6.58E-08	2.78E-07	1.22E-10	0.00E+00	3.44E-07	9.02E-09	3.80E-08	1.82E-11	0.00E+00	4.70E-08	5.54E-09	1.75E-08	4.22E-12	0.00E+00	2.30E-08

4321	421003.15	3734444.48	2.04E-07	8.59E-07	3.77E-10	0.00E+00	1.06E-06	2.79E-08	1.18E-07	5.62E-11	0.00E+00	1.45E-07	1.71E-08	5.40E-08	1.30E-11	0.00E+00	7.11E-08
4322	420891.06	3734612.8	1.65E-06	6.96E-06	3.06E-09	0.00E+00	8.62E-06	2.26E-07	9.52E-07	4.55E-10	0.00E+00	1.18E-06	1.39E-07	4.38E-07	1.06E-10	0.00E+00	5.77E-07
4323	420839.32	3734634.29	2.43E-06	1.02E-05	4.50E-09	0.00E+00	1.27E-05	3.33E-07	1.40E-06	6.69E-10	0.00E+00	1.73E-06	2.04E-07	6.44E-07	1.55E-10	0.00E+00	8.48E-07
4324	421024.41	3734382.95	1.04E-07	4.39E-07	1.92E-10	0.00E+00	5.43E-07	1.42E-08	6.00E-08	2.87E-11	0.00E+00	7.42E-08	8.74E-09	2.76E-08	6.65E-12	0.00E+00	3.63E-08
4325	421024.38	3734373.25	9.66E-08	4.08E-07	1.79E-10	0.00E+00	5.05E-07	1.32E-08	5.58E-08	2.67E-11	0.00E+00	6.90E-08	8.13E-09	2.56E-08	6.19E-12	0.00E+00	3.38E-08
4326	421024.27	3734344.14	7.93E-08	3.35E-07	1.47E-10	0.00E+00	4.14E-07	1.09E-08	4.58E-08	2.19E-11	0.00E+00	5.67E-08	6.67E-09	2.10E-08	5.08E-12	0.00E+00	2.77E-08
4327	421024.23	3734334.44	7.47E-08	3.15E-07	1.38E-10	0.00E+00	3.90E-07	1.02E-08	4.31E-08	2.06E-11	0.00E+00	5.34E-08	6.28E-09	1.98E-08	4.78E-12	0.00E+00	2.61E-08
4328	421024.2	3734324.74	7.04E-08	2.97E-07	1.31E-10	0.00E+00	3.68E-07	9.66E-09	4.07E-08	1.94E-11	0.00E+00	5.04E-08	5.93E-09	1.87E-08	4.51E-12	0.00E+00	2.46E-08
4329	421024.16	3734315.04	6.66E-08	2.81E-07	1.23E-10	0.00E+00	3.48E-07	9.14E-09	3.85E-08	1.84E-11	0.00E+00	4.76E-08	5.61E-09	1.77E-08	4.27E-12	0.00E+00	2.33E-08
4330	421024.12	3734305.33	6.32E-08	2.67E-07	1.17E-10	0.00E+00	3.30E-07	8.67E-09	3.65E-08	1.74E-11	0.00E+00	4.52E-08	5.32E-09	1.68E-08	4.05E-12	0.00E+00	2.21E-08
4331	421024.09	3734295.63	6.01E-08	2.54E-07	1.11E-10	0.00E+00	3.14E-07	8.24E-09	3.47E-08	1.66E-11	0.00E+00	4.30E-08	5.06E-09	1.60E-08	3.85E-12	0.00E+00	2.10E-08
4332	421022.58	3734445.79	1.80E-07	7.60E-07	3.34E-10	0.00E+00	9.40E-07	2.47E-08	1.04E-07	4.97E-11	0.00E+00	1.29E-07	1.51E-08	4.78E-08	1.15E-11	0.00E+00	6.29E-08
4333	421004.36	3734490.13	3.06E-07	1.29E-06	5.67E-10	0.00E+00	1.60E-06	4.20E-08	1.77E-07	8.45E-11	0.00E+00	2.19E-07	2.58E-08	8.13E-08	1.96E-11	0.00E+00	1.07E-07
4334	420975.2	3734561.08	6.24E-07	2.63E-06	1.16E-09	0.00E+00	3.26E-06	8.55E-08	3.60E-07	1.72E-10	0.00E+00	4.46E-07	5.25E-08	1.65E-07	4.00E-11	0.00E+00	2.18E-07
4335	420971.55	3734569.95	6.68E-07	2.82E-06	1.24E-09	0.00E+00	3.49E-06	9.15E-08	3.86E-07	1.84E-10	0.00E+00	4.77E-07	5.62E-08	1.77E-07	4.28E-11	0.00E+00	2.33E-07
4336	420967.91	3734578.82	7.12E-07	3.00E-06	1.32E-09	0.00E+00	3.72E-06	9.75E-08	4.11E-07	1.96E-10	0.00E+00	5.09E-07	5.99E-08	1.89E-07	4.56E-11	0.00E+00	2.49E-07
4337	420964.26	3734587.69	7.59E-07	3.20E-06	1.41E-09	0.00E+00	3.96E-06	1.04E-07	4.38E-07	2.09E-10	0.00E+00	5.42E-07	6.38E-08	2.01E-07	4.86E-11	0.00E+00	2.65E-07
4338	420930.41	3734616.46	1.11E-06	4.67E-06	2.05E-09	0.00E+00	5.78E-06	1.52E-07	6.39E-07	3.05E-10	0.00E+00	7.91E-07	9.31E-08	2.94E-07	7.09E-11	0.00E+00	3.87E-07
4339	420850.71	3734649.56	2.01E-06	8.50E-06	3.73E-09	0.00E+00	1.05E-05	2.76E-07	1.16E-06	5.55E-10	0.00E+00	1.44E-06	1.69E-07	5.34E-07	1.29E-10	0.00E+00	7.03E-07
4340	421044.45	3734392.58	9.90E-08	4.18E-07	1.83E-10	0.00E+00	5.17E-07	1.36E-08	5.71E-08	2.73E-11	0.00E+00	7.07E-08	8.33E-09	2.63E-08	6.34E-12	0.00E+00	3.46E-08
4341	421044.41	3734382.87	9.31E-08	3.93E-07	1.73E-10	0.00E+00	4.86E-07	1.28E-08	5.38E-08	2.57E-11	0.00E+00	6.66E-08	7.83E-09	2.47E-08	5.97E-12	0.00E+00	3.26E-08
4342	421044.38	3734373.17	8.70E-08	3.67E-07	1.61E-10	0.00E+00	4.54E-07	1.19E-08	5.02E-08	2.40E-11	0.00E+00	6.22E-08	7.32E-09	2.31E-08	5.57E-12	0.00E+00	3.04E-08
4343	421044.27	3734344.07	7.18E-08	3.03E-07	1.33E-10	0.00E+00	3.75E-07	9.85E-09	4.15E-08	1.98E-11	0.00E+00	5.13E-08	6.04E-09	1.91E-08	4.60E-12	0.00E+00	2.51E-08
4344	421044.23	3734334.36	6.78E-08	2.86E-07	1.26E-10	0.00E+00	3.54E-07	9.29E-09	3.91E-08	1.87E-11	0.00E+00	4.84E-08	5.70E-09	1.80E-08	4.34E-12	0.00E+00	2.37E-08
4345	421044.2	3734324.66	6.41E-08	2.71E-07	1.19E-10	0.00E+00	3.35E-07	8.79E-09	3.70E-08	1.77E-11	0.00E+00	4.58E-08	5.39E-09	1.70E-08	4.11E-12	0.00E+00	2.24E-08
4346	421044.16	3734314.96	6.08E-08	2.57E-07	1.13E-10	0.00E+00	3.17E-07	8.33E-09	3.51E-08	1.68E-11	0.00E+00	4.34E-08	5.11E-09	1.61E-08	3.89E-12	0.00E+00	2.12E-08
4347	421044.12	3734305.26	5.78E-08	2.44E-07	1.07E-10	0.00E+00	3.02E-07	7.92E-09	3.33E-08	1.59E-11	0.00E+00	4.13E-08	4.86E-09	1.53E-08	3.70E-12	0.00E+00	2.02E-08
4348	421062.42	3734446.04	1.37E-07	5.77E-07	2.53E-10	0.00E+00	7.13E-07	1.87E-08	7.88E-08	3.77E-11	0.00E+00	9.76E-08	1.15E-08	3.62E-08	8.75E-12	0.00E+00	4.77E-08
4349	421055.07	3734463.9	1.67E-07	7.06E-07	3.10E-10	0.00E+00	8.74E-07	2.29E-08	9.65E-08	4.61E-11	0.00E+00	1.20E-07	1.41E-08	4.44E-08	1.07E-11	0.00E+00	5.85E-08
4350	421051.4	3734472.84	1.85E-07	7.80E-07	3.42E-10	0.00E+00	9.65E-07	2.53E-08	1.07E-07	5.10E-11	0.00E+00	1.32E-07	1.55E-08	4.90E-08	1.18E-11	0.00E+00	6.46E-08
4351	421047.73	3734481.77	2.04E-07	8.61E-07	3.78E-10	0.00E+00	1.07E-06	2.79E-08	1.18E-07	5.63E-11	0.00E+00	1.46E-07	1.72E-08	5.41E-08	1.31E-11	0.00E+00	7.13E-08
4352	421044.06	3734490.71	2.24E-07	9.48E-07	4.16E-10	0.00E+00	1.17E-06	3.08E-08	1.30E-07	6.20E-11	0.00E+00	1.60E-07	1.89E-08	5.96E-08	1.44E-11	0.00E+00	7.85E-08
4353	421014.69	3734562.18	4.44E-07	1.88E-06	8.23E-10	0.00E+00	2.32E-06	6.09E-08	2.57E-07	1.23E-10	0.00E+00	3.18E-07	3.74E-08	1.18E-07	2.85E-11	0.00E+00	1.55E-07
4354	420992.66	3734615.79	6.35E-07	2.68E-06	1.18E-09	0.00E+00	3.32E-06	8.70E-08	3.67E-07	1.75E-10	0.00E+00	4.54E-07	5.34E-08	1.69E-07	4.07E-11	0.00E+00	2.22E-07
4355	420988.98	3734624.73	6.65E-07	2.81E-06	1.23E-09	0.00E+00	3.47E-06	9.11E-08	3.84E-07	1.83E-10	0.00E+00	4.75E-07	5.59E-08	1.76E-07	4.26E-11	0.00E+00	2.32E-07
4356	420958.55	3734644.77	8.68E-07	3.66E-06	1.61E-09	0.00E+00	4.53E-06	1.19E-07	5.01E-07	2.39E-10	0.00E+00	6.20E-07	7.30E-08	2.30E-07	5.56E-11	0.00E+00	3.03E-07
4357	420878.26	3734678.12	1.42E-06	5.99E-06	2.63E-09	0.00E+00	7.41E-06	1.94E-07	8.19E-07	3.91E-10	0.00E+00	1.01E-06	1.19E-07	3.76E-07	9.09E-11	0.00E+00	4.96E-07
4358	421052.96	3734566.22	3.36E-07	1.42E-06	6.23E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.28E-11	0.00E+00	2.40E-07	2.83E-08	8.92E-08	2.15E-11	0.00E+00	1.18E-07
4359	421049.39	3734574.92	3.59E-07	1.52E-06	6.65E-10	0.00E+00	1.88E-06	4.92E-08	2.07E-07	9.91E-11	0.00E+00	2.57E-07	3.02E-08	9.53E-08	2.30E-11	0.00E+00	1.25E-07
4360	421045.82	3734583.62	3.82E-07	1.61E-06	7.08E-10	0.00E+00	2.00E-06	5.24E-08	2.21E-07	1.05E-10	0.00E+00	2.73E-07	3.21E-08	1.01E-07	2.45E-11	0.00E+00	1.33E-07
4361	421042.24	3734592.31	4.05E-07	1.71E-06	7.50E-10	0.00E+00	2.11E-06	5.55E-08	2.34E-07	1.12E-10	0.00E+00	2.89E-07	3.41E-08	1.07E-07	2.59E-11	0.00E+00	1.42E-07
4362	420987.6	3734672.71	6.86E-07	2.90E-06	1.27E-09	0.00E+00	3.58E-06	9.40E-08	3.96E-07	1.89E-10	0.00E+00	4.90E-07	5.77E-08	1.82E-07	4.39E-11	0.00E+00	2.40E-07
4363	420961.55	3734683.53	8.08E-07	3.41E-06	1.50E-09	0.00E+00	4.22E-06	1.11E-07	4.66E-07	2.23E-10	0.00E+00	5.77E-07	6.80E-08	2.14E-07	5.17E-11	0.00E+00	2.82E-07
4364	420909.44	3734705.17	1.04E-06	4.38E-06	1.92E-09	0.00E+00	5.41E-06	1.42E-07	5.98E-07	2.86E-10	0.00E+00	7.41E-07	8.72E-08	2.75E-07	6.64E-11	0.00E+00	3.62E-07
4365	421124.45	3734392.28	6.79E-08	2.87E-07	1.26E-10	0.00E+00	3.55E-07	9.31E-09	3.92E-08	1.87E-11	0.00E+00	4.85E-08	5.71E-09	1.80E-08	4.35E-12	0.00E+00	2.37E-08
4366	421124.41	3734382.58	6.38E-08	2.69E-07	1.18E-10	0.00E+00	3.33E-07	8.74E-09	3.68E-08	1.76E-11	0.00E+00	4.56E-08	5.36E-09	1.69E-08	4.08E-12	0.00E+00	2.23E-08
4367	421124.38	3734372.88	6.00E-08	2.53E-07	1.11E-10	0.00E+00	3.14E-07	8.23E-09	3.47E-08	1.66E-11	0.00E+00	4.29E-08	5.05E-09	1.59E-08	3.85E-12	0.00E+00	2.10E-08
4368	421124.3	3734353.47	5.35E-08	2.26E-07	9.92E-11	0.00E+00	2.80E-07	7.34E-09	3.09E-08	1.48E-11	0.00E+00	3.83E-08	4.50E-09	1.42E-08	3.43E-12	0.00E+00	1.87E-08
4369	421124.27	3734343.77	5.07E-08	2.14E-07	9.40E-11	0.00E+00	2.65E-07	6.95E-09	2.93E-08	1.40E-11	0.00E+00	3.62E-08	4.27E-09	1.35E-08	3.25E-12	0.00E+00	1.77E-08
4370	421124.23	3734334.07	4.81E-08	2.03E-07	8.92E-11	0.00E+00	2.52E-07	6.60E-09	2.78E-08	1.33E-11	0.00E+00	3.44E-08	4.05E-09	1.28E-08	3.08E-12	0.00E+00	1.68E-08
4371	421124.2	3734324.37	4.58E-08	1.93E-07	8.49E-11	0.00E+00	2.39E-07	6.28E-09	2.64E-08	1.26E-11	0.00E+00	3.27E-08	3.85E-09	1.22E-08	2.93E-12	0.00E+00	1.60E-08
4372	421124.16	3734314.66	4.37E-08	1.84E-07	8.09E-11	0.00E+00	2.28E-07	5.99E-09	2.52E-08	1.21E-11	0.00E+00	3.12E-08	3.67E-09	1.16E-08	2.80E-12	0.00E+00	1.53E-08
4373	421124.12	3734304.96	4.17E-08	1.76E-07	7.73E-11	0.00E+00	2.18E-07	5.72E-09	2.41E-08	1.15E-11	0.00E+00	2.98E-08	3.51E-09	1.11E-08	2.67E-12	0.00E+00	1.46E-08
4374	421124.09	3734295.26	3.99E-08	1.69E-07	7.40E-11	0.00E+00	2.09E-07	5.47E-09	2.31E-08	1.10E-11	0.00E+00	2.85E-08	3.36E-09	1.06E-08	2.56E-12	0.00E+00	1.40E-08
4375	421142.84	3734444.72	8.64E-08	3.65E-07	1.60E-10	0.00E+00	4.51E-07	1.18E-08	4.99E-08	2.38E-11	0.00E+00	6.17E-08	7.27E-09	2.29E-08	5.53E-12	0.00E+00	3.02E-08
4376	421135.63	3734462.25	1.01E-07	4.24E-07	1.86E-10	0.00E+00	5.25E-07	1.38E-08	5.80E-08	2.77E-11	0.00E+00	7.18E-08	8.46E-09	2.67E-08	6.44E-12	0.00E+00	3.51E-08
4377	421132.03	3734471.01	1.10E-07	4.63E-07	2.03E-10	0.00E+00	5.73E-07	1.50E-08	6.33E-08	3.02E-11	0.00E+00	7.83E-08	9.22E-09	2.91E-08	7.02E-12	0.00E+00	3.83E-08
4378	421128.43	3734479.78	1.19E-07	5.04E-07	2.21E-10	0.00E+00	6.24E-07	1.64E-08	6.90E-08	3.30E-11	0.00E+00	8.54E-08	1.00E-08	3.17E-08	7.65E-12	0.00E+00	4.18E-08
4379	421124.83	3734488.54	1.30E-07	5.49E-07	2.41E-10	0.00E+00	6.80E-07	1.78E-08	7.51E-08	3.59E-11	0.00E+00	9.30E-08	1.09E-08	3.45E-08	8.33E-12	0.00E+00	4.55E-08
4380	421088.81	3734576.19	2.74E-07	1.16E-06	5.08E-10	0.00E+00	1.43E-06	3.76E-08	1.58E-07	7.57E-11	0.00E+00	1.96E-07	2.31E-08	7.28E-08	1.76E-11	0.00E+00	9.59E-08
4381	421085.21	3734584.95	2.92E-07	1.23E-06	5.41E-10	0.00E+00	1.52E-06	4.00E-08	1.69E-07	8.05E-11	0.00E+00	2.09E-07	2.46E-08	7.74E-08	1.87E-11	0.00E+00	1.02E-07
4382	421081.61	3734593.71	3.09E-07	1.31E-06	5.73E-10	0.00E+00	1.62E-06	4.24E-08	1.79E-07	8.54E-11	0.00E+00	2.21E-07	2.60E-08	8.21E-08	1.98E-11	0.00E+00	1.08E-07
4383	421078	3734602.48	3.27E-07	1.38E-06	6.05E-10	0.00E+00	1.71E-06	4.48E-08	1.89E-07	9.02E-11	0.00E+00	2.34E-07	2.75E-08	8.67E-08	2.09E-11	0.00E+00	1.14E-07
4384	421074.4	3734611.24	3.44E-07	1.45E-06	6.37E-10	0.00E+00	1.80E-06	4.71E-08	1.98E-07	9.48E-11	0.00E+00	2.46E-07	2.89E-08	9.12E-08	2.20E-11	0.00E+00	1.20E-07
4385	421033.23	3734693.76	4.96E-07	2.09E-06	9.18E-10	0.00E+00	2.59E-06	6.79E-08	2.86E-07	1.37E-10	0.00E+00	3.54E-07	4.17E-08	1.31E-07	3.17E-11	0.00E+00	1.73E-07
4386	421024.48	3734697.39	5.23E-07	2.21E-06	9.70E-10	0.00E+00	2.73E-06	7.18E-08	3.02E-07	1.44E-10	0.00E+00	3.74E-07	4.40E-08	1.39E-07	3.35E-11	0.00E+00	1.83E-07
4387	421015.73	3734701.03	5.52E-07	2.33E-06	1.02E-09	0.00E+00	2.88E-06	7.57E-08	3.19E-07	1.52E-10	0.00E+00	3.95E-07	4.65E-08	1.47E-07	3.54E-11	0.00E+00	1.93E-07
4388	420989.48	3734711.93	6.38E-07	2.69E-06	1.18E-09	0.00E+00	3.33E-06	8.74E-08	3.68E-07	1.76E-10	0.00E+00	4.56E-07	5.36E-08	1.69E-07	4.08E-11	0.00E+00	2.23E-07
4389	420980.73	3734715.56	6.65E-07	2.81E-06	1.23E-09	0.00E+00	3.47E-06	9.11E-08	3.84E-07	1.83E-10	0.00E+00	4.75E-07	5.59E-08	1.76E-07	4.26E-11	0.00E+00	2.32E-07
4390	420971.98	3734719.2	6.92E-07	2.92E-06	1.28E-09	0.00E+00	3.61E-06	9.48E-08	3.99E-07	1.91E-10	0.00E+00	4.94E-07	5.82E-08	1.84E-07	4.43E-11	0.00E+00	2.42E-07
4391	421164.3	3734353.32	4.58E-08	1.93E-07	8.49E-11	0.00E+00	2.39E-07	6.28E-09	2.64E-08	1.26E-11	0.00E+00	3.27E-08	3.85E-09	1.22E-08	2.93E-12	0.00E+00	1.60E-08
4392	421164.27	3734343.62	4.35E-08	1.84E-07	8.06E-11	0.00E+00	2.27E-07	5.96E-09	2.51E-08	1.20E-11	0.00E+00	3.11E-08	3.66E-09	1.15E-08	2.79E-12	0.00E+00	1.52E-08
4393	421164.23	3734333.92	4.14E-08	1.75E-07	7.67E-11	0.00E+00	2.16E-07	5.67E-09	2.39E-08	1.14E-11	0.00E+00	2.96E-08	3.48E-09	1.10E-08	2.65E-12	0.00E+00	1.45E-08
4394	421164.2	3734324.22	3.94E-08	1.67E-07	7.31E-11	0.00E+00	2.06E-07	5.41E-09	2.28E-08	1.09E-11	0.00E+00	2.82E-08	3.32E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
4395	421164.16	3734314.52	3.77E-08	1.59E-07	6.98E-11	0.00E+00	1.97E-07	5.16E-09	2.17E-08	1.04E-11	0.00E+00	2.69E-08	3.17E-09	1.00E-08	2.41E-12	0.00E+00	1.32E-08
4396	421164.12	3734304.81	3.60E-08	1.52E-07	6.68E-11	0.00E+00	1.88E-07	4.94E-09	2.08E-08	9.95E-12	0.00E+00	2.58E-08	3.03E-09	9.57E-09	2.31E-12	0.00E+00	1.26E-08
4397	421164.09	3734295.11	3.46E-08	1.46E-07	6.40E-11	0.00E+00	1.81E-07	4.74E-09	2.00E-08	9.54E-12	0.00E+00	2.47E-08	2.91E-09	9.17E-09	2.21E-12	0.00E+00	1.21E-08
4398	421182.7	3734444.91	7.36E-08	3.11E-07	1.36E-10	0.00E+00	3.84E-07	1.01E-08	4.25E-08	2.03E-11	0.00E+00	5.26E-08	6.19E-09	1.95E-08	4.71E-12	0.00E+00	2.57E-08
4399	421175.45	3734462.55	8.48E-08	3.58E-07	1.57E-10	0.00E+00	4.43E-07	1.16E-08	4.90E-08	2.34E-11	0.00E+00	6.06E-08	7.13E-09	2.25E-08	5.43E-12	0.00E+00	2.96E-08
4400	421171.82	3734471.37	9.16E-08	3.87E-07	1.70E-10	0.00E+00	4.78E-07	1.26E-08	5.29E-08	2.53E-11	0.00E+00	6.55E-08	7.70E-09	2.43E-08	5.87E-12	0.00E+00	3.20E-08
4401	421168.2	3734480.19	9.88E-08	4.17E-07	1.83E-10	0.00E+00	5.16E-07	1.35E-08	5.70E-08	2.73E-11	0.00E+00	7.06E-08	8.31E-09	2.62E-08	6.33E-12	0.00E+00	3.45E-08
4402	421164.57	3734489.01	1.06E-07	4.49E-07	1.97E-10	0.00E+00	5.56E-07	1.46E-08	6.15E-08	2.94E-11	0.00E+00	7.61E-08	8.95E-09	2.82E-08	6.82E-12	0.00E+00	3.72E-08
4403	421131.95	3734568.4	1.99E-07	8.38E-07	3.68E-10	0.00E+00	1.04E-06	2.72E-08	1.15E-07	5.48E-11	0.00E+00	1.42E-07	1.67E-08	5.27E-08	1.27E-11	0.00E+00	6.94E-08
4404	421128.32	3734577.22	2.12E-07	8.95E-07	3.93E-10	0.00E+00	1.11E-06	2.91E-08	1.22E-07	5.85E-11	0.00E+00	1.52E-07	1.78E-08	5.63E-08	1.36E-11	0.00E+00	7.41E-08
4405	421124.7	3734586.04	2.26E-07	9.53E-07	4.18E-10	0.00E+00	1.18E-06	3.09E-08	1.30E-07	6.23E-11	0.00E+00	1.61E-07	1.90E-08	5.99E-08	1.45E-11	0.00E+00	7.89E-08
4406	421121.07	3734594.86	2.40E-07	1.01E-06	4.44E-10	0.00E+00	1.25E-06	3.28E-08	1.38E-07	6.61E-11	0.00E+00	1.71E-07	2.02E-08	6.36E-08	1.53E-11	0.00E+00	8.37E-08
4407	421117.45	3734603.68	2.54E-07	1.07E-06	4.70E-10	0.00E+00	1.32E-06	3.48E-08	1.46E-07	7.00E-11	0.00E+00	1.81E-07	2.13E-08	6.73E-08	1.62E-11	0.00E+00	8.86E-08
4408	421061.51	3734722.01	4.14E-07	1.75E-06	7.68E-10	0.00E+00	2.17E-06	5.68E-08	2.39E-07	1.14E-10	0.00E+00	2.96E-07	3.49E-08	1.10E-07	2.66E-11	0.00E+00	1.45E-07
4409	421052.71	3734725.67	4.35E-07	1.84E-06	8.06E-10	0.00E+00	2.27E-06	5.96E-08	2.51E-07	1.20E-10	0.00E+00	3.11E-07	3.66E-08	1.15E-07	2.79E-11	0.00E+00	1.52E-07
4410	421043.9	3734729.33	4.55E-07	1.92E-06	8.43E-10	0.00E+00	2.38E-06	6.24E-08	2.63E-07	1.26E-10	0.00E+00	3.25E-07	3.83E-08	1.21E-07	2.91E-11	0.00E+00	1.59E-07
4411	420964.63	3734762.25	6.14E-07	2.59E-06	1.14E-09	0.00E+00	3.21E-06	8.42E-08	3.55E-07	1.69E-10	0.00E+00	4.39E-07	5.17E-08	1.63E-07	3.93E-11	0.00E+00	2.15E-07
4412	420955.83	3734765.91	6.30E-07	2.66E-06	1.17E-09	0.00E+00	3.29E-06	8.64E-08	3.64E-07	1.74E-10	0.00E+00	4.50E-07	5.30E-08	1.67E-07	4.04E-11	0.00E+00	2.20E-07

4413	420947.02	3734769.56	6.46E-07	2.73E-06	1.20E-09	0.00E+00	3.37E-06	8.85E-08	3.73E-07	1.78E-10	0.00E+00	4.62E-07	5.43E-08	1.71E-07	4.14E-11	0.00E+00	2.26E-07
4414	420938.21	3734773.22	6.59E-07	2.78E-06	1.22E-09	0.00E+00	3.44E-06	9.03E-08	3.80E-07	1.82E-10	0.00E+00	4.71E-07	5.54E-08	1.75E-07	4.22E-11	0.00E+00	2.30E-07
4415	420929.4	3734776.88	6.69E-07	2.82E-06	1.24E-09	0.00E+00	3.49E-06	9.17E-08	3.86E-07	1.85E-10	0.00E+00	4.78E-07	5.63E-08	1.77E-07	4.28E-11	0.00E+00	2.34E-07
4416	420920.6	3734780.54	6.74E-07	2.85E-06	1.25E-09	0.00E+00	3.52E-06	9.24E-08	3.89E-07	1.86E-10	0.00E+00	4.82E-07	5.67E-08	1.79E-07	4.32E-11	0.00E+00	2.36E-07
4417	420911.79	3734784.19	6.76E-07	2.86E-06	1.25E-09	0.00E+00	3.53E-06	9.27E-08	3.90E-07	1.87E-10	0.00E+00	4.83E-07	5.69E-08	1.79E-07	4.33E-11	0.00E+00	2.36E-07
4418	420902.98	3734787.85	6.74E-07	2.85E-06	1.25E-09	0.00E+00	3.52E-06	9.24E-08	3.89E-07	1.86E-10	0.00E+00	4.82E-07	5.67E-08	1.79E-07	4.32E-11	0.00E+00	2.36E-07
4419	420894.17	3734791.51	6.68E-07	2.82E-06	1.24E-09	0.00E+00	3.49E-06	9.16E-08	3.86E-07	1.84E-10	0.00E+00	4.77E-07	5.62E-08	1.77E-07	4.28E-11	0.00E+00	2.33E-07
4420	420885.37	3734795.17	6.57E-07	2.78E-06	1.22E-09	0.00E+00	3.43E-06	9.01E-08	3.79E-07	1.81E-10	0.00E+00	4.70E-07	5.53E-08	1.74E-07	4.21E-11	0.00E+00	2.30E-07
4421	420876.56	3734798.82	6.42E-07	2.71E-06	1.19E-09	0.00E+00	3.35E-06	8.80E-08	3.71E-07	1.77E-10	0.00E+00	4.59E-07	5.40E-08	1.70E-07	4.11E-11	0.00E+00	2.24E-07
4422	420867.75	3734802.48	6.23E-07	2.63E-06	1.15E-09	0.00E+00	3.25E-06	8.54E-08	3.60E-07	1.72E-10	0.00E+00	4.45E-07	5.24E-08	1.65E-07	3.99E-11	0.00E+00	2.18E-07
4423	420858.95	3734806.14	5.99E-07	2.53E-06	1.11E-09	0.00E+00	3.13E-06	8.21E-08	3.46E-07	1.65E-10	0.00E+00	4.28E-07	5.04E-08	1.59E-07	3.84E-11	0.00E+00	2.09E-07
4424	420850.14	3734809.8	5.72E-07	2.41E-06	1.06E-09	0.00E+00	2.99E-06	7.84E-08	3.30E-07	1.58E-10	0.00E+00	4.09E-07	4.81E-08	1.52E-07	3.66E-11	0.00E+00	2.00E-07
4425	420841.33	3734813.46	5.42E-07	2.29E-06	1.00E-09	0.00E+00	2.83E-06	7.43E-08	3.13E-07	1.50E-10	0.00E+00	3.87E-07	4.56E-08	1.44E-07	3.47E-11	0.00E+00	1.89E-07
4426	420832.52	3734817.11	5.10E-07	2.15E-06	9.45E-10	0.00E+00	2.66E-06	6.99E-08	2.95E-07	1.41E-10	0.00E+00	3.65E-07	4.29E-08	1.35E-07	3.27E-11	0.00E+00	1.78E-07
4427	420823.72	3734820.77	4.77E-07	2.01E-06	8.83E-10	0.00E+00	2.49E-06	6.53E-08	2.75E-07	1.32E-10	0.00E+00	3.41E-07	4.01E-08	1.26E-07	3.05E-11	0.00E+00	1.67E-07
4428	420814.91	3734824.43	4.42E-07	1.87E-06	8.19E-10	0.00E+00	2.31E-06	6.06E-08	2.55E-07	1.22E-10	0.00E+00	3.16E-07	3.72E-08	1.17E-07	2.83E-11	0.00E+00	1.55E-07
4429	420806.1	3734828.09	4.07E-07	1.72E-06	7.55E-10	0.00E+00	2.13E-06	5.58E-08	2.35E-07	1.12E-10	0.00E+00	2.91E-07	3.43E-08	1.08E-07	2.61E-11	0.00E+00	1.42E-07
4430	420797.29	3734831.74	3.73E-07	1.57E-06	6.90E-10	0.00E+00	1.95E-06	5.11E-08	2.15E-07	1.03E-10	0.00E+00	2.66E-07	3.13E-08	9.89E-08	2.39E-11	0.00E+00	1.30E-07
4431	420788.49	3734835.4	3.39E-07	1.43E-06	6.28E-10	0.00E+00	1.77E-06	4.64E-08	1.96E-07	9.35E-11	0.00E+00	2.42E-07	2.85E-08	8.99E-08	2.17E-11	0.00E+00	1.18E-07
4432	420779.68	3734839.06	3.06E-07	1.29E-06	5.67E-10	0.00E+00	1.60E-06	4.20E-08	1.77E-07	8.45E-11	0.00E+00	2.19E-07	2.58E-08	8.12E-08	1.96E-11	0.00E+00	1.07E-07
4433	420770.87	3734842.72	2.76E-07	1.16E-06	5.10E-10	0.00E+00	1.44E-06	3.78E-08	1.59E-07	7.60E-11	0.00E+00	1.97E-07	2.32E-08	7.31E-08	1.76E-11	0.00E+00	9.63E-08
4434	420762.06	3734846.37	2.47E-07	1.04E-06	4.57E-10	0.00E+00	1.29E-06	3.38E-08	1.42E-07	6.80E-11	0.00E+00	1.76E-07	2.07E-08	6.54E-08	1.58E-11	0.00E+00	8.62E-08
4435	420753.26	3734850.03	2.20E-07	9.27E-07	4.07E-10	0.00E+00	1.15E-06	3.01E-08	1.27E-07	6.06E-11	0.00E+00	1.57E-07	1.85E-08	5.83E-08	1.41E-11	0.00E+00	7.67E-08
4436	421204.45	3734391.98	4.88E-08	2.06E-07	9.04E-11	0.00E+00	2.55E-07	6.69E-09	2.82E-08	1.35E-11	0.00E+00	3.49E-08	4.10E-09	1.29E-08	3.13E-12	0.00E+00	1.71E-08
4437	421204.41	3734382.28	4.62E-08	1.95E-07	8.56E-11	0.00E+00	2.41E-07	6.33E-09	2.67E-08	1.27E-11	0.00E+00	3.30E-08	3.89E-09	1.23E-08	2.96E-12	0.00E+00	1.61E-08
4438	421204.37	3734372.58	4.38E-08	1.85E-07	8.11E-11	0.00E+00	2.29E-07	6.00E-09	2.53E-08	1.21E-11	0.00E+00	3.13E-08	3.68E-09	1.16E-08	2.80E-12	0.00E+00	1.53E-08
4439	421204.3	3734353.18	3.95E-08	1.67E-07	7.32E-11	0.00E+00	2.06E-07	5.41E-09	2.28E-08	1.09E-11	0.00E+00	2.82E-08	3.32E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
4440	421204.27	3734343.47	3.76E-08	1.59E-07	6.96E-11	0.00E+00	1.96E-07	5.15E-09	2.17E-08	1.04E-11	0.00E+00	2.69E-08	3.16E-09	9.98E-09	2.41E-12	0.00E+00	1.31E-08
4441	421204.23	3734333.77	3.59E-08	1.51E-07	6.64E-11	0.00E+00	1.87E-07	4.92E-09	2.07E-08	9.90E-12	0.00E+00	2.56E-08	3.02E-09	9.52E-09	2.30E-12	0.00E+00	1.25E-08
4442	421204.19	3734324.07	3.43E-08	1.45E-07	6.35E-11	0.00E+00	1.79E-07	4.70E-09	1.98E-08	9.46E-12	0.00E+00	2.45E-08	2.88E-09	9.09E-09	2.20E-12	0.00E+00	1.20E-08
4443	421204.16	3734314.37	3.28E-08	1.39E-07	6.08E-11	0.00E+00	1.71E-07	4.50E-09	1.89E-08	9.05E-12	0.00E+00	2.34E-08	2.76E-09	8.71E-09	2.10E-12	0.00E+00	1.15E-08
4444	421204.12	3734304.67	3.15E-08	1.33E-07	5.83E-11	0.00E+00	1.64E-07	4.31E-09	1.82E-08	8.68E-12	0.00E+00	2.25E-08	2.65E-09	8.35E-09	2.02E-12	0.00E+00	1.10E-08
4445	421204.09	3734294.96	3.02E-08	1.28E-07	5.60E-11	0.00E+00	1.58E-07	4.14E-09	1.74E-08	8.34E-12	0.00E+00	2.16E-08	2.54E-09	8.02E-09	1.94E-12	0.00E+00	1.06E-08
4446	421222.58	3734445.05	6.18E-08	2.61E-07	1.15E-10	0.00E+00	3.23E-07	8.47E-09	3.57E-08	1.71E-11	0.00E+00	4.42E-08	5.20E-09	1.64E-08	3.96E-12	0.00E+00	2.16E-08
4447	421215.29	3734462.79	7.08E-08	2.99E-07	1.31E-10	0.00E+00	3.70E-07	9.70E-09	4.09E-08	1.95E-11	0.00E+00	5.06E-08	5.96E-09	1.88E-08	4.53E-12	0.00E+00	2.47E-08
4448	421211.64	3734471.65	7.59E-08	3.20E-07	1.41E-10	0.00E+00	3.96E-07	1.04E-08	4.38E-08	2.09E-11	0.00E+00	5.42E-08	6.38E-09	2.01E-08	4.86E-12	0.00E+00	2.65E-08
4449	421208	3734480.52	8.13E-08	3.43E-07	1.51E-10	0.00E+00	4.25E-07	1.11E-08	4.69E-08	2.24E-11	0.00E+00	5.81E-08	6.84E-09	2.16E-08	5.21E-12	0.00E+00	2.84E-08
4450	421204.35	3734489.39	8.72E-08	3.68E-07	1.62E-10	0.00E+00	4.55E-07	1.20E-08	5.03E-08	2.41E-11	0.00E+00	6.23E-08	7.33E-09	2.31E-08	5.58E-12	0.00E+00	3.05E-08
4451	421171.55	3734569.21	1.55E-07	6.55E-07	2.87E-10	0.00E+00	8.10E-07	2.13E-08	8.96E-08	4.28E-11	0.00E+00	1.11E-07	1.31E-08	4.12E-08	9.94E-12	0.00E+00	5.42E-08
4452	421167.91	3734578.08	1.65E-07	6.95E-07	3.05E-10	0.00E+00	8.60E-07	2.26E-08	9.51E-08	4.54E-11	0.00E+00	1.18E-07	1.39E-08	4.37E-08	1.05E-11	0.00E+00	5.76E-08
4453	421164.26	3734586.95	1.75E-07	7.40E-07	3.25E-10	0.00E+00	9.15E-07	2.40E-08	1.01E-07	4.84E-11	0.00E+00	1.25E-07	1.47E-08	4.65E-08	1.12E-11	0.00E+00	6.13E-08
4454	421160.62	3734595.82	1.86E-07	7.86E-07	3.45E-10	0.00E+00	9.72E-07	2.55E-08	1.07E-07	5.14E-11	0.00E+00	1.33E-07	1.57E-08	4.94E-08	1.19E-11	0.00E+00	6.51E-08
4455	421156.97	3734604.69	1.97E-07	8.32E-07	3.65E-10	0.00E+00	1.03E-06	2.70E-08	1.14E-07	5.44E-11	0.00E+00	1.41E-07	1.66E-08	5.23E-08	1.26E-11	0.00E+00	6.89E-08
4456	421153.33	3734613.55	2.08E-07	8.79E-07	3.86E-10	0.00E+00	1.09E-06	2.85E-08	1.20E-07	5.74E-11	0.00E+00	1.49E-07	1.75E-08	5.52E-08	1.33E-11	0.00E+00	7.27E-08
4457	421149.68	3734622.42	2.19E-07	9.24E-07	4.06E-10	0.00E+00	1.14E-06	3.00E-08	1.26E-07	6.04E-11	0.00E+00	1.56E-07	1.84E-08	5.81E-08	1.40E-11	0.00E+00	7.65E-08
4458	421146.04	3734631.29	2.30E-07	9.70E-07	4.25E-10	0.00E+00	1.20E-06	3.15E-08	1.33E-07	6.34E-11	0.00E+00	1.64E-07	1.93E-08	6.09E-08	1.47E-11	0.00E+00	8.03E-08
4459	421142.4	3734640.16	2.40E-07	1.01E-06	4.45E-10	0.00E+00	1.26E-06	3.29E-08	1.39E-07	6.63E-11	0.00E+00	1.72E-07	2.02E-08	6.38E-08	1.54E-11	0.00E+00	8.40E-08
4460	421138.75	3734649.03	2.50E-07	1.06E-06	4.63E-10	0.00E+00	1.31E-06	3.43E-08	1.44E-07	6.90E-11	0.00E+00	1.79E-07	2.10E-08	6.63E-08	1.60E-11	0.00E+00	8.74E-08
4461	421135.11	3734657.9	2.59E-07	1.09E-06	4.80E-10	0.00E+00	1.35E-06	3.55E-08	1.50E-07	7.16E-11	0.00E+00	1.85E-07	2.18E-08	6.88E-08	1.66E-11	0.00E+00	9.06E-08
4462	421131.46	3734666.77	2.68E-07	1.13E-06	4.97E-10	0.00E+00	1.40E-06	3.68E-08	1.55E-07	7.40E-11	0.00E+00	1.92E-07	2.26E-08	7.12E-08	1.72E-11	0.00E+00	9.38E-08
4463	421127.82	3734675.64	2.78E-07	1.17E-06	5.14E-10	0.00E+00	1.45E-06	3.80E-08	1.60E-07	7.66E-11	0.00E+00	1.98E-07	2.33E-08	7.36E-08	1.78E-11	0.00E+00	9.70E-08
4464	421124.17	3734684.51	2.87E-07	1.21E-06	5.31E-10	0.00E+00	1.50E-06	3.93E-08	1.65E-07	7.91E-11	0.00E+00	2.05E-07	2.41E-08	7.60E-08	1.84E-11	0.00E+00	1.00E-07
4465	421120.53	3734693.37	2.95E-07	1.25E-06	5.46E-10	0.00E+00	1.54E-06	4.04E-08	1.70E-07	8.14E-11	0.00E+00	2.11E-07	2.48E-08	7.83E-08	1.89E-11	0.00E+00	1.03E-07
4466	421089.8	3734750.26	3.50E-07	1.48E-06	6.48E-10	0.00E+00	1.83E-06	4.79E-08	2.02E-07	9.65E-11	0.00E+00	2.50E-07	2.94E-08	9.28E-08	2.24E-11	0.00E+00	1.22E-07
4467	421080.95	3734753.94	3.64E-07	1.54E-06	6.75E-10	0.00E+00	1.90E-06	4.99E-08	2.10E-07	1.00E-10	0.00E+00	2.60E-07	3.06E-08	9.66E-08	2.33E-11	0.00E+00	1.27E-07
4468	421072.09	3734757.62	3.79E-07	1.60E-06	7.02E-10	0.00E+00	1.98E-06	5.20E-08	2.19E-07	1.05E-10	0.00E+00	2.71E-07	3.19E-08	1.01E-07	2.43E-11	0.00E+00	1.33E-07
4469	421045.53	3734768.65	4.18E-07	1.77E-06	7.75E-10	0.00E+00	2.19E-06	5.74E-08	2.42E-07	1.15E-10	0.00E+00	2.99E-07	3.52E-08	1.11E-07	2.68E-11	0.00E+00	1.46E-07
4470	421036.67	3734772.33	4.31E-07	1.82E-06	7.99E-10	0.00E+00	2.25E-06	5.91E-08	2.49E-07	1.19E-10	0.00E+00	3.08E-07	3.63E-08	1.14E-07	2.76E-11	0.00E+00	1.51E-07
4471	421027.82	3734776.01	4.44E-07	1.87E-06	8.23E-10	0.00E+00	2.32E-06	6.09E-08	2.56E-07	1.23E-10	0.00E+00	3.17E-07	3.74E-08	1.18E-07	2.84E-11	0.00E+00	1.55E-07
4472	420992.4	3734790.72	4.93E-07	2.08E-06	9.13E-10	0.00E+00	2.57E-06	6.75E-08	2.84E-07	1.36E-10	0.00E+00	3.52E-07	4.14E-08	1.31E-07	3.16E-11	0.00E+00	1.72E-07
4473	420983.54	3734794.4	5.04E-07	2.13E-06	9.34E-10	0.00E+00	2.63E-06	6.91E-08	2.91E-07	1.39E-10	0.00E+00	3.60E-07	4.24E-08	1.34E-07	3.23E-11	0.00E+00	1.76E-07
4474	420974.69	3734798.07	5.15E-07	2.18E-06	9.54E-10	0.00E+00	2.69E-06	7.06E-08	2.97E-07	1.42E-10	0.00E+00	3.68E-07	4.33E-08	1.37E-07	3.30E-11	0.00E+00	1.80E-07
4475	420965.83	3734801.75	5.25E-07	2.22E-06	9.72E-10	0.00E+00	2.74E-06	7.19E-08	3.03E-07	1.45E-10	0.00E+00	3.75E-07	4.41E-08	1.39E-07	3.36E-11	0.00E+00	1.83E-07
4476	420956.98	3734805.43	5.32E-07	2.25E-06	9.87E-10	0.00E+00	2.78E-06	7.30E-08	3.07E-07	1.47E-10	0.00E+00	3.81E-07	4.48E-08	1.41E-07	3.41E-11	0.00E+00	1.86E-07
4477	420948.12	3734809.11	5.39E-07	2.28E-06	9.99E-10	0.00E+00	2.82E-06	7.39E-08	3.11E-07	1.49E-10	0.00E+00	3.85E-07	4.53E-08	1.43E-07	3.45E-11	0.00E+00	1.88E-07
4478	420939.26	3734812.78	5.43E-07	2.29E-06	1.01E-09	0.00E+00	2.84E-06	7.45E-08	3.14E-07	1.50E-10	0.00E+00	3.88E-07	4.57E-08	1.44E-07	3.48E-11	0.00E+00	1.90E-07
4479	420930.41	3734816.46	5.45E-07	2.30E-06	1.01E-09	0.00E+00	2.85E-06	7.47E-08	3.15E-07	1.50E-10	0.00E+00	3.89E-07	4.58E-08	1.45E-07	3.49E-11	0.00E+00	1.90E-07
4480	420921.55	3734820.14	5.43E-07	2.29E-06	1.01E-09	0.00E+00	2.83E-06	7.44E-08	3.13E-07	1.50E-10	0.00E+00	3.88E-07	4.56E-08	1.44E-07	3.48E-11	0.00E+00	1.90E-07
4481	420912.7	3734823.82	5.38E-07	2.27E-06	9.96E-10	0.00E+00	2.81E-06	7.37E-08	3.10E-07	1.48E-10	0.00E+00	3.84E-07	4.52E-08	1.43E-07	3.44E-11	0.00E+00	1.88E-07
4482	420903.84	3734827.49	5.30E-07	2.24E-06	9.81E-10	0.00E+00	2.77E-06	7.26E-08	3.06E-07	1.46E-10	0.00E+00	3.78E-07	4.46E-08	1.41E-07	3.39E-11	0.00E+00	1.85E-07
4483	420894.99	3734831.17	5.18E-07	2.19E-06	9.60E-10	0.00E+00	2.71E-06	7.10E-08	2.99E-07	1.43E-10	0.00E+00	3.70E-07	4.36E-08	1.38E-07	3.32E-11	0.00E+00	1.81E-07
4484	420886.13	3734834.85	5.04E-07	2.13E-06	9.33E-10	0.00E+00	2.63E-06	6.90E-08	2.91E-07	1.39E-10	0.00E+00	3.60E-07	4.24E-08	1.34E-07	3.23E-11	0.00E+00	1.76E-07
4485	420877.28	3734838.53	4.87E-07	2.05E-06	9.02E-10	0.00E+00	2.54E-06	6.67E-08	2.81E-07	1.34E-10	0.00E+00	3.48E-07	4.09E-08	1.29E-07	3.12E-11	0.00E+00	1.70E-07
4486	420868.42	3734842.2	4.67E-07	1.97E-06	8.66E-10	0.00E+00	2.44E-06	6.40E-08	2.70E-07	1.29E-10	0.00E+00	3.34E-07	3.93E-08	1.24E-07	2.99E-11	0.00E+00	1.63E-07
4487	420859.57	3734845.88	4.46E-07	1.88E-06	8.26E-10	0.00E+00	2.33E-06	6.11E-08	2.57E-07	1.23E-10	0.00E+00	3.19E-07	3.75E-08	1.18E-07	2.85E-11	0.00E+00	1.56E-07
4488	420850.71	3734849.56	4.22E-07	1.78E-06	7.83E-10	0.00E+00	2.21E-06	5.79E-08	2.44E-07	1.17E-10	0.00E+00	3.02E-07	3.55E-08	1.12E-07	2.71E-11	0.00E+00	1.48E-07
4489	420841.86	3734853.24	3.98E-07	1.68E-06	7.37E-10	0.00E+00	2.08E-06	5.45E-08	2.30E-07	1.10E-10	0.00E+00	2.84E-07	3.35E-08	1.06E-07	2.55E-11	0.00E+00	1.39E-07
4490	420833	3734856.91	3.72E-07	1.57E-06	6.90E-10	0.00E+00	1.94E-06	5.10E-08	2.15E-07	1.03E-10	0.00E+00	2.66E-07	3.13E-08	9.88E-08	2.38E-11	0.00E+00	1.30E-07
4491	420824.15	3734860.59	3.46E-07	1.46E-06	6.41E-10	0.00E+00	1.81E-06	4.75E-08	2.00E-07	9.55E-11	0.00E+00	2.47E-07	2.91E-08	9.19E-08	2.22E-11	0.00E+00	1.21E-07
4492	420815.29	3734864.27	3.20E-07	1.35E-06	5.93E-10	0.00E+00	1.67E-06	4.39E-08	1.85E-07	8.83E-11	0.00E+00	2.29E-07	2.69E-08	8.49E-08	2.05E-11	0.00E+00	1.12E-07
4493	420806.44	3734867.95	2.94E-07	1.24E-06	5.45E-10	0.00E+00	1.54E-06	4.03E-08	1.70E-07	8.12E-11	0.00E+00	2.10E-07	2.48E-08	7.81E-08	1.88E-11	0.00E+00	1.03E-07
4494	420797.58	3734871.62	2.69E-07	1.14E-06	4.98E-10	0.00E+00	1.41E-06	3.69E-08	1.55E-07	7.42E-11	0.00E+00	1.92E-07	2.26E-08	7.14E-08	1.72E-11	0.00E+00	9.40E-08
4495	420788.73	3734875.3	2.45E-07	1.03E-06	4.54E-10	0.00E+00	1.28E-06	3.36E-08	1.41E-07	6.76E-11	0.00E+00	1.75E-07	2.06E-08	6.50E-08	1.57E-11	0.00E+00	8.56E-08
4496	420779.87	3734878.98	2.22E-07	9.36E-07	4.11E-10	0.00E+00	1.16E-06	3.04E-08	1.28E-07	6.12E-11	0.00E+00	1.59E-07	1.87E-08	5.89E-08	1.42E-11	0.00E+00	7.75E-08
4497	420771.02	3734882.66	1.99E-07	8.41E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.50E-11	0.00E+00	1.42E-07	1.68E-08	5.29E-08	1.28E-11	0.00E+00	6.97E-08
4498	420762.16	3734886.33	1.79E-07	7.54E-07	3.31E-10	0.00E+00	9.33E-07	2.45E-08	1.03E-07	4.93E-11	0.00E+00	1.28E-07	1.50E-08	4.74E-08	1.14E-11	0.00E+00	6.24E-08
4499	420753.31	3734890.01	1.60E-07	6.75E-07	2.96E-10	0.00E+00	8.35E-07	2.19E-08	9.23E-08	4.41E-11	0.00E+00	1.14E-07	1.34E-08	4.24E-08	1.02E-11	0.00E+00	5.59E-08
4500	421262.48	3734445.15	5.26E-08	2.22E-07	9.74E-11	0.00E+00	2.75E-07	7.21E-09	3.04E-08	1.45E-11	0.00E+00	3.76E-08	4.42E-09	1.40E-08	3.37E-12	0.00E+00	1.84E-08
4501	421258.81	3734454.06	5.60E-08	2.37E-07	1.04E-10	0.00E+00	2.93E-07	7.68E-09	3.24E-08	1.55E-11	0.00E+00	4.01E-08	4.72E-09	1.49E-08	3.59E-12	0.00E+00	1.96E-08
4502	421255.15	3734462.97	5.98E-08	2.52E-07	1.11E-10	0.00E+00	3.12E-07	8.19E-09	3.45E-08	1.65E-11	0.00E+00	4.27E-08	5.03E-09	1.59E-08	3.83E-12	0.00E+00	2.09E-08
4503	421251.49	3734471.88	6.37E-08	2.69E-07	1.18E-10	0.00E+00	3.33E-07	8.74E-09	3.68E-08	1.76E-11	0.00E+00	4.56E-08	5.36E-09	1.69E-08	4.08E-12	0.00E+00	2.23E-08
4504	421207.55	3734578.8	1.32E-07	5.56E-07	2.44E-10	0.00E+00	6.88E-07	1.81E-08	7.61E-08	3.64E-11	0.00E+00	9.42E-08	1.11E-08	3.50E-08	8.44E-12	0.00E+00	4.60E-08

4505	421203.89	3734587.71	1.39E-07	5.89E-07	2.58E-10	0.00E+00	7.28E-07	1.91E-08	8.05E-08	3.85E-11	0.00E+00	9.96E-08	1.17E-08	3.70E-08	8.93E-12	0.00E+00	4.87E-08
4506	421200.23	3734596.62	1.47E-07	6.22E-07	2.73E-10	0.00E+00	7.70E-07	2.02E-08	8.51E-08	4.07E-11	0.00E+00	1.05E-07	1.24E-08	3.91E-08	9.44E-12	0.00E+00	5.15E-08
4507	421196.57	3734605.53	1.56E-07	6.59E-07	2.89E-10	0.00E+00	8.15E-07	2.14E-08	9.01E-08	4.30E-11	0.00E+00	1.11E-07	1.31E-08	4.14E-08	9.99E-12	0.00E+00	5.45E-08
4508	421192.91	3734614.44	1.65E-07	6.95E-07	3.05E-10	0.00E+00	8.60E-07	2.26E-08	9.50E-08	4.54E-11	0.00E+00	1.18E-07	1.38E-08	4.37E-08	1.05E-11	0.00E+00	5.75E-08
4509	421189.24	3734623.35	1.73E-07	7.31E-07	3.21E-10	0.00E+00	9.04E-07	2.37E-08	9.99E-08	4.78E-11	0.00E+00	1.24E-07	1.46E-08	4.59E-08	1.11E-11	0.00E+00	6.05E-08
4510	421185.58	3734632.26	1.82E-07	7.67E-07	3.36E-10	0.00E+00	9.48E-07	2.49E-08	1.05E-07	5.01E-11	0.00E+00	1.30E-07	1.53E-08	4.82E-08	1.16E-11	0.00E+00	6.35E-08
4511	421181.92	3734641.17	1.90E-07	8.03E-07	3.52E-10	0.00E+00	9.93E-07	2.61E-08	1.10E-07	5.25E-11	0.00E+00	1.36E-07	1.60E-08	5.04E-08	1.22E-11	0.00E+00	6.64E-08
4512	421178.26	3734650.08	1.99E-07	8.39E-07	3.68E-10	0.00E+00	1.04E-06	2.72E-08	1.15E-07	5.48E-11	0.00E+00	1.42E-07	1.67E-08	5.27E-08	1.27E-11	0.00E+00	6.94E-08
4513	421174.6	3734658.99	2.07E-07	8.74E-07	3.84E-10	0.00E+00	1.08E-06	2.84E-08	1.20E-07	5.71E-11	0.00E+00	1.48E-07	1.74E-08	5.49E-08	1.33E-11	0.00E+00	7.24E-08
4514	421170.94	3734667.9	2.15E-07	9.08E-07	3.99E-10	0.00E+00	1.12E-06	2.95E-08	1.24E-07	5.94E-11	0.00E+00	1.54E-07	1.81E-08	5.71E-08	1.38E-11	0.00E+00	7.52E-08
4515	421167.27	3734676.81	2.23E-07	9.43E-07	4.14E-10	0.00E+00	1.17E-06	3.06E-08	1.29E-07	6.16E-11	0.00E+00	1.60E-07	1.88E-08	5.93E-08	1.43E-11	0.00E+00	7.81E-08
4516	421163.61	3734685.72	2.31E-07	9.77E-07	4.29E-10	0.00E+00	1.21E-06	3.17E-08	1.34E-07	6.38E-11	0.00E+00	1.65E-07	1.95E-08	6.14E-08	1.48E-11	0.00E+00	8.09E-08
4517	421159.95	3734694.63	2.39E-07	1.01E-06	4.43E-10	0.00E+00	1.25E-06	3.28E-08	1.38E-07	6.60E-11	0.00E+00	1.71E-07	2.01E-08	6.34E-08	1.53E-11	0.00E+00	8.36E-08
4518	421156.29	3734703.54	2.46E-07	1.04E-06	4.57E-10	0.00E+00	1.29E-06	3.38E-08	1.42E-07	6.80E-11	0.00E+00	1.76E-07	2.07E-08	6.54E-08	1.58E-11	0.00E+00	8.61E-08
4519	421152.63	3734712.45	2.53E-07	1.07E-06	4.69E-10	0.00E+00	1.32E-06	3.47E-08	1.46E-07	6.99E-11	0.00E+00	1.81E-07	2.13E-08	6.72E-08	1.62E-11	0.00E+00	8.85E-08
4520	421148.97	3734721.36	2.60E-07	1.10E-06	4.81E-10	0.00E+00	1.36E-06	3.56E-08	1.50E-07	7.17E-11	0.00E+00	1.86E-07	2.19E-08	6.90E-08	1.66E-11	0.00E+00	9.08E-08
4521	421073.62	3734796.99	3.52E-07	1.48E-06	6.52E-10	0.00E+00	1.84E-06	4.82E-08	2.03E-07	9.70E-11	0.00E+00	2.51E-07	2.96E-08	9.33E-08	2.25E-11	0.00E+00	1.23E-07
4522	421064.72	3734800.68	3.62E-07	1.53E-06	6.71E-10	0.00E+00	1.89E-06	4.96E-08	2.09E-07	9.99E-11	0.00E+00	2.59E-07	3.05E-08	9.61E-08	2.32E-11	0.00E+00	1.27E-07
4523	421055.82	3734804.38	3.73E-07	1.57E-06	6.91E-10	0.00E+00	1.95E-06	5.11E-08	2.15E-07	1.03E-10	0.00E+00	2.66E-07	3.14E-08	9.89E-08	2.39E-11	0.00E+00	1.30E-07
4524	421020.24	3734819.15	4.08E-07	1.72E-06	7.55E-10	0.00E+00	2.13E-06	5.59E-08	2.35E-07	1.12E-10	0.00E+00	2.91E-07	3.43E-08	1.08E-07	2.61E-11	0.00E+00	1.42E-07
4525	420993.55	3734830.24	4.29E-07	1.81E-06	7.95E-10	0.00E+00	2.24E-06	5.88E-08	2.48E-07	1.18E-10	0.00E+00	3.07E-07	3.61E-08	1.14E-07	2.75E-11	0.00E+00	1.50E-07
4526	420984.65	3734833.93	4.35E-07	1.84E-06	8.07E-10	0.00E+00	2.27E-06	5.97E-08	2.51E-07	1.20E-10	0.00E+00	3.11E-07	3.66E-08	1.16E-07	2.79E-11	0.00E+00	1.52E-07
4527	420975.76	3734837.63	4.41E-07	1.86E-06	8.17E-10	0.00E+00	2.30E-06	6.04E-08	2.55E-07	1.22E-10	0.00E+00	3.15E-07	3.71E-08	1.17E-07	2.82E-11	0.00E+00	1.54E-07
4528	420966.86	3734841.32	4.45E-07	1.88E-06	8.24E-10	0.00E+00	2.32E-06	6.10E-08	2.57E-07	1.23E-10	0.00E+00	3.18E-07	3.74E-08	1.18E-07	2.85E-11	0.00E+00	1.55E-07
4529	420957.96	3734845.02	4.47E-07	1.89E-06	8.28E-10	0.00E+00	2.33E-06	6.12E-08	2.58E-07	1.23E-10	0.00E+00	3.19E-07	3.76E-08	1.19E-07	2.86E-11	0.00E+00	1.56E-07
4530	420949.07	3734848.71	4.47E-07	1.89E-06	8.28E-10	0.00E+00	2.34E-06	6.13E-08	2.58E-07	1.23E-10	0.00E+00	3.20E-07	3.76E-08	1.19E-07	2.86E-11	0.00E+00	1.56E-07
4531	420940.17	3734852.41	4.45E-07	1.88E-06	8.25E-10	0.00E+00	2.33E-06	6.10E-08	2.57E-07	1.23E-10	0.00E+00	3.18E-07	3.75E-08	1.18E-07	2.85E-11	0.00E+00	1.56E-07
4532	420931.27	3734856.1	4.41E-07	1.86E-06	8.18E-10	0.00E+00	2.31E-06	6.05E-08	2.55E-07	1.22E-10	0.00E+00	3.15E-07	3.71E-08	1.17E-07	2.83E-11	0.00E+00	1.54E-07
4533	420922.38	3734859.8	4.35E-07	1.84E-06	8.06E-10	0.00E+00	2.27E-06	5.97E-08	2.51E-07	1.20E-10	0.00E+00	3.11E-07	3.66E-08	1.15E-07	2.79E-11	0.00E+00	1.52E-07
4534	420913.48	3734863.49	4.27E-07	1.80E-06	7.91E-10	0.00E+00	2.23E-06	5.85E-08	2.46E-07	1.18E-10	0.00E+00	3.05E-07	3.59E-08	1.13E-07	2.73E-11	0.00E+00	1.49E-07
4535	420904.59	3734867.19	4.16E-07	1.76E-06	7.71E-10	0.00E+00	2.17E-06	5.70E-08	2.40E-07	1.15E-10	0.00E+00	2.97E-07	3.50E-08	1.10E-07	2.67E-11	0.00E+00	1.45E-07
4536	420895.69	3734870.88	4.03E-07	1.70E-06	7.47E-10	0.00E+00	2.11E-06	5.53E-08	2.33E-07	1.11E-10	0.00E+00	2.88E-07	3.39E-08	1.07E-07	2.58E-11	0.00E+00	1.41E-07
4537	420886.79	3734874.58	3.89E-07	1.64E-06	7.20E-10	0.00E+00	2.03E-06	5.33E-08	2.24E-07	1.07E-10	0.00E+00	2.78E-07	3.27E-08	1.03E-07	2.49E-11	0.00E+00	1.36E-07
4538	420877.9	3734878.27	3.73E-07	1.57E-06	6.90E-10	0.00E+00	1.95E-06	5.11E-08	2.15E-07	1.03E-10	0.00E+00	2.66E-07	3.13E-08	9.89E-08	2.39E-11	0.00E+00	1.30E-07
4539	420869	3734881.96	3.55E-07	1.50E-06	6.58E-10	0.00E+00	1.85E-06	4.86E-08	2.05E-07	9.79E-11	0.00E+00	2.54E-07	2.99E-08	9.42E-08	2.27E-11	0.00E+00	1.24E-07
4540	420860.1	3734885.66	3.36E-07	1.42E-06	6.23E-10	0.00E+00	1.76E-06	4.61E-08	1.94E-07	9.27E-11	0.00E+00	2.40E-07	2.83E-08	8.92E-08	2.15E-11	0.00E+00	1.17E-07
4541	420851.21	3734889.35	3.16E-07	1.34E-06	5.86E-10	0.00E+00	1.65E-06	4.34E-08	1.83E-07	8.73E-11	0.00E+00	2.26E-07	2.66E-08	8.40E-08	2.03E-11	0.00E+00	1.11E-07
4542	420842.31	3734893.05	2.96E-07	1.25E-06	5.49E-10	0.00E+00	1.55E-06	4.06E-08	1.71E-07	8.17E-11	0.00E+00	2.12E-07	2.49E-08	7.86E-08	1.90E-11	0.00E+00	1.04E-07
4543	420833.41	3734896.74	2.76E-07	1.16E-06	5.11E-10	0.00E+00	1.44E-06	3.78E-08	1.59E-07	7.61E-11	0.00E+00	1.97E-07	2.32E-08	7.32E-08	1.77E-11	0.00E+00	9.64E-08
4544	420824.52	3734900.44	2.55E-07	1.08E-06	4.73E-10	0.00E+00	1.33E-06	3.50E-08	1.47E-07	7.05E-11	0.00E+00	1.83E-07	2.15E-08	6.78E-08	1.64E-11	0.00E+00	8.93E-08
4545	420815.62	3734904.13	2.35E-07	9.94E-07	4.36E-10	0.00E+00	1.23E-06	3.23E-08	1.36E-07	6.49E-11	0.00E+00	1.68E-07	1.98E-08	6.25E-08	1.51E-11	0.00E+00	8.23E-08
4546	420806.72	3734907.83	2.16E-07	9.12E-07	4.00E-10	0.00E+00	1.13E-06	2.96E-08	1.25E-07	5.96E-11	0.00E+00	1.54E-07	1.82E-08	5.73E-08	1.38E-11	0.00E+00	7.55E-08
4547	420797.83	3734911.52	1.98E-07	8.37E-07	3.67E-10	0.00E+00	1.04E-06	2.72E-08	1.14E-07	5.47E-11	0.00E+00	1.42E-07	1.67E-08	5.26E-08	1.27E-11	0.00E+00	6.93E-08
4548	420788.93	3734915.22	1.81E-07	7.66E-07	3.36E-10	0.00E+00	9.47E-07	2.49E-08	1.05E-07	5.00E-11	0.00E+00	1.30E-07	1.53E-08	4.81E-08	1.16E-11	0.00E+00	6.34E-08
4549	420780.04	3734918.91	1.66E-07	6.99E-07	3.07E-10	0.00E+00	8.65E-07	2.27E-08	9.56E-08	4.57E-11	0.00E+00	1.18E-07	1.39E-08	4.39E-08	1.06E-11	0.00E+00	5.79E-08
4550	420771.14	3734922.61	1.50E-07	6.34E-07	2.78E-10	0.00E+00	7.84E-07	2.06E-08	8.66E-08	4.14E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.61E-12	0.00E+00	5.24E-08
4551	420762.24	3734926.3	1.36E-07	5.73E-07	2.51E-10	0.00E+00	7.09E-07	1.86E-08	7.83E-08	3.74E-11	0.00E+00	9.70E-08	1.14E-08	3.60E-08	8.69E-12	0.00E+00	4.74E-08
4552	420753.35	3734930	1.22E-07	5.17E-07	2.27E-10	0.00E+00	6.40E-07	1.68E-08	7.07E-08	3.38E-11	0.00E+00	8.75E-08	1.03E-08	3.25E-08	7.84E-12	0.00E+00	4.28E-08
4553	421284.45	3734391.69	3.64E-08	1.54E-07	6.74E-11	0.00E+00	1.90E-07	4.99E-09	2.10E-08	1.00E-11	0.00E+00	2.60E-08	3.06E-09	9.66E-09	2.33E-12	0.00E+00	1.27E-08
4554	421284.41	3734381.98	3.46E-08	1.46E-07	6.42E-11	0.00E+00	1.81E-07	4.75E-09	2.00E-08	9.56E-12	0.00E+00	2.48E-08	2.91E-09	9.19E-09	2.22E-12	0.00E+00	1.21E-08
4555	421284.37	3734372.28	3.30E-08	1.39E-07	6.11E-11	0.00E+00	1.72E-07	4.52E-09	1.90E-08	9.10E-12	0.00E+00	2.36E-08	2.78E-09	8.75E-09	2.11E-12	0.00E+00	1.15E-08
4556	421284.34	3734362.58	3.16E-08	1.33E-07	5.85E-11	0.00E+00	1.65E-07	4.33E-09	1.82E-08	8.72E-12	0.00E+00	2.26E-08	2.66E-09	8.38E-09	2.02E-12	0.00E+00	1.10E-08
4557	421284.3	3734352.88	3.03E-08	1.28E-07	5.62E-11	0.00E+00	1.58E-07	4.16E-09	1.75E-08	8.37E-12	0.00E+00	2.17E-08	2.55E-09	8.05E-09	1.94E-12	0.00E+00	1.06E-08
4558	421284.27	3734343.18	2.91E-08	1.23E-07	5.39E-11	0.00E+00	1.52E-07	3.99E-09	1.68E-08	8.03E-12	0.00E+00	2.08E-08	2.45E-09	7.72E-09	1.86E-12	0.00E+00	1.02E-08
4559	421284.23	3734333.47	2.79E-08	1.18E-07	5.16E-11	0.00E+00	1.46E-07	3.82E-09	1.61E-08	7.69E-12	0.00E+00	1.99E-08	2.35E-09	7.40E-09	1.79E-12	0.00E+00	9.74E-09
4560	421284.19	3734323.77	2.67E-08	1.13E-07	4.96E-11	0.00E+00	1.40E-07	3.67E-09	1.54E-08	7.38E-12	0.00E+00	1.91E-08	2.25E-09	7.10E-09	1.71E-12	0.00E+00	9.35E-09
4561	421284.16	3734314.07	2.57E-08	1.09E-07	4.76E-11	0.00E+00	1.34E-07	3.52E-09	1.48E-08	7.09E-12	0.00E+00	1.84E-08	2.16E-09	6.82E-09	1.65E-12	0.00E+00	8.98E-09
4562	421284.12	3734304.37	2.47E-08	1.04E-07	4.58E-11	0.00E+00	1.29E-07	3.39E-09	1.43E-08	6.82E-12	0.00E+00	1.77E-08	2.08E-09	6.56E-09	1.58E-12	0.00E+00	8.65E-09
4563	421284.09	3734294.67	2.38E-08	1.01E-07	4.42E-11	0.00E+00	1.25E-07	3.27E-09	1.38E-08	6.58E-12	0.00E+00	1.70E-08	2.01E-09	6.33E-09	1.53E-12	0.00E+00	8.33E-09
4564	421302.39	3734445.21	4.52E-08	1.91E-07	8.38E-11	0.00E+00	2.36E-07	6.20E-09	2.61E-08	1.25E-11	0.00E+00	3.23E-08	3.80E-09	1.20E-08	2.90E-12	0.00E+00	1.58E-08
4565	421298.71	3734454.16	4.80E-08	2.03E-07	8.90E-11	0.00E+00	2.51E-07	6.58E-09	2.77E-08	1.33E-11	0.00E+00	3.43E-08	4.04E-09	1.27E-08	3.08E-12	0.00E+00	1.68E-08
4566	421295.03	3734463.11	5.10E-08	2.15E-07	9.45E-11	0.00E+00	2.67E-07	6.99E-09	2.95E-08	1.41E-11	0.00E+00	3.65E-08	4.29E-09	1.35E-08	3.27E-12	0.00E+00	1.78E-08
4567	421291.36	3734472.05	5.42E-08	2.29E-07	1.00E-10	0.00E+00	2.83E-07	7.43E-09	3.13E-08	1.50E-11	0.00E+00	3.87E-08	4.56E-09	1.44E-08	3.47E-12	0.00E+00	1.89E-08
4568	421287.68	3734481	5.76E-08	2.43E-07	1.07E-10	0.00E+00	3.01E-07	7.90E-09	3.33E-08	1.59E-11	0.00E+00	4.12E-08	4.85E-09	1.53E-08	3.69E-12	0.00E+00	2.01E-08
4569	421284.01	3734489.94	6.13E-08	2.59E-07	1.14E-10	0.00E+00	3.20E-07	8.40E-09	3.54E-08	1.69E-11	0.00E+00	4.38E-08	5.15E-09	1.63E-08	3.92E-12	0.00E+00	2.14E-08
4570	421239.89	3734597.29	1.23E-07	5.18E-07	2.27E-10	0.00E+00	6.40E-07	1.68E-08	7.08E-08	3.38E-11	0.00E+00	8.76E-08	1.03E-08	3.25E-08	7.85E-12	0.00E+00	4.28E-08
4571	421236.21	3734606.24	1.29E-07	5.46E-07	2.40E-10	0.00E+00	6.75E-07	1.77E-08	7.46E-08	3.57E-11	0.00E+00	9.24E-08	1.09E-08	3.43E-08	8.28E-12	0.00E+00	4.52E-08
4572	421232.54	3734615.19	1.36E-07	5.74E-07	2.52E-10	0.00E+00	7.10E-07	1.86E-08	7.85E-08	3.75E-11	0.00E+00	9.71E-08	1.14E-08	3.61E-08	8.71E-12	0.00E+00	4.75E-08
4573	421228.86	3734624.13	1.42E-07	6.01E-07	2.64E-10	0.00E+00	7.44E-07	1.95E-08	8.22E-08	3.93E-11	0.00E+00	1.02E-07	1.20E-08	3.78E-08	9.12E-12	0.00E+00	4.98E-08
4574	421225.18	3734633.08	1.49E-07	6.29E-07	2.76E-10	0.00E+00	7.78E-07	2.04E-08	8.59E-08	4.11E-11	0.00E+00	1.06E-07	1.25E-08	3.95E-08	9.54E-12	0.00E+00	5.20E-08
4575	421221.51	3734642.02	1.55E-07	6.56E-07	2.88E-10	0.00E+00	8.11E-07	2.13E-08	8.96E-08	4.28E-11	0.00E+00	1.11E-07	1.31E-08	4.12E-08	9.95E-12	0.00E+00	5.43E-08
4576	421217.83	3734650.97	1.62E-07	6.83E-07	3.00E-10	0.00E+00	8.45E-07	2.22E-08	9.33E-08	4.46E-11	0.00E+00	1.16E-07	1.36E-08	4.29E-08	1.04E-11	0.00E+00	5.65E-08
4577	421214.15	3734659.92	1.68E-07	7.10E-07	3.12E-10	0.00E+00	8.79E-07	2.31E-08	9.71E-08	4.64E-11	0.00E+00	1.20E-07	1.41E-08	4.46E-08	1.08E-11	0.00E+00	5.88E-08
4578	421210.48	3734668.86	1.75E-07	7.38E-07	3.24E-10	0.00E+00	9.13E-07	2.40E-08	1.01E-07	4.82E-11	0.00E+00	1.25E-07	1.47E-08	4.64E-08	1.12E-11	0.00E+00	6.11E-08
4579	421206.8	3734677.81	1.81E-07	7.64E-07	3.35E-10	0.00E+00	9.46E-07	2.48E-08	1.05E-07	4.99E-11	0.00E+00	1.29E-07	1.52E-08	4.80E-08	1.16E-11	0.00E+00	6.33E-08
4580	421203.13	3734686.75	1.87E-07	7.89E-07	3.46E-10	0.00E+00	9.77E-07	2.56E-08	1.08E-07	5.16E-11	0.00E+00	1.34E-07	1.57E-08	4.96E-08	1.20E-11	0.00E+00	6.53E-08
4581	421199.45	3734695.7	1.93E-07	8.14E-07	3.57E-10	0.00E+00	1.01E-06	2.64E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.11E-08	1.23E-11	0.00E+00	6.74E-08
4582	421195.77	3734704.65	1.99E-07	8.40E-07	3.69E-10	0.00E+00	1.04E-06	2.73E-08	1.15E-07	5.49E-11	0.00E+00	1.42E-07	1.67E-08	5.28E-08	1.27E-11	0.00E+00	6.96E-08
4583	421192.1	3734713.59	2.05E-07	8.67E-07	3.80E-10	0.00E+00	1.07E-06	2.81E-08	1.19E-07	5.67E-11	0.00E+00	1.47E-07	1.73E-08	5.45E-08	1.32E-11	0.00E+00	7.18E-08
4584	421188.42	3734722.54	2.11E-07	8.92E-07	3.91E-10	0.00E+00	1.10E-06	2.90E-08	1.22E-07	5.83E-11	0.00E+00	1.51E-07	1.78E-08	5.61E-08	1.35E-11	0.00E+00	7.39E-08
4585	421184.74	3734731.48	2.17E-07	9.16E-07	4.02E-10	0.00E+00	1.13E-06	2.97E-08	1.25E-07	5.99E-11	0.00E+00	1.55E-07	1.82E-08	5.76E-08	1.39E-11	0.00E+00	7.58E-08
4586	421181.07	3734740.43	2.22E-07	9.38E-07	4.12E-10	0.00E+00	1.16E-06	3.05E-08	1.28E-07	6.13E-11	0.00E+00	1.59E-07	1.87E-08	5.90E-08	1.42E-11	0.00E+00	7.77E-08
4587	421177.39	3734749.37	2.27E-07	9.60E-07	4.21E-10	0.00E+00	1.19E-06	3.12E-08	1.31E-07	6.27E-11	0.00E+00	1.62E-07	1.91E-08	6.03E-08	1.46E-11	0.00E+00	7.95E-08
4588	421173.71	3734758.32	2.32E-07	9.79E-07	4.30E-10	0.00E+00	1.21E-06	3.18E-08	1.34E-07	6.40E-11	0.00E+00	1.66E-07	1.95E-08	6.15E-08	1.49E-11	0.00E+00	8.11E-08
4589	421092.81	3734829.02	3.04E-07	1.28E-06	5.63E-10	0.00E+00	1.59E-06	4.16E-08	1.75E-07	8.38E-11	0.00E+00	2.17E-07	2.56E-08	8.06E-08	1.95E-11	0.00E+00	1.06E-07
4590	421083.87	3734832.73	3.11E-07	1.32E-06	5.77E-10	0.00E+00	1.63E-06	4.27E-08	1.80E-07	8.59E-11	0.00E+00	2.23E-07	2.62E-08	8.26E-08	2.00E-11	0.00E+00	1.09E-07
4591	421048.15	3734847.57	3.43E-07	1.45E-06	6.35E-10	0.00E+00	1.79E-06	4.70E-08	1.98E-07	9.45E-11	0.00E+00	2.45E-07	2.88E-08	9.09E-08	2.19E-11	0.00E+00	1.20E-07
4592	421039.21	3734851.27	3.49E-07	1.47E-06	6.46E-10	0.00E+00	1.82E-06	4.78E-08	2.01E-07	9.62E-11	0.00E+00	2.49E-07	2.93E-08	9.25E-08	2.23E-11	0.00E+00	1.22E-07
4593	421030.28	3734854.98	3.54E-07	1.50E-06	6.57E-10	0.00E+00	1.85E-06	4.86E-08	2.05E-07	9.78E-11	0.00E+00	2.53E-07	2.98E-08	9.41E-08	2.27E-11	0.00E+00	1.24E-07
4594	421021.35	3734858.69	3.60E-07	1.52E-06	6.67E-10	0.00E+00	1.88E-06	4.93E-08	2.08E-07	9.93E-11	0.00E+00	2.57E-07	3.03E-08	9.55E-08	2.30E-11	0.00E+00	1.26E-07
4595	420994.55	3734869.82	3.72E-07	1.57E-06	6.89E-10	0.00E+00	1.94E-06	5.10E-08	2.15E-07	1.03E-10	0.00E+00	2.66E-07	3.13E-08	9.87E-08	2.38E-11	0.00E+00	1.30E-07
4596	420985.62	3734873.53	3.74E-07	1.58E-06	6.93E-10	0.00E+00	1.95E-06	5.13E-08	2.16E-07	1.03E-10	0.00E+00	2.67E-07	3.15E-08	9.92E-08	2.40E-11	0.00E+00	1.31E-07

4597	420976.69	3734877.24	3.75E-07	1.58E-06	6.95E-10	0.00E+00	1.96E-06	5.14E-08	2.17E-07	1.04E-10	0.00E+00	2.68E-07	3.16E-08	9.95E-08	2.40E-11	0.00E+00	1.31E-07
4598	420967.76	3734880.95	3.75E-07	1.58E-06	6.95E-10	0.00E+00	1.96E-06	5.14E-08	2.16E-07	1.03E-10	0.00E+00	2.68E-07	3.15E-08	9.95E-08	2.40E-11	0.00E+00	1.31E-07
4599	420958.82	3734884.66	3.73E-07	1.58E-06	6.91E-10	0.00E+00	1.95E-06	5.12E-08	2.15E-07	1.03E-10	0.00E+00	2.67E-07	3.14E-08	9.90E-08	2.39E-11	0.00E+00	1.30E-07
4600	420949.89	3734888.37	3.70E-07	1.56E-06	6.85E-10	0.00E+00	1.93E-06	5.07E-08	2.13E-07	1.02E-10	0.00E+00	2.64E-07	3.11E-08	9.81E-08	2.37E-11	0.00E+00	1.29E-07
4601	420940.96	3734892.08	3.65E-07	1.54E-06	6.76E-10	0.00E+00	1.90E-06	5.00E-08	2.11E-07	1.01E-10	0.00E+00	2.61E-07	3.07E-08	9.68E-08	2.34E-11	0.00E+00	1.27E-07
4602	420932.03	3734895.79	3.58E-07	1.51E-06	6.63E-10	0.00E+00	1.87E-06	4.91E-08	2.07E-07	9.88E-11	0.00E+00	2.56E-07	3.01E-08	9.50E-08	2.29E-11	0.00E+00	1.25E-07
4603	420923.09	3734899.5	3.49E-07	1.48E-06	6.47E-10	0.00E+00	1.83E-06	4.79E-08	2.02E-07	9.64E-11	0.00E+00	2.50E-07	2.94E-08	9.27E-08	2.24E-11	0.00E+00	1.22E-07
4604	420914.16	3734903.21	3.39E-07	1.43E-06	6.29E-10	0.00E+00	1.77E-06	4.65E-08	1.96E-07	9.37E-11	0.00E+00	2.43E-07	2.86E-08	9.01E-08	2.17E-11	0.00E+00	1.19E-07
4605	420905.23	3734906.92	3.28E-07	1.39E-06	6.08E-10	0.00E+00	1.71E-06	4.50E-08	1.89E-07	9.06E-11	0.00E+00	2.35E-07	2.76E-08	8.71E-08	2.10E-11	0.00E+00	1.15E-07
4606	420896.3	3734910.63	3.15E-07	1.33E-06	5.85E-10	0.00E+00	1.65E-06	4.32E-08	1.82E-07	8.71E-11	0.00E+00	2.25E-07	2.65E-08	8.37E-08	2.02E-11	0.00E+00	1.10E-07
4607	420887.37	3734914.34	3.01E-07	1.27E-06	5.58E-10	0.00E+00	1.57E-06	4.13E-08	1.74E-07	8.32E-11	0.00E+00	2.15E-07	2.54E-08	8.00E-08	1.93E-11	0.00E+00	1.05E-07
4608	420878.43	3734918.05	2.86E-07	1.21E-06	5.31E-10	0.00E+00	1.50E-06	3.93E-08	1.65E-07	7.91E-11	0.00E+00	2.05E-07	2.41E-08	7.60E-08	1.84E-11	0.00E+00	1.00E-07
4609	420869.5	3734921.76	2.71E-07	1.14E-06	5.02E-10	0.00E+00	1.42E-06	3.72E-08	1.57E-07	7.48E-11	0.00E+00	1.94E-07	2.28E-08	7.19E-08	1.74E-11	0.00E+00	9.48E-08
4610	420860.57	3734925.47	2.56E-07	1.08E-06	4.74E-10	0.00E+00	1.34E-06	3.50E-08	1.48E-07	7.05E-11	0.00E+00	1.83E-07	2.15E-08	6.78E-08	1.64E-11	0.00E+00	8.94E-08
4611	420851.64	3734929.18	2.40E-07	1.01E-06	4.45E-10	0.00E+00	1.25E-06	3.29E-08	1.39E-07	6.62E-11	0.00E+00	1.71E-07	2.02E-08	6.37E-08	1.54E-11	0.00E+00	8.39E-08
4612	420842.7	3734932.88	2.24E-07	9.46E-07	4.15E-10	0.00E+00	1.17E-06	3.07E-08	1.29E-07	6.18E-11	0.00E+00	1.60E-07	1.89E-08	5.95E-08	1.44E-11	0.00E+00	7.83E-08
4613	420833.77	3734936.59	2.08E-07	8.80E-07	3.86E-10	0.00E+00	1.09E-06	2.86E-08	1.20E-07	5.75E-11	0.00E+00	1.49E-07	1.75E-08	5.53E-08	1.34E-11	0.00E+00	7.29E-08
4614	420824.84	3734940.3	1.93E-07	8.15E-07	3.58E-10	0.00E+00	1.01E-06	2.65E-08	1.11E-07	5.33E-11	0.00E+00	1.38E-07	1.62E-08	5.12E-08	1.24E-11	0.00E+00	6.75E-08
4615	420815.91	3734944.01	1.78E-07	7.53E-07	3.30E-10	0.00E+00	9.32E-07	2.44E-08	1.03E-07	4.92E-11	0.00E+00	1.27E-07	1.50E-08	4.73E-08	1.14E-11	0.00E+00	6.23E-08
4616	420806.98	3734947.72	1.64E-07	6.94E-07	3.05E-10	0.00E+00	8.59E-07	2.25E-08	9.49E-08	4.54E-11	0.00E+00	1.17E-07	1.38E-08	4.36E-08	1.05E-11	0.00E+00	5.75E-08
4617	420798.04	3734951.43	1.51E-07	6.39E-07	2.80E-10	0.00E+00	7.90E-07	2.07E-08	8.73E-08	4.17E-11	0.00E+00	1.08E-07	1.27E-08	4.01E-08	9.69E-12	0.00E+00	5.29E-08
4618	420789.11	3734955.14	1.39E-07	5.85E-07	2.57E-10	0.00E+00	7.24E-07	1.90E-08	8.01E-08	3.83E-11	0.00E+00	9.91E-08	1.17E-08	3.68E-08	8.88E-12	0.00E+00	4.85E-08
4619	420780.18	3734958.85	1.27E-07	5.35E-07	2.35E-10	0.00E+00	6.62E-07	1.74E-08	7.32E-08	3.50E-11	0.00E+00	9.06E-08	1.07E-08	3.36E-08	8.12E-12	0.00E+00	4.43E-08
4620	420771.25	3734962.56	1.15E-07	4.87E-07	2.14E-10	0.00E+00	6.03E-07	1.58E-08	6.66E-08	3.18E-11	0.00E+00	8.25E-08	9.71E-09	3.06E-08	7.39E-12	0.00E+00	4.03E-08
4621	420762.31	3734966.27	1.05E-07	4.43E-07	1.94E-10	0.00E+00	5.48E-07	1.44E-08	6.06E-08	2.89E-11	0.00E+00	7.50E-08	8.82E-09	2.78E-08	6.72E-12	0.00E+00	3.67E-08
4622	420753.38	3734969.98	9.52E-08	4.02E-07	1.76E-10	0.00E+00	4.97E-07	1.31E-08	5.50E-08	2.63E-11	0.00E+00	6.81E-08	8.01E-09	2.53E-08	6.10E-12	0.00E+00	3.33E-08
4623	421324.45	3734391.54	3.20E-08	1.35E-07	5.94E-11	0.00E+00	1.67E-07	4.39E-09	1.85E-08	8.84E-12	0.00E+00	2.29E-08	2.70E-09	8.50E-09	2.05E-12	0.00E+00	1.12E-08
4624	421324.41	3734381.84	3.06E-08	1.29E-07	5.67E-11	0.00E+00	1.60E-07	4.20E-09	1.77E-08	8.45E-12	0.00E+00	2.19E-08	2.58E-09	8.13E-09	1.96E-12	0.00E+00	1.07E-08
4625	421324.37	3734372.13	2.93E-08	1.24E-07	5.43E-11	0.00E+00	1.53E-07	4.02E-09	1.69E-08	8.08E-12	0.00E+00	2.09E-08	2.46E-09	7.77E-09	1.88E-12	0.00E+00	1.02E-08
4626	421324.34	3734362.43	2.81E-08	1.19E-07	5.21E-11	0.00E+00	1.47E-07	3.86E-09	1.62E-08	7.76E-12	0.00E+00	2.01E-08	2.37E-09	7.46E-09	1.80E-12	0.00E+00	9.83E-09
4627	421324.3	3734352.73	2.70E-08	1.14E-07	5.00E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.45E-12	0.00E+00	1.93E-08	2.27E-09	7.17E-09	1.73E-12	0.00E+00	9.44E-09
4628	421324.27	3734343.03	2.59E-08	1.09E-07	4.80E-11	0.00E+00	1.35E-07	3.55E-09	1.50E-08	7.15E-12	0.00E+00	1.85E-08	2.18E-09	6.88E-09	1.66E-12	0.00E+00	9.06E-09
4629	421324.23	3734333.33	2.49E-08	1.05E-07	4.61E-11	0.00E+00	1.30E-07	3.41E-09	1.44E-08	6.87E-12	0.00E+00	1.78E-08	2.09E-09	6.60E-09	1.59E-12	0.00E+00	8.70E-09
4630	421324.19	3734323.62	2.39E-08	1.01E-07	4.43E-11	0.00E+00	1.25E-07	3.28E-09	1.38E-08	6.60E-12	0.00E+00	1.71E-08	2.01E-09	6.34E-09	1.53E-12	0.00E+00	8.36E-09
4631	421324.16	3734313.92	2.29E-08	9.68E-08	4.25E-11	0.00E+00	1.20E-07	3.14E-09	1.32E-08	6.32E-12	0.00E+00	1.64E-08	1.93E-09	6.08E-09	1.47E-12	0.00E+00	8.01E-09
4632	421324.12	3734304.22	2.21E-08	9.31E-08	4.09E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.09E-12	0.00E+00	1.58E-08	1.86E-09	5.85E-09	1.41E-12	0.00E+00	7.71E-09
4633	421324.09	3734294.52	2.13E-08	8.99E-08	3.94E-11	0.00E+00	1.11E-07	2.92E-09	1.23E-08	5.87E-12	0.00E+00	1.52E-08	1.79E-09	5.65E-09	1.36E-12	0.00E+00	7.44E-09
4634	421342.75	3734444.18	3.90E-08	1.65E-07	7.23E-11	0.00E+00	2.04E-07	5.35E-09	2.25E-08	1.08E-11	0.00E+00	2.79E-08	3.28E-09	1.04E-08	2.50E-12	0.00E+00	1.36E-08
4635	421339.14	3734452.97	4.12E-08	1.74E-07	7.64E-11	0.00E+00	2.15E-07	5.65E-09	2.38E-08	1.14E-11	0.00E+00	2.95E-08	3.47E-09	1.09E-08	2.64E-12	0.00E+00	1.44E-08
4636	421335.52	3734461.77	4.36E-08	1.84E-07	8.08E-11	0.00E+00	2.28E-07	5.97E-09	2.52E-08	1.20E-11	0.00E+00	3.12E-08	3.67E-09	1.16E-08	2.79E-12	0.00E+00	1.52E-08
4637	421331.91	3734470.57	4.61E-08	1.95E-07	8.54E-11	0.00E+00	2.41E-07	6.32E-09	2.66E-08	1.27E-11	0.00E+00	3.29E-08	3.88E-09	1.22E-08	2.95E-12	0.00E+00	1.61E-08
4638	421328.29	3734479.37	4.88E-08	2.06E-07	9.04E-11	0.00E+00	2.55E-07	6.69E-09	2.82E-08	1.35E-11	0.00E+00	3.49E-08	4.10E-09	1.29E-08	3.12E-12	0.00E+00	1.70E-08
4639	421324.67	3734488.17	5.16E-08	2.18E-07	9.56E-11	0.00E+00	2.70E-07	7.08E-09	2.98E-08	1.42E-11	0.00E+00	3.69E-08	4.34E-09	1.37E-08	3.31E-12	0.00E+00	1.80E-08
4640	421321.06	3734496.96	5.46E-08	2.31E-07	1.01E-10	0.00E+00	2.85E-07	7.49E-09	3.15E-08	1.51E-11	0.00E+00	3.90E-08	4.60E-09	1.45E-08	3.50E-12	0.00E+00	1.91E-08
4641	421277.67	3734602.54	1.04E-07	4.38E-07	1.92E-10	0.00E+00	5.42E-07	1.42E-08	5.99E-08	2.86E-11	0.00E+00	7.41E-08	8.73E-09	2.75E-08	6.65E-12	0.00E+00	3.63E-08
4642	421274.06	3734611.34	1.09E-07	4.61E-07	2.02E-10	0.00E+00	5.71E-07	1.50E-08	6.31E-08	3.01E-11	0.00E+00	7.81E-08	9.19E-09	2.90E-08	7.00E-12	0.00E+00	3.82E-08
4643	421270.44	3734620.13	1.15E-07	4.85E-07	2.13E-10	0.00E+00	6.00E-07	1.57E-08	6.63E-08	3.17E-11	0.00E+00	8.21E-08	9.67E-09	3.05E-08	7.36E-12	0.00E+00	4.02E-08
4644	421266.83	3734628.93	1.20E-07	5.08E-07	2.23E-10	0.00E+00	6.29E-07	1.65E-08	6.95E-08	3.32E-11	0.00E+00	8.60E-08	1.01E-08	3.19E-08	7.71E-12	0.00E+00	4.21E-08
4645	421263.21	3734637.73	1.26E-07	5.31E-07	2.33E-10	0.00E+00	6.57E-07	1.72E-08	7.26E-08	3.47E-11	0.00E+00	8.99E-08	1.06E-08	3.34E-08	8.06E-12	0.00E+00	4.40E-08
4646	421259.6	3734646.53	1.31E-07	5.54E-07	2.43E-10	0.00E+00	6.85E-07	1.80E-08	7.58E-08	3.62E-11	0.00E+00	9.38E-08	1.10E-08	3.48E-08	8.41E-12	0.00E+00	4.59E-08
4647	421255.98	3734655.33	1.37E-07	5.76E-07	2.53E-10	0.00E+00	7.13E-07	1.87E-08	7.88E-08	3.77E-11	0.00E+00	9.76E-08	1.15E-08	3.62E-08	8.74E-12	0.00E+00	4.77E-08
4648	421252.36	3734664.12	1.41E-07	5.97E-07	2.62E-10	0.00E+00	7.39E-07	1.94E-08	8.17E-08	3.90E-11	0.00E+00	1.01E-07	1.19E-08	3.75E-08	9.06E-12	0.00E+00	4.94E-08
4649	421248.75	3734672.92	1.46E-07	6.18E-07	2.71E-10	0.00E+00	7.65E-07	2.01E-08	8.45E-08	4.04E-11	0.00E+00	1.05E-07	1.23E-08	3.88E-08	9.38E-12	0.00E+00	5.12E-08
4650	421245.13	3734681.72	1.51E-07	6.39E-07	2.80E-10	0.00E+00	7.90E-07	2.07E-08	8.73E-08	4.17E-11	0.00E+00	1.08E-07	1.27E-08	4.01E-08	9.69E-12	0.00E+00	5.29E-08
4651	421241.52	3734690.52	1.56E-07	6.59E-07	2.89E-10	0.00E+00	8.15E-07	2.14E-08	9.01E-08	4.30E-11	0.00E+00	1.11E-07	1.31E-08	4.14E-08	9.99E-12	0.00E+00	5.45E-08
4652	421237.9	3734699.31	1.61E-07	6.78E-07	2.98E-10	0.00E+00	8.39E-07	2.20E-08	9.27E-08	4.43E-11	0.00E+00	1.15E-07	1.35E-08	4.26E-08	1.03E-11	0.00E+00	5.62E-08
4653	421234.29	3734708.11	1.65E-07	6.97E-07	3.06E-10	0.00E+00	8.63E-07	2.26E-08	9.53E-08	4.56E-11	0.00E+00	1.18E-07	1.39E-08	4.38E-08	1.06E-11	0.00E+00	5.77E-08
4654	421230.67	3734716.91	1.69E-07	7.15E-07	3.14E-10	0.00E+00	8.85E-07	2.32E-08	9.78E-08	4.68E-11	0.00E+00	1.21E-07	1.43E-08	4.50E-08	1.09E-11	0.00E+00	5.92E-08
4655	421174.88	3734834.93	2.14E-07	9.05E-07	3.97E-10	0.00E+00	1.12E-06	2.94E-08	1.24E-07	5.92E-11	0.00E+00	1.53E-07	1.80E-08	5.69E-08	1.37E-11	0.00E+00	7.49E-08
4656	421166.1	3734838.58	2.20E-07	9.29E-07	4.08E-10	0.00E+00	1.15E-06	3.02E-08	1.27E-07	6.07E-11	0.00E+00	1.57E-07	1.85E-08	5.84E-08	1.41E-11	0.00E+00	7.69E-08
4657	421157.32	3734842.23	2.26E-07	9.53E-07	4.18E-10	0.00E+00	1.18E-06	3.09E-08	1.30E-07	6.23E-11	0.00E+00	1.61E-07	1.90E-08	5.99E-08	1.45E-11	0.00E+00	7.89E-08
4658	421130.96	3734853.17	2.44E-07	1.03E-06	4.51E-10	0.00E+00	1.27E-06	3.34E-08	1.41E-07	6.72E-11	0.00E+00	1.74E-07	2.05E-08	6.46E-08	1.56E-11	0.00E+00	8.51E-08
4659	421078.26	3734875.06	2.85E-07	1.20E-06	5.29E-10	0.00E+00	1.49E-06	3.91E-08	1.65E-07	7.87E-11	0.00E+00	2.04E-07	2.40E-08	7.57E-08	1.83E-11	0.00E+00	9.97E-08
4660	421069.47	3734878.71	2.92E-07	1.23E-06	5.40E-10	0.00E+00	1.52E-06	4.00E-08	1.68E-07	8.05E-11	0.00E+00	2.08E-07	2.45E-08	7.74E-08	1.87E-11	0.00E+00	1.02E-07
4661	421060.69	3734882.36	2.98E-07	1.26E-06	5.52E-10	0.00E+00	1.56E-06	4.08E-08	1.72E-07	8.22E-11	0.00E+00	2.13E-07	2.50E-08	7.90E-08	1.91E-11	0.00E+00	1.04E-07
4662	421051.9	3734886	3.03E-07	1.28E-06	5.62E-10	0.00E+00	1.59E-06	4.16E-08	1.75E-07	8.37E-11	0.00E+00	2.17E-07	2.55E-08	8.05E-08	1.94E-11	0.00E+00	1.06E-07
4663	421043.12	3734889.65	3.08E-07	1.30E-06	5.71E-10	0.00E+00	1.61E-06	4.22E-08	1.78E-07	8.50E-11	0.00E+00	2.20E-07	2.59E-08	8.17E-08	1.97E-11	0.00E+00	1.08E-07
4664	421034.33	3734893.3	3.12E-07	1.32E-06	5.78E-10	0.00E+00	1.63E-06	4.27E-08	1.80E-07	8.60E-11	0.00E+00	2.23E-07	2.62E-08	8.27E-08	2.00E-11	0.00E+00	1.09E-07
4665	421025.55	3734896.95	3.15E-07	1.33E-06	5.84E-10	0.00E+00	1.65E-06	4.32E-08	1.82E-07	8.69E-11	0.00E+00	2.25E-07	2.65E-08	8.36E-08	2.02E-11	0.00E+00	1.10E-07
4666	421016.77	3734900.6	3.17E-07	1.34E-06	5.88E-10	0.00E+00	1.66E-06	4.35E-08	1.83E-07	8.76E-11	0.00E+00	2.27E-07	2.67E-08	8.42E-08	2.03E-11	0.00E+00	1.11E-07
4667	420990.41	3734911.54	3.19E-07	1.35E-06	5.91E-10	0.00E+00	1.67E-06	4.37E-08	1.84E-07	8.80E-11	0.00E+00	2.28E-07	2.68E-08	8.46E-08	2.04E-11	0.00E+00	1.11E-07
4668	420981.63	3734915.19	3.18E-07	1.34E-06	5.88E-10	0.00E+00	1.66E-06	4.35E-08	1.83E-07	8.76E-11	0.00E+00	2.27E-07	2.67E-08	8.43E-08	2.03E-11	0.00E+00	1.11E-07
4669	420972.84	3734918.84	3.15E-07	1.33E-06	5.84E-10	0.00E+00	1.65E-06	4.32E-08	1.82E-07	8.70E-11	0.00E+00	2.25E-07	2.65E-08	8.37E-08	2.02E-11	0.00E+00	1.10E-07
4670	420964.06	3734922.49	3.12E-07	1.32E-06	5.78E-10	0.00E+00	1.63E-06	4.27E-08	1.80E-07	8.60E-11	0.00E+00	2.23E-07	2.62E-08	8.27E-08	2.00E-11	0.00E+00	1.09E-07
4671	420955.28	3734926.13	3.07E-07	1.30E-06	5.69E-10	0.00E+00	1.60E-06	4.21E-08	1.77E-07	8.47E-11	0.00E+00	2.19E-07	2.58E-08	8.15E-08	1.97E-11	0.00E+00	1.07E-07
4672	420946.49	3734929.78	3.01E-07	1.27E-06	5.58E-10	0.00E+00	1.57E-06	4.13E-08	1.74E-07	8.30E-11	0.00E+00	2.15E-07	2.53E-08	7.99E-08	1.93E-11	0.00E+00	1.05E-07
4673	420937.71	3734933.43	2.94E-07	1.24E-06	5.44E-10	0.00E+00	1.54E-06	4.03E-08	1.70E-07	8.11E-11	0.00E+00	2.10E-07	2.47E-08	7.80E-08	1.88E-11	0.00E+00	1.03E-07
4674	420928.92	3734937.08	2.86E-07	1.21E-06	5.29E-10	0.00E+00	1.49E-06	3.92E-08	1.65E-07	7.88E-11	0.00E+00	2.04E-07	2.40E-08	7.58E-08	1.83E-11	0.00E+00	9.99E-08
4675	420920.14	3734940.73	2.76E-07	1.17E-06	5.12E-10	0.00E+00	1.44E-06	3.79E-08	1.59E-07	7.62E-11	0.00E+00	1.97E-07	2.32E-08	7.33E-08	1.77E-11	0.00E+00	9.65E-08
4676	420911.35	3734944.37	2.66E-07	1.12E-06	4.92E-10	0.00E+00	1.39E-06	3.64E-08	1.53E-07	7.33E-11	0.00E+00	1.90E-07	2.24E-08	7.05E-08	1.70E-11	0.00E+00	9.29E-08
4677	420902.57	3734948.02	2.54E-07	1.07E-06	4.71E-10	0.00E+00	1.33E-06	3.49E-08	1.47E-07	7.02E-11	0.00E+00	1.82E-07	2.14E-08	6.75E-08	1.63E-11	0.00E+00	8.90E-08
4678	420893.78	3734951.67	2.43E-07	1.03E-06	4.50E-10	0.00E+00	1.27E-06	3.33E-08	1.40E-07	6.71E-11	0.00E+00	1.74E-07	2.04E-08	6.45E-08	1.56E-11	0.00E+00	8.50E-08
4679	420885	3734955.32	2.31E-07	9.77E-07	4.29E-10	0.00E+00	1.21E-06	3.17E-08	1.34E-07	6.39E-11	0.00E+00	1.65E-07	1.95E-08	6.14E-08	1.48E-11	0.00E+00	8.09E-08
4680	420876.22	3734958.97	2.20E-07	9.27E-07	4.07E-10	0.00E+00	1.15E-06	3.01E-08	1.27E-07	6.06E-11	0.00E+00	1.57E-07	1.85E-08	5.83E-08	1.41E-11	0.00E+00	7.68E-08
4681	420867.43	3734962.62	2.08E-07	8.76E-07	3.84E-10	0.00E+00	1.08E-06	2.84E-08	1.20E-07	5.73E-11	0.00E+00	1.48E-07	1.75E-08	5.51E-08	1.33E-11	0.00E+00	7.25E-08
4682	420858.65	3734966.26	1.95E-07	8.24E-07	3.62E-10	0.00E+00	1.02E-06	2.68E-08	1.13E-07	5.39E-11	0.00E+00	1.39E-07	1.64E-08	5.18E-08	1.25E-11	0.00E+00	6.82E-08
4683	420849.86	3734969.91	1.83E-07	7.72E-07	3.39E-10	0.00E+00	9.55E-07	2.51E-08	1.06E-07	5.05E-11	0.00E+00	1.31E-07	1.54E-08	4.85E-08	1.17E-11	0.00E+00	6.39E-08
4684	420841.08	3734973.56	1.71E-07	7.21E-07	3.16E-10	0.00E+00	8.92E-07	2.34E-08	9.85E-08	4.71E-11	0.00E+00	1.22E-07	1.44E-08	4.53E-08	1.09E-11	0.00E+00	5.97E-08
4685	420832.29	3734977.21	1.59E-07	6.72E-07	2.95E-10	0.00E+00	8.31E-07	2.18E-08	9.18E-08	4.39E-11	0.00E+00	1.14E-07	1.34E-08	4.22E-08	1.02E-11	0.00E+00	5.56E-08
4686	420823.51	3734980.86	1.48E-07	6.24E-07	2.74E-10	0.00E+00	7.72E-07	2.02E-08	8.53E-08	4.08E-11	0.00E+00	1.06E-07	1.24E-08	3.92E-08	9.46E-12	0.00E+00	5.16E-08
4687	420814.73	3734984.5	1.37E-07	5.77E-07	2.53E-10	0.00E+00	7.14E-07	1.87E-08	7.90E-08	3.77E-11	0.00E+00	9.77E-08	1.15E-08	3.63E-08	8.76E-12	0.00E+00	4.78E-08
4688	420805.94	3734988.15	1.26E-07	5.33E-07	2.34E-10	0.00E+00	6.59E-07	1.73E-08	7.29E-08	3.48E-11	0.00E+00	9.02E-08	1.06E-08	3.35E-08	8.08E-12	0.00E+00	4.41E-08

4689	420797.16	3734991.8	1.16E-07	4.91E-07	2.15E-10	0.00E+00	6.07E-07	1.59E-08	6.71E-08	3.21E-11	0.00E+00	8.31E-08	9.78E-09	3.09E-08	7.45E-12	0.00E+00	4.06E-08
4690	420788.37	3734995.45	1.07E-07	4.52E-07	1.98E-10	0.00E+00	5.59E-07	1.47E-08	6.18E-08	2.95E-11	0.00E+00	7.65E-08	9.01E-09	2.84E-08	6.86E-12	0.00E+00	3.74E-08
4691	420779.59	3734999.1	9.85E-08	4.16E-07	1.83E-10	0.00E+00	5.15E-07	1.35E-08	5.69E-08	2.72E-11	0.00E+00	7.04E-08	8.29E-09	2.61E-08	6.31E-12	0.00E+00	3.44E-08
4692	420770.8	3735002.75	9.02E-08	3.81E-07	1.67E-10	0.00E+00	4.71E-07	1.24E-08	5.21E-08	2.49E-11	0.00E+00	6.45E-08	7.59E-09	2.39E-08	5.78E-12	0.00E+00	3.15E-08
4693	420762.02	3735006.39	8.26E-08	3.49E-07	1.53E-10	0.00E+00	4.31E-07	1.13E-08	4.77E-08	2.28E-11	0.00E+00	5.90E-08	6.95E-09	2.19E-08	5.29E-12	0.00E+00	2.89E-08
4694	420753.23	3735010.04	7.55E-08	3.19E-07	1.40E-10	0.00E+00	3.94E-07	1.04E-08	4.36E-08	2.08E-11	0.00E+00	5.40E-08	6.35E-09	2.00E-08	4.84E-12	0.00E+00	2.64E-08
4695	421364.45	3734391.39	2.85E-08	1.20E-07	5.29E-11	0.00E+00	1.49E-07	3.91E-09	1.65E-08	7.87E-12	0.00E+00	2.04E-08	2.40E-09	7.57E-09	1.83E-12	0.00E+00	9.98E-09
4696	421364.41	3734381.69	2.73E-08	1.15E-07	5.07E-11	0.00E+00	1.43E-07	3.75E-09	1.58E-08	7.55E-12	0.00E+00	1.95E-08	2.30E-09	7.26E-09	1.75E-12	0.00E+00	9.56E-09
4697	421364.37	3734371.99	2.62E-08	1.11E-07	4.86E-11	0.00E+00	1.37E-07	3.60E-09	1.51E-08	7.24E-12	0.00E+00	1.87E-08	2.21E-09	6.96E-09	1.68E-12	0.00E+00	9.17E-09
4698	421364.34	3734362.28	2.51E-08	1.06E-07	4.66E-11	0.00E+00	1.31E-07	3.45E-09	1.45E-08	6.94E-12	0.00E+00	1.80E-08	2.11E-09	6.67E-09	1.61E-12	0.00E+00	8.79E-09
4699	421364.3	3734352.58	2.41E-08	1.02E-07	4.47E-11	0.00E+00	1.26E-07	3.30E-09	1.39E-08	6.65E-12	0.00E+00	1.72E-08	2.03E-09	6.40E-09	1.54E-12	0.00E+00	8.43E-09
4700	421364.27	3734342.88	2.31E-08	9.77E-08	4.29E-11	0.00E+00	1.21E-07	3.17E-09	1.34E-08	6.38E-12	0.00E+00	1.65E-08	1.95E-09	6.14E-09	1.48E-12	0.00E+00	8.08E-09
4701	421364.23	3734333.18	2.22E-08	9.38E-08	4.12E-11	0.00E+00	1.16E-07	3.05E-09	1.28E-08	6.13E-12	0.00E+00	1.59E-08	1.87E-09	5.90E-09	1.42E-12	0.00E+00	7.77E-09
4702	421364.19	3734323.48	2.14E-08	9.02E-08	3.96E-11	0.00E+00	1.12E-07	2.93E-09	1.23E-08	5.90E-12	0.00E+00	1.53E-08	1.80E-09	5.67E-09	1.37E-12	0.00E+00	7.47E-09
4703	421364.16	3734313.77	2.06E-08	8.68E-08	3.81E-11	0.00E+00	1.07E-07	2.82E-09	1.19E-08	5.67E-12	0.00E+00	1.47E-08	1.73E-09	5.46E-09	1.32E-12	0.00E+00	7.19E-09
4704	421364.12	3734304.07	1.98E-08	8.38E-08	3.68E-11	0.00E+00	1.04E-07	2.72E-09	1.15E-08	5.47E-12	0.00E+00	1.42E-08	1.67E-09	5.27E-09	1.27E-12	0.00E+00	6.94E-09
4705	421364.09	3734294.37	1.92E-08	8.09E-08	3.55E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.29E-12	0.00E+00	1.37E-08	1.61E-09	5.09E-09	1.23E-12	0.00E+00	6.70E-09
4706	421382.66	3734444.25	3.42E-08	1.45E-07	6.35E-11	0.00E+00	1.79E-07	4.69E-09	1.98E-08	9.45E-12	0.00E+00	2.45E-08	2.88E-09	9.09E-09	2.19E-12	0.00E+00	1.20E-08
4707	421379.03	3734453.09	3.61E-08	1.52E-07	6.68E-11	0.00E+00	1.88E-07	4.94E-09	2.08E-08	9.95E-12	0.00E+00	2.58E-08	3.03E-09	9.57E-09	2.31E-12	0.00E+00	1.26E-08
4708	421375.4	3734461.92	3.80E-08	1.60E-07	7.04E-11	0.00E+00	1.98E-07	5.21E-09	2.19E-08	1.05E-11	0.00E+00	2.72E-08	3.20E-09	1.01E-08	2.43E-12	0.00E+00	1.33E-08
4709	421371.77	3734470.76	4.00E-08	1.69E-07	7.42E-11	0.00E+00	2.09E-07	5.49E-09	2.31E-08	1.11E-11	0.00E+00	2.86E-08	3.37E-09	1.06E-08	2.57E-12	0.00E+00	1.40E-08
4710	421331.83	3734567.95	7.05E-08	2.98E-07	1.31E-10	0.00E+00	3.68E-07	9.66E-09	4.07E-08	1.94E-11	0.00E+00	5.04E-08	5.93E-09	1.87E-08	4.51E-12	0.00E+00	2.46E-08
4711	421328.2	3734576.78	7.38E-08	3.12E-07	1.37E-10	0.00E+00	3.85E-07	1.01E-08	4.26E-08	2.04E-11	0.00E+00	5.27E-08	6.21E-09	1.96E-08	4.73E-12	0.00E+00	2.58E-08
4712	421324.56	3734585.62	7.74E-08	3.27E-07	1.43E-10	0.00E+00	4.04E-07	1.06E-08	4.47E-08	2.14E-11	0.00E+00	5.53E-08	6.51E-09	2.05E-08	4.96E-12	0.00E+00	2.71E-08
4713	421320.93	3734594.45	8.12E-08	3.43E-07	1.51E-10	0.00E+00	4.24E-07	1.11E-08	4.69E-08	2.24E-11	0.00E+00	5.81E-08	6.83E-09	2.16E-08	5.20E-12	0.00E+00	2.84E-08
4714	421317.3	3734603.29	8.52E-08	3.60E-07	1.58E-10	0.00E+00	4.45E-07	1.17E-08	4.92E-08	2.35E-11	0.00E+00	6.09E-08	7.17E-09	2.26E-08	5.46E-12	0.00E+00	2.98E-08
4715	421313.67	3734612.12	8.94E-08	3.77E-07	1.66E-10	0.00E+00	4.67E-07	1.23E-08	5.16E-08	2.47E-11	0.00E+00	6.39E-08	7.52E-09	2.37E-08	5.73E-12	0.00E+00	3.12E-08
4716	421310.04	3734620.96	9.40E-08	3.97E-07	1.74E-10	0.00E+00	4.91E-07	1.29E-08	5.43E-08	2.59E-11	0.00E+00	6.72E-08	7.91E-09	2.49E-08	6.02E-12	0.00E+00	3.29E-08
4717	421306.41	3734629.8	9.87E-08	4.17E-07	1.83E-10	0.00E+00	5.16E-07	1.35E-08	5.70E-08	2.72E-11	0.00E+00	7.06E-08	8.31E-09	2.62E-08	6.32E-12	0.00E+00	3.45E-08
4718	421302.78	3734638.63	1.04E-07	4.37E-07	1.92E-10	0.00E+00	5.41E-07	1.42E-08	5.98E-08	2.86E-11	0.00E+00	7.40E-08	8.71E-09	2.75E-08	6.63E-12	0.00E+00	3.62E-08
4719	421280.99	3734691.64	1.31E-07	5.51E-07	2.42E-10	0.00E+00	6.82E-07	1.79E-08	7.54E-08	3.60E-11	0.00E+00	9.34E-08	1.10E-08	3.47E-08	8.37E-12	0.00E+00	4.57E-08
4720	421277.36	3734700.48	1.35E-07	5.69E-07	2.50E-10	0.00E+00	7.04E-07	1.85E-08	7.78E-08	3.72E-11	0.00E+00	9.63E-08	1.13E-08	3.57E-08	8.63E-12	0.00E+00	4.71E-08
4721	421273.73	3734709.31	1.39E-07	5.86E-07	2.57E-10	0.00E+00	7.25E-07	1.90E-08	8.01E-08	3.83E-11	0.00E+00	9.91E-08	1.17E-08	3.68E-08	8.89E-12	0.00E+00	4.85E-08
4722	421270.1	3734718.15	1.43E-07	6.02E-07	2.64E-10	0.00E+00	7.45E-07	1.95E-08	8.23E-08	3.94E-11	0.00E+00	1.02E-07	1.20E-08	3.78E-08	9.13E-12	0.00E+00	4.98E-08
4723	421266.47	3734726.98	1.46E-07	6.18E-07	2.71E-10	0.00E+00	7.65E-07	2.01E-08	8.45E-08	4.04E-11	0.00E+00	1.05E-07	1.23E-08	3.88E-08	9.38E-12	0.00E+00	5.12E-08
4724	421262.84	3734735.82	1.50E-07	6.33E-07	2.78E-10	0.00E+00	7.83E-07	2.06E-08	8.66E-08	4.14E-11	0.00E+00	1.07E-07	1.26E-08	3.98E-08	9.61E-12	0.00E+00	5.24E-08
4725	421259.21	3734744.65	1.53E-07	6.48E-07	2.84E-10	0.00E+00	8.02E-07	2.10E-08	8.86E-08	4.23E-11	0.00E+00	1.10E-07	1.29E-08	4.07E-08	9.83E-12	0.00E+00	5.36E-08
4726	421255.58	3734753.49	1.57E-07	6.62E-07	2.90E-10	0.00E+00	8.19E-07	2.15E-08	9.05E-08	4.32E-11	0.00E+00	1.12E-07	1.32E-08	4.16E-08	1.00E-11	0.00E+00	5.48E-08
4727	421203.18	3734863.18	1.85E-07	7.80E-07	3.42E-10	0.00E+00	9.66E-07	2.53E-08	1.07E-07	5.10E-11	0.00E+00	1.32E-07	1.55E-08	4.90E-08	1.18E-11	0.00E+00	6.46E-08
4728	421194.36	3734866.84	1.89E-07	8.00E-07	3.51E-10	0.00E+00	9.90E-07	2.60E-08	1.09E-07	5.23E-11	0.00E+00	1.35E-07	1.59E-08	5.03E-08	1.21E-11	0.00E+00	6.62E-08
4729	421185.54	3734870.5	1.94E-07	8.19E-07	3.59E-10	0.00E+00	1.01E-06	2.66E-08	1.12E-07	5.35E-11	0.00E+00	1.39E-07	1.63E-08	5.15E-08	1.24E-11	0.00E+00	6.78E-08
4730	421159.07	3734881.5	2.07E-07	8.75E-07	3.84E-10	0.00E+00	1.08E-06	2.84E-08	1.20E-07	5.72E-11	0.00E+00	1.48E-07	1.74E-08	5.50E-08	1.33E-11	0.00E+00	7.24E-08
4731	421150.25	3734885.16	2.12E-07	8.94E-07	3.92E-10	0.00E+00	1.11E-06	2.90E-08	1.22E-07	5.84E-11	0.00E+00	1.51E-07	1.78E-08	5.62E-08	1.36E-11	0.00E+00	7.40E-08
4732	421141.43	3734888.82	2.16E-07	9.13E-07	4.01E-10	0.00E+00	1.13E-06	2.97E-08	1.25E-07	5.97E-11	0.00E+00	1.55E-07	1.82E-08	5.74E-08	1.39E-11	0.00E+00	7.56E-08
4733	421088.5	3734910.81	2.50E-07	1.06E-06	4.64E-10	0.00E+00	1.31E-06	3.43E-08	1.45E-07	6.91E-11	0.00E+00	1.79E-07	2.11E-08	6.65E-08	1.60E-11	0.00E+00	8.75E-08
4734	421079.68	3734914.47	2.56E-07	1.08E-06	4.75E-10	0.00E+00	1.34E-06	3.51E-08	1.48E-07	7.08E-11	0.00E+00	1.83E-07	2.16E-08	6.80E-08	1.64E-11	0.00E+00	8.96E-08
4735	421070.86	3734918.13	2.61E-07	1.10E-06	4.83E-10	0.00E+00	1.36E-06	3.57E-08	1.51E-07	7.20E-11	0.00E+00	1.86E-07	2.19E-08	6.92E-08	1.67E-11	0.00E+00	9.12E-08
4736	421062.03	3734921.8	2.65E-07	1.12E-06	4.91E-10	0.00E+00	1.38E-06	3.63E-08	1.53E-07	7.31E-11	0.00E+00	1.89E-07	2.23E-08	7.03E-08	1.70E-11	0.00E+00	9.25E-08
4737	421053.21	3734925.46	2.68E-07	1.13E-06	4.97E-10	0.00E+00	1.40E-06	3.68E-08	1.55E-07	7.40E-11	0.00E+00	1.92E-07	2.26E-08	7.12E-08	1.72E-11	0.00E+00	9.38E-08
4738	421044.39	3734929.12	2.71E-07	1.14E-06	5.02E-10	0.00E+00	1.41E-06	3.71E-08	1.56E-07	7.47E-11	0.00E+00	1.94E-07	2.28E-08	7.19E-08	1.73E-11	0.00E+00	9.47E-08
4739	421035.57	3734932.79	2.73E-07	1.15E-06	5.05E-10	0.00E+00	1.42E-06	3.74E-08	1.57E-07	7.52E-11	0.00E+00	1.95E-07	2.29E-08	7.24E-08	1.75E-11	0.00E+00	9.53E-08
4740	421026.75	3734936.45	2.74E-07	1.16E-06	5.07E-10	0.00E+00	1.43E-06	3.75E-08	1.58E-07	7.56E-11	0.00E+00	1.96E-07	2.30E-08	7.27E-08	1.75E-11	0.00E+00	9.57E-08
4741	421017.93	3734940.12	2.74E-07	1.16E-06	5.08E-10	0.00E+00	1.43E-06	3.76E-08	1.58E-07	7.56E-11	0.00E+00	1.96E-07	2.31E-08	7.27E-08	1.76E-11	0.00E+00	9.58E-08
4742	420991.46	3734951.11	2.69E-07	1.14E-06	4.99E-10	0.00E+00	1.41E-06	3.69E-08	1.56E-07	7.43E-11	0.00E+00	1.93E-07	2.27E-08	7.15E-08	1.73E-11	0.00E+00	9.42E-08
4743	420982.64	3734954.77	2.66E-07	1.12E-06	4.94E-10	0.00E+00	1.39E-06	3.65E-08	1.54E-07	7.35E-11	0.00E+00	1.90E-07	2.24E-08	7.07E-08	1.71E-11	0.00E+00	9.31E-08
4744	420973.82	3734958.43	2.62E-07	1.11E-06	4.86E-10	0.00E+00	1.37E-06	3.60E-08	1.52E-07	7.24E-11	0.00E+00	1.88E-07	2.21E-08	6.96E-08	1.68E-11	0.00E+00	9.17E-08
4745	420965	3734962.1	2.58E-07	1.09E-06	4.77E-10	0.00E+00	1.35E-06	3.53E-08	1.49E-07	7.11E-11	0.00E+00	1.84E-07	2.17E-08	6.84E-08	1.65E-11	0.00E+00	9.00E-08
4746	420956.17	3734965.76	2.52E-07	1.06E-06	4.67E-10	0.00E+00	1.32E-06	3.45E-08	1.45E-07	6.95E-11	0.00E+00	1.80E-07	2.12E-08	6.68E-08	1.61E-11	0.00E+00	8.80E-08
4747	420947.35	3734969.42	2.45E-07	1.04E-06	4.54E-10	0.00E+00	1.28E-06	3.36E-08	1.42E-07	6.77E-11	0.00E+00	1.75E-07	2.06E-08	6.51E-08	1.57E-11	0.00E+00	8.57E-08
4748	420938.53	3734973.09	2.38E-07	1.00E-06	4.41E-10	0.00E+00	1.24E-06	3.26E-08	1.37E-07	6.56E-11	0.00E+00	1.70E-07	2.00E-08	6.31E-08	1.52E-11	0.00E+00	8.31E-08
4749	420929.71	3734976.75	2.30E-07	9.70E-07	4.26E-10	0.00E+00	1.20E-06	3.15E-08	1.33E-07	6.34E-11	0.00E+00	1.64E-07	1.93E-08	6.10E-08	1.47E-11	0.00E+00	8.03E-08
4750	420920.89	3734980.42	2.21E-07	9.33E-07	4.09E-10	0.00E+00	1.15E-06	3.03E-08	1.28E-07	6.10E-11	0.00E+00	1.58E-07	1.86E-08	5.86E-08	1.42E-11	0.00E+00	7.72E-08
4751	420912.06	3734984.08	2.12E-07	8.94E-07	3.92E-10	0.00E+00	1.11E-06	2.90E-08	1.22E-07	5.84E-11	0.00E+00	1.51E-07	1.78E-08	5.62E-08	1.36E-11	0.00E+00	7.40E-08
4752	420903.24	3734987.74	2.02E-07	8.54E-07	3.75E-10	0.00E+00	1.06E-06	2.77E-08	1.17E-07	5.58E-11	0.00E+00	1.44E-07	1.70E-08	5.36E-08	1.29E-11	0.00E+00	7.07E-08
4753	420894.42	3734991.41	1.93E-07	8.13E-07	3.57E-10	0.00E+00	1.01E-06	2.64E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.11E-08	1.23E-11	0.00E+00	6.73E-08
4754	420885.6	3734995.07	1.83E-07	7.73E-07	3.39E-10	0.00E+00	9.57E-07	2.51E-08	1.06E-07	5.05E-11	0.00E+00	1.31E-07	1.54E-08	4.86E-08	1.17E-11	0.00E+00	6.40E-08
4755	420876.78	3734998.73	1.73E-07	7.32E-07	3.21E-10	0.00E+00	9.06E-07	2.38E-08	1.00E-07	4.79E-11	0.00E+00	1.24E-07	1.46E-08	4.60E-08	1.11E-11	0.00E+00	6.06E-08
4756	420867.96	3735002.4	1.64E-07	6.91E-07	3.03E-10	0.00E+00	8.55E-07	2.24E-08	9.45E-08	4.52E-11	0.00E+00	1.17E-07	1.38E-08	4.34E-08	1.05E-11	0.00E+00	5.72E-08
4757	420859.13	3735006.06	1.54E-07	6.49E-07	2.85E-10	0.00E+00	8.03E-07	2.11E-08	8.88E-08	4.24E-11	0.00E+00	1.10E-07	1.29E-08	4.08E-08	9.85E-12	0.00E+00	5.37E-08
4758	420850.31	3735009.73	1.44E-07	6.07E-07	2.67E-10	0.00E+00	7.52E-07	1.97E-08	8.31E-08	3.97E-11	0.00E+00	1.03E-07	1.21E-08	3.82E-08	9.22E-12	0.00E+00	5.03E-08
4759	420841.49	3735013.39	1.34E-07	5.67E-07	2.49E-10	0.00E+00	7.01E-07	1.84E-08	7.75E-08	3.70E-11	0.00E+00	9.60E-08	1.13E-08	3.56E-08	8.60E-12	0.00E+00	4.69E-08
4760	420832.67	3735017.05	1.25E-07	5.28E-07	2.31E-10	0.00E+00	6.53E-07	1.71E-08	7.21E-08	3.45E-11	0.00E+00	8.93E-08	1.05E-08	3.32E-08	8.00E-12	0.00E+00	4.37E-08
4761	420823.85	3735020.72	1.16E-07	4.90E-07	2.15E-10	0.00E+00	6.06E-07	1.59E-08	6.70E-08	3.20E-11	0.00E+00	8.29E-08	9.76E-09	3.08E-08	7.43E-12	0.00E+00	4.05E-08
4762	420815.02	3735024.38	1.07E-07	4.53E-07	1.99E-10	0.00E+00	5.61E-07	1.47E-08	6.20E-08	2.96E-11	0.00E+00	7.67E-08	9.03E-09	2.85E-08	6.88E-12	0.00E+00	3.75E-08
4763	420770.92	3735042.7	7.23E-08	3.05E-07	1.34E-10	0.00E+00	3.78E-07	9.92E-09	4.18E-08	2.00E-11	0.00E+00	5.17E-08	6.09E-09	1.92E-08	4.63E-12	0.00E+00	2.53E-08
4764	420762.09	3735046.36	6.65E-08	2.81E-07	1.23E-10	0.00E+00	3.47E-07	9.12E-09	3.84E-08	1.84E-11	0.00E+00	4.75E-08	5.59E-09	1.76E-08	4.26E-12	0.00E+00	2.32E-08
4765	420753.27	3735050.03	6.11E-08	2.58E-07	1.13E-10	0.00E+00	3.19E-07	8.38E-09	3.53E-08	1.69E-11	0.00E+00	4.37E-08	5.14E-09	1.62E-08	3.92E-12	0.00E+00	2.14E-08
4766	421404.45	3734391.24	2.54E-08	1.07E-07	4.71E-11	0.00E+00	1.33E-07	3.48E-09	1.47E-08	7.01E-12	0.00E+00	1.82E-08	2.14E-09	6.74E-09	1.63E-12	0.00E+00	8.88E-09
4767	421404.41	3734381.54	2.42E-08	1.02E-07	4.48E-11	0.00E+00	1.26E-07	3.32E-09	1.40E-08	6.68E-12	0.00E+00	1.73E-08	2.04E-09	6.42E-09	1.55E-12	0.00E+00	8.46E-09
4768	421404.37	3734371.84	2.31E-08	9.75E-08	4.28E-11	0.00E+00	1.21E-07	3.16E-09	1.33E-08	6.37E-12	0.00E+00	1.65E-08	1.94E-09	6.13E-09	1.48E-12	0.00E+00	8.07E-09
4769	421404.34	3734362.14	2.22E-08	9.38E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.13E-12	0.00E+00	1.59E-08	1.87E-09	5.89E-09	1.42E-12	0.00E+00	7.76E-09
4770	421404.3	3734352.43	2.14E-08	9.04E-08	3.97E-11	0.00E+00	1.12E-07	2.94E-09	1.24E-08	5.91E-12	0.00E+00	1.53E-08	1.80E-09	5.68E-09	1.37E-12	0.00E+00	7.49E-09
4771	421404.27	3734342.73	2.07E-08	8.73E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.70E-12	0.00E+00	1.48E-08	1.74E-09	5.48E-09	1.32E-12	0.00E+00	7.22E-09
4772	421404.23	3734333.03	1.99E-08	8.40E-08	3.69E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.49E-12	0.00E+00	1.42E-08	1.67E-09	5.28E-09	1.27E-12	0.00E+00	6.96E-09
4773	421404.19	3734323.33	1.92E-08	8.09E-08	3.55E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.29E-12	0.00E+00	1.37E-08	1.61E-09	5.09E-09	1.23E-12	0.00E+00	6.70E-09
4774	421404.16	3734313.63	1.85E-08	7.80E-08	3.42E-11	0.00E+00	9.65E-08	2.53E-09	1.07E-08	5.10E-12	0.00E+00	1.32E-08	1.55E-09	4.90E-09	1.18E-12	0.00E+00	6.46E-09
4775	421404.12	3734303.92	1.78E-08	7.53E-08	3.31E-11	0.00E+00	9.32E-08	2.45E-09	1.03E-08	4.92E-12	0.00E+00	1.28E-08	1.50E-09	4.74E-09	1.14E-12	0.00E+00	6.24E-09
4776	421404.09	3734294.22	1.73E-08	7.29E-08	3.20E-11	0.00E+00	9.02E-08	2.37E-09	9.97E-09	4.76E-12	0.00E+00	1.23E-08	1.45E-09	4.58E-09	1.11E-12	0.00E+00	6.04E-09
4777	421422.58	3734444.31	3.03E-08	1.28E-07	5.61E-11	0.00E+00	1.58E-07	4.15E-09	1.75E-08	8.36E-12	0.00E+00	2.17E-08	2.55E-09	8.04E-09	1.94E-12	0.00E+00	1.06E-08
4778	421418.93	3734453.17	3.18E-08	1.34E-07	5.90E-11	0.00E+00	1.66E-07	4.36E-09	1.84E-08	8.78E-12	0.00E+00	2.27E-08	2.68E-09	8.44E-09	2.04E-12	0.00E+00	1.11E-08
4779	421415.29	3734462.04	3.34E-08	1.41E-07	6.19E-11	0.00E+00	1.75E-07	4.58E-09	1.93E-08	9.22E-12	0.00E+00	2.39E-08	2.81E-09	8.87E-09	2.14E-12	0.00E+00	1.17E-08
4780	421411.64	3734470.91	3.51E-08	1.48E-07	6.51E-11	0.00E+00	1.84E-07	4.82E-09	2.03E-08	9.70E-12	0.00E+00	2.51E-08	2.96E-09	9.32E-09	2.25E-12	0.00E+00	1.23E-08

4781	421408	3734479.78	3.69E-08	1.56E-07	6.84E-11	0.00E+00	1.93E-07	5.06E-09	2.13E-08	1.02E-11	0.00E+00	2.64E-08	3.10E-09	9.79E-09	2.36E-12	0.00E+00	1.29E-08
4782	421404.35	3734488.65	3.87E-08	1.64E-07	7.18E-11	0.00E+00	2.02E-07	5.31E-09	2.24E-08	1.07E-11	0.00E+00	2.77E-08	3.26E-09	1.03E-08	2.48E-12	0.00E+00	1.35E-08
4783	421400.71	3734497.52	4.07E-08	1.72E-07	7.54E-11	0.00E+00	2.13E-07	5.58E-09	2.35E-08	1.12E-11	0.00E+00	2.91E-08	3.42E-09	1.08E-08	2.61E-12	0.00E+00	1.42E-08
4784	421367.91	3734577.34	6.25E-08	2.64E-07	1.16E-10	0.00E+00	3.26E-07	8.56E-09	3.61E-08	1.72E-11	0.00E+00	4.46E-08	5.25E-09	1.66E-08	4.00E-12	0.00E+00	2.18E-08
4785	421364.26	3734586.21	6.54E-08	2.76E-07	1.21E-10	0.00E+00	3.42E-07	8.97E-09	3.78E-08	1.81E-11	0.00E+00	4.68E-08	5.51E-09	1.74E-08	4.19E-12	0.00E+00	2.29E-08
4786	421360.62	3734595.08	6.86E-08	2.90E-07	1.27E-10	0.00E+00	3.59E-07	9.41E-09	3.96E-08	1.89E-11	0.00E+00	4.91E-08	5.77E-09	1.82E-08	4.40E-12	0.00E+00	2.40E-08
4787	421356.97	3734603.94	7.19E-08	3.04E-07	1.33E-10	0.00E+00	3.76E-07	9.86E-09	4.15E-08	1.99E-11	0.00E+00	5.14E-08	6.05E-09	1.91E-08	4.61E-12	0.00E+00	2.51E-08
4788	421353.33	3734612.81	7.54E-08	3.18E-07	1.40E-10	0.00E+00	3.94E-07	1.03E-08	4.35E-08	2.08E-11	0.00E+00	5.39E-08	6.34E-09	2.00E-08	4.83E-12	0.00E+00	2.63E-08
4789	421349.68	3734621.68	7.90E-08	3.34E-07	1.46E-10	0.00E+00	4.13E-07	1.08E-08	4.56E-08	2.18E-11	0.00E+00	5.65E-08	6.65E-09	2.10E-08	5.06E-12	0.00E+00	2.76E-08
4790	421346.04	3734630.55	8.27E-08	3.49E-07	1.53E-10	0.00E+00	4.32E-07	1.13E-08	4.78E-08	2.28E-11	0.00E+00	5.91E-08	6.96E-09	2.20E-08	5.30E-12	0.00E+00	2.89E-08
4791	421342.39	3734639.42	8.65E-08	3.65E-07	1.60E-10	0.00E+00	4.52E-07	1.19E-08	5.00E-08	2.39E-11	0.00E+00	6.18E-08	7.28E-09	2.30E-08	5.54E-12	0.00E+00	3.02E-08
4792	421338.75	3734648.29	9.03E-08	3.81E-07	1.67E-10	0.00E+00	4.72E-07	1.24E-08	5.21E-08	2.49E-11	0.00E+00	6.45E-08	7.59E-09	2.40E-08	5.78E-12	0.00E+00	3.16E-08
4793	421335.1	3734657.16	9.41E-08	3.97E-07	1.74E-10	0.00E+00	4.92E-07	1.29E-08	5.43E-08	2.60E-11	0.00E+00	6.73E-08	7.92E-09	2.50E-08	6.03E-12	0.00E+00	3.29E-08
4794	421331.46	3734666.03	9.80E-08	4.14E-07	1.82E-10	0.00E+00	5.12E-07	1.34E-08	5.66E-08	2.71E-11	0.00E+00	7.01E-08	8.25E-09	2.60E-08	6.28E-12	0.00E+00	3.43E-08
4795	421327.81	3734674.89	1.02E-07	4.31E-07	1.89E-10	0.00E+00	5.33E-07	1.40E-08	5.89E-08	2.81E-11	0.00E+00	7.29E-08	8.58E-09	2.71E-08	6.53E-12	0.00E+00	3.57E-08
4796	421324.17	3734683.76	1.06E-07	4.47E-07	1.96E-10	0.00E+00	5.53E-07	1.45E-08	6.11E-08	2.92E-11	0.00E+00	7.57E-08	8.91E-09	2.81E-08	6.78E-12	0.00E+00	3.70E-08
4797	421320.53	3734692.63	1.10E-07	4.63E-07	2.03E-10	0.00E+00	5.73E-07	1.50E-08	6.33E-08	3.03E-11	0.00E+00	7.84E-08	9.23E-09	2.91E-08	7.03E-12	0.00E+00	3.83E-08
4798	421316.88	3734701.5	1.13E-07	4.79E-07	2.10E-10	0.00E+00	5.92E-07	1.55E-08	6.55E-08	3.13E-11	0.00E+00	8.10E-08	9.54E-09	3.01E-08	7.26E-12	0.00E+00	3.96E-08
4799	421313.24	3734710.37	1.17E-07	4.93E-07	2.16E-10	0.00E+00	6.10E-07	1.60E-08	6.75E-08	3.22E-11	0.00E+00	8.35E-08	9.83E-09	3.10E-08	7.48E-12	0.00E+00	4.08E-08
4800	421309.59	3734719.24	1.20E-07	5.08E-07	2.23E-10	0.00E+00	6.28E-07	1.65E-08	6.94E-08	3.32E-11	0.00E+00	8.59E-08	1.01E-08	3.19E-08	7.70E-12	0.00E+00	4.20E-08
4801	421305.95	3734728.11	1.24E-07	5.22E-07	2.29E-10	0.00E+00	6.45E-07	1.69E-08	7.13E-08	3.41E-11	0.00E+00	8.83E-08	1.04E-08	3.28E-08	7.91E-12	0.00E+00	4.32E-08
4802	421302.3	3734736.98	1.27E-07	5.35E-07	2.35E-10	0.00E+00	6.61E-07	1.74E-08	7.31E-08	3.49E-11	0.00E+00	9.05E-08	1.07E-08	3.36E-08	8.11E-12	0.00E+00	4.43E-08
4803	421231.49	3734891.42	1.61E-07	6.81E-07	2.99E-10	0.00E+00	8.42E-07	2.21E-08	9.31E-08	4.45E-11	0.00E+00	1.15E-07	1.36E-08	4.28E-08	1.03E-11	0.00E+00	5.63E-08
4804	421222.63	3734895.1	1.65E-07	6.97E-07	3.06E-10	0.00E+00	8.63E-07	2.26E-08	9.54E-08	4.56E-11	0.00E+00	1.18E-07	1.39E-08	4.38E-08	1.06E-11	0.00E+00	5.77E-08
4805	421213.78	3734898.78	1.69E-07	7.15E-07	3.14E-10	0.00E+00	8.84E-07	2.32E-08	9.77E-08	4.67E-11	0.00E+00	1.21E-07	1.42E-08	4.49E-08	1.08E-11	0.00E+00	5.92E-08
4806	421187.21	3734909.81	1.81E-07	7.64E-07	3.35E-10	0.00E+00	9.45E-07	2.48E-08	1.04E-07	4.99E-11	0.00E+00	1.29E-07	1.52E-08	4.80E-08	1.16E-11	0.00E+00	6.33E-08
4807	421178.36	3734913.49	1.85E-07	7.80E-07	3.42E-10	0.00E+00	9.65E-07	2.53E-08	1.07E-07	5.10E-11	0.00E+00	1.32E-07	1.55E-08	4.90E-08	1.18E-11	0.00E+00	6.46E-08
4808	421169.5	3734917.17	1.89E-07	7.96E-07	3.49E-10	0.00E+00	9.85E-07	2.58E-08	1.09E-07	5.20E-11	0.00E+00	1.35E-07	1.59E-08	5.00E-08	1.21E-11	0.00E+00	6.59E-08
4809	421134.08	3734931.88	2.05E-07	8.66E-07	3.80E-10	0.00E+00	1.07E-06	2.81E-08	1.18E-07	5.66E-11	0.00E+00	1.47E-07	1.72E-08	5.44E-08	1.31E-11	0.00E+00	7.17E-08
4810	421125.22	3734935.55	2.10E-07	8.85E-07	3.88E-10	0.00E+00	1.09E-06	2.87E-08	1.21E-07	5.78E-11	0.00E+00	1.50E-07	1.76E-08	5.56E-08	1.34E-11	0.00E+00	7.32E-08
4811	421089.8	3734950.26	2.26E-07	9.52E-07	4.18E-10	0.00E+00	1.18E-06	3.09E-08	1.30E-07	6.22E-11	0.00E+00	1.61E-07	1.90E-08	5.98E-08	1.44E-11	0.00E+00	7.88E-08
4812	421080.95	3734953.94	2.29E-07	9.65E-07	4.23E-10	0.00E+00	1.19E-06	3.13E-08	1.32E-07	6.31E-11	0.00E+00	1.63E-07	1.92E-08	6.06E-08	1.46E-11	0.00E+00	7.99E-08
4813	421072.09	3734957.62	2.31E-07	9.75E-07	4.28E-10	0.00E+00	1.21E-06	3.16E-08	1.33E-07	6.37E-11	0.00E+00	1.65E-07	1.94E-08	6.13E-08	1.48E-11	0.00E+00	8.07E-08
4814	421063.24	3734961.3	2.33E-07	9.82E-07	4.31E-10	0.00E+00	1.21E-06	3.19E-08	1.34E-07	6.42E-11	0.00E+00	1.66E-07	1.96E-08	6.17E-08	1.49E-11	0.00E+00	8.13E-08
4815	421054.38	3734964.97	2.34E-07	9.87E-07	4.33E-10	0.00E+00	1.22E-06	3.20E-08	1.35E-07	6.45E-11	0.00E+00	1.67E-07	1.97E-08	6.20E-08	1.50E-11	0.00E+00	8.17E-08
4816	421045.53	3734968.65	2.34E-07	9.90E-07	4.34E-10	0.00E+00	1.22E-06	3.21E-08	1.35E-07	6.47E-11	0.00E+00	1.68E-07	1.97E-08	6.22E-08	1.50E-11	0.00E+00	8.19E-08
4817	421036.67	3734972.33	2.35E-07	9.92E-07	4.35E-10	0.00E+00	1.23E-06	3.22E-08	1.36E-07	6.48E-11	0.00E+00	1.68E-07	1.98E-08	6.23E-08	1.50E-11	0.00E+00	8.21E-08
4818	421027.82	3734976.01	2.35E-07	9.90E-07	4.35E-10	0.00E+00	1.23E-06	3.22E-08	1.35E-07	6.47E-11	0.00E+00	1.68E-07	1.97E-08	6.22E-08	1.50E-11	0.00E+00	8.20E-08
4819	421018.96	3734979.69	2.33E-07	9.86E-07	4.33E-10	0.00E+00	1.22E-06	3.20E-08	1.35E-07	6.44E-11	0.00E+00	1.67E-07	1.96E-08	6.19E-08	1.50E-11	0.00E+00	8.16E-08
4820	420992.4	3734990.72	2.26E-07	9.53E-07	4.18E-10	0.00E+00	1.18E-06	3.09E-08	1.30E-07	6.23E-11	0.00E+00	1.61E-07	1.90E-08	5.99E-08	1.45E-11	0.00E+00	7.89E-08
4821	420983.54	3734994.4	2.22E-07	9.36E-07	4.11E-10	0.00E+00	1.16E-06	3.04E-08	1.28E-07	6.12E-11	0.00E+00	1.58E-07	1.87E-08	5.88E-08	1.42E-11	0.00E+00	7.75E-08
4822	420974.69	3734998.07	2.17E-07	9.17E-07	4.02E-10	0.00E+00	1.13E-06	2.98E-08	1.25E-07	5.99E-11	0.00E+00	1.55E-07	1.83E-08	5.76E-08	1.39E-11	0.00E+00	7.59E-08
4823	420965.83	3735001.75	2.12E-07	8.95E-07	3.93E-10	0.00E+00	1.11E-06	2.91E-08	1.22E-07	5.85E-11	0.00E+00	1.52E-07	1.78E-08	5.63E-08	1.36E-11	0.00E+00	7.41E-08
4824	420956.98	3735005.43	2.06E-07	8.71E-07	3.82E-10	0.00E+00	1.08E-06	2.83E-08	1.19E-07	5.69E-11	0.00E+00	1.47E-07	1.73E-08	5.47E-08	1.32E-11	0.00E+00	7.21E-08
4825	420948.12	3735009.11	2.00E-07	8.43E-07	3.70E-10	0.00E+00	1.04E-06	2.74E-08	1.15E-07	5.51E-11	0.00E+00	1.43E-07	1.68E-08	5.30E-08	1.28E-11	0.00E+00	6.98E-08
4826	420939.26	3735012.78	1.93E-07	8.14E-07	3.57E-10	0.00E+00	1.01E-06	2.64E-08	1.11E-07	5.32E-11	0.00E+00	1.38E-07	1.62E-08	5.12E-08	1.24E-11	0.00E+00	6.74E-08
4827	420930.41	3735016.46	1.86E-07	7.84E-07	3.44E-10	0.00E+00	9.70E-07	2.54E-08	1.07E-07	5.12E-11	0.00E+00	1.33E-07	1.56E-08	4.93E-08	1.19E-11	0.00E+00	6.49E-08
4828	420921.55	3735020.14	1.78E-07	7.52E-07	3.30E-10	0.00E+00	9.31E-07	2.44E-08	1.03E-07	4.92E-11	0.00E+00	1.27E-07	1.50E-08	4.73E-08	1.14E-11	0.00E+00	6.23E-08
4829	420868.42	3735042.2	1.30E-07	5.50E-07	2.42E-10	0.00E+00	6.81E-07	1.79E-08	7.53E-08	3.60E-11	0.00E+00	9.32E-08	1.10E-08	3.46E-08	8.35E-12	0.00E+00	4.56E-08
4830	420859.57	3735045.88	1.22E-07	5.16E-07	2.26E-10	0.00E+00	6.38E-07	1.67E-08	7.05E-08	3.37E-11	0.00E+00	8.73E-08	1.03E-08	3.24E-08	7.83E-12	0.00E+00	4.27E-08
4831	420850.71	3735049.56	1.14E-07	4.82E-07	2.12E-10	0.00E+00	5.97E-07	1.57E-08	6.59E-08	3.15E-11	0.00E+00	8.16E-08	9.61E-09	3.03E-08	7.31E-12	0.00E+00	3.99E-08
4832	420841.86	3735053.24	1.06E-07	4.50E-07	1.97E-10	0.00E+00	5.56E-07	1.46E-08	6.15E-08	2.94E-11	0.00E+00	7.61E-08	8.96E-09	2.83E-08	6.82E-12	0.00E+00	3.72E-08
4833	420833	3735056.91	9.92E-08	4.19E-07	1.84E-10	0.00E+00	5.18E-07	1.36E-08	5.73E-08	2.74E-11	0.00E+00	7.09E-08	8.35E-09	2.63E-08	6.35E-12	0.00E+00	3.47E-08
4834	420779.87	3735078.98	6.33E-08	2.67E-07	1.17E-10	0.00E+00	3.31E-07	8.68E-09	3.66E-08	1.75E-11	0.00E+00	4.53E-08	5.33E-09	1.68E-08	4.06E-12	0.00E+00	2.21E-08
4835	420771.02	3735082.66	5.84E-08	2.46E-07	1.08E-10	0.00E+00	3.05E-07	8.00E-09	3.37E-08	1.61E-11	0.00E+00	4.17E-08	4.91E-09	1.55E-08	3.74E-12	0.00E+00	2.04E-08
4836	420762.16	3735086.33	5.38E-08	2.27E-07	9.97E-11	0.00E+00	2.81E-07	7.37E-09	3.11E-08	1.48E-11	0.00E+00	3.85E-08	4.53E-09	1.43E-08	3.45E-12	0.00E+00	1.88E-08
4837	421444.45	3734391.09	2.29E-08	9.68E-08	4.25E-11	0.00E+00	1.20E-07	3.14E-09	1.32E-08	6.32E-12	0.00E+00	1.64E-08	1.93E-09	6.08E-09	1.47E-12	0.00E+00	8.01E-09
4838	421444.41	3734381.39	2.21E-08	9.31E-08	4.09E-11	0.00E+00	1.15E-07	3.02E-09	1.27E-08	6.09E-12	0.00E+00	1.58E-08	1.86E-09	5.85E-09	1.41E-12	0.00E+00	7.71E-09
4839	421444.37	3734371.69	2.12E-08	8.94E-08	3.92E-11	0.00E+00	1.11E-07	2.90E-09	1.22E-08	5.85E-12	0.00E+00	1.51E-08	1.78E-09	5.62E-09	1.36E-12	0.00E+00	7.40E-09
4840	421444.34	3734361.99	2.04E-08	8.60E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.18E-08	5.62E-12	0.00E+00	1.46E-08	1.71E-09	5.40E-09	1.30E-12	0.00E+00	7.12E-09
4841	421444.3	3734352.28	1.96E-08	8.27E-08	3.63E-11	0.00E+00	1.02E-07	2.68E-09	1.13E-08	5.40E-12	0.00E+00	1.40E-08	1.65E-09	5.20E-09	1.25E-12	0.00E+00	6.85E-09
4842	421444.27	3734342.58	1.89E-08	7.96E-08	3.49E-11	0.00E+00	9.85E-08	2.58E-09	1.09E-08	5.20E-12	0.00E+00	1.35E-08	1.59E-09	5.00E-09	1.21E-12	0.00E+00	6.59E-09
4843	421444.23	3734332.88	1.82E-08	7.67E-08	3.36E-11	0.00E+00	9.49E-08	2.49E-09	1.05E-08	5.01E-12	0.00E+00	1.30E-08	1.53E-09	4.82E-09	1.16E-12	0.00E+00	6.35E-09
4844	421444.19	3734323.18	1.75E-08	7.39E-08	3.24E-11	0.00E+00	9.14E-08	2.40E-09	1.01E-08	4.83E-12	0.00E+00	1.25E-08	1.47E-09	4.64E-09	1.12E-12	0.00E+00	6.12E-09
4845	421444.16	3734313.48	1.69E-08	7.13E-08	3.13E-11	0.00E+00	8.82E-08	2.31E-09	9.75E-09	4.66E-12	0.00E+00	1.21E-08	1.42E-09	4.48E-09	1.08E-12	0.00E+00	5.90E-09
4846	421444.12	3734303.77	1.64E-08	6.90E-08	3.03E-11	0.00E+00	8.54E-08	2.24E-09	9.44E-09	4.51E-12	0.00E+00	1.17E-08	1.38E-09	4.34E-09	1.05E-12	0.00E+00	5.72E-09
4847	421444.09	3734294.07	1.59E-08	6.71E-08	2.94E-11	0.00E+00	8.30E-08	2.18E-09	9.17E-09	4.38E-12	0.00E+00	1.14E-08	1.34E-09	4.22E-09	1.02E-12	0.00E+00	5.55E-09
4848	420761.36	3734252.04	1.03E-07	4.35E-07	1.91E-10	0.00E+00	5.38E-07	1.41E-08	5.94E-08	2.84E-11	0.00E+00	7.36E-08	8.66E-09	2.73E-08	6.60E-12	0.00E+00	3.60E-08
4849	420763.1	3734242.07	9.30E-08	3.93E-07	1.72E-10	0.00E+00	4.86E-07	1.28E-08	5.37E-08	2.57E-11	0.00E+00	6.65E-08	7.83E-09	2.47E-08	5.96E-12	0.00E+00	3.25E-08
4850	420776.82	3734250.38	1.01E-07	4.26E-07	1.87E-10	0.00E+00	5.27E-07	1.38E-08	5.83E-08	2.79E-11	0.00E+00	7.22E-08	8.49E-09	2.68E-08	6.47E-12	0.00E+00	3.53E-08
4851	420764.94	3734232.16	8.45E-08	3.57E-07	1.56E-10	0.00E+00	4.41E-07	1.16E-08	4.88E-08	2.33E-11	0.00E+00	6.04E-08	7.11E-09	2.24E-08	5.41E-12	0.00E+00	2.95E-08
4852	420778.28	3734240.24	9.12E-08	3.85E-07	1.69E-10	0.00E+00	4.77E-07	1.25E-08	5.27E-08	2.52E-11	0.00E+00	6.52E-08	7.68E-09	2.42E-08	5.84E-12	0.00E+00	3.19E-08
4853	420791.62	3734248.33	9.79E-08	4.14E-07	1.81E-10	0.00E+00	5.12E-07	1.34E-08	5.65E-08	2.70E-11	0.00E+00	7.00E-08	8.24E-09	2.60E-08	6.27E-12	0.00E+00	3.42E-08
4854	420800.92	3734259.71	1.09E-07	4.58E-07	2.01E-10	0.00E+00	5.67E-07	1.49E-08	6.27E-08	3.00E-11	0.00E+00	7.76E-08	9.13E-09	2.88E-08	6.95E-12	0.00E+00	3.79E-08
4855	420767.92	3734222.95	7.75E-08	3.27E-07	1.44E-10	0.00E+00	4.05E-07	1.06E-08	4.48E-08	2.14E-11	0.00E+00	5.54E-08	6.52E-09	2.06E-08	4.97E-12	0.00E+00	2.71E-08
4856	420783.16	3734232.18	8.43E-08	3.56E-07	1.56E-10	0.00E+00	4.41E-07	1.16E-08	4.87E-08	2.33E-11	0.00E+00	6.03E-08	7.09E-09	2.24E-08	5.40E-12	0.00E+00	2.95E-08
4857	420798.41	3734241.42	9.10E-08	3.84E-07	1.69E-10	0.00E+00	4.76E-07	1.25E-08	5.26E-08	2.51E-11	0.00E+00	6.51E-08	7.66E-09	2.42E-08	5.83E-12	0.00E+00	3.18E-08
4858	420809.04	3734254.43	1.02E-07	4.29E-07	1.88E-10	0.00E+00	5.31E-07	1.39E-08	5.87E-08	2.81E-11	0.00E+00	7.27E-08	8.56E-09	2.70E-08	6.52E-12	0.00E+00	3.56E-08
4859	420769.67	3734212.99	7.09E-08	2.99E-07	1.31E-10	0.00E+00	3.70E-07	9.71E-09	4.09E-08	1.96E-11	0.00E+00	5.06E-08	5.96E-09	1.88E-08	4.54E-12	0.00E+00	2.48E-08
4860	420784.37	3734221.9	7.67E-08	3.24E-07	1.42E-10	0.00E+00	4.01E-07	1.05E-08	4.43E-08	2.12E-11	0.00E+00	5.48E-08	6.45E-09	2.04E-08	4.91E-12	0.00E+00	2.68E-08
4861	420799.07	3734230.8	8.24E-08	3.48E-07	1.53E-10	0.00E+00	4.31E-07	1.13E-08	4.76E-08	2.28E-11	0.00E+00	5.89E-08	6.94E-09	2.19E-08	5.28E-12	0.00E+00	2.88E-08
4862	420771.49	3734203.07	6.50E-08	2.75E-07	1.20E-10	0.00E+00	3.40E-07	8.91E-09	3.75E-08	1.79E-11	0.00E+00	4.65E-08	5.47E-09	1.73E-08	4.17E-12	0.00E+00	2.27E-08
4863	420785.79	3734211.73	7.01E-08	2.96E-07	1.30E-10	0.00E+00	3.66E-07	9.60E-09	4.05E-08	1.93E-11	0.00E+00	5.01E-08	5.89E-09	1.86E-08	4.49E-12	0.00E+00	2.45E-08
4864	420800.08	3734220.39	7.51E-08	3.17E-07	1.39E-10	0.00E+00	3.92E-07	1.03E-08	4.33E-08	2.07E-11	0.00E+00	5.37E-08	6.32E-09	1.99E-08	4.81E-12	0.00E+00	2.62E-08
4865	420814.37	3734229.05	7.99E-08	3.37E-07	1.48E-10	0.00E+00	4.17E-07	1.10E-08	4.61E-08	2.21E-11	0.00E+00	5.71E-08	6.72E-09	2.12E-08	5.12E-12	0.00E+00	2.79E-08
4866	420776.02	3734183.78	5.55E-08	2.34E-07	1.03E-10	0.00E+00	2.90E-07	7.61E-09	3.21E-08	1.53E-11	0.00E+00	3.97E-08	4.67E-09	1.47E-08	3.56E-12	0.00E+00	1.94E-08
4867	420791.27	3734193.01	5.98E-08	2.53E-07	1.11E-10	0.00E+00	3.12E-07	8.20E-09	3.45E-08	1.65E-11	0.00E+00	4.27E-08	5.03E-09	1.59E-08	3.83E-12	0.00E+00	2.09E-08
4868	420806.51	3734202.25	6.41E-08	2.71E-07	1.19E-10	0.00E+00	3.35E-07	8.78E-09	3.70E-08	1.77E-11	0.00E+00	4.58E-08	5.39E-09	1.70E-08	4.10E-12	0.00E+00	2.24E-08
4869	420821.76	3734211.49	6.83E-08	2.88E-07	1.26E-10	0.00E+00	3.57E-07	9.36E-09	3.94E-08	1.88E-11	0.00E+00	4.88E-08	5.74E-09	1.81E-08	4.37E-12	0.00E+00	2.39E-08
4870	420846.03	3734245.89	8.76E-08	3.70E-07	1.62E-10	0.00E+00	4.58E-07	1.20E-08	5.06E-08	2.42E-11	0.00E+00	6.26E-08	7.37E-09	2.32E-08	5.61E-12	0.00E+00	3.06E-08
4871	420794.28	3734172.8	5.10E-08	2.15E-07	9.45E-11	0.00E+00	2.66E-07	6.99E-09	2.94E-08	1.41E-11	0.00E+00	3.65E-08	4.29E-09	1.35E-08	3.27E-12	0.00E+00	1.78E-08
4872	420808.83	3734181.62	5.43E-08	2.29E-07	1.01E-10	0.00E+00	2.84E-07	7.45E-09	3.14E-08	1.50E-11	0.00E+00	3.88E-08	4.57E-09	1.44E-08	3.48E-12	0.00E+00	1.90E-08

4873	420823.38	3734190.43	5.76E-08	2.43E-07	1.07E-10	0.00E+00	3.01E-07	7.90E-09	3.33E-08	1.59E-11	0.00E+00	4.12E-08	4.85E-09	1.53E-08	3.69E-12	0.00E+00	2.01E-08
4874	420855.36	3734216.07	6.75E-08	2.85E-07	1.25E-10	0.00E+00	3.52E-07	9.25E-09	3.90E-08	1.86E-11	0.00E+00	4.82E-08	5.68E-09	1.79E-08	4.32E-12	0.00E+00	2.36E-08
4875	420861.1	3734232.09	7.56E-08	3.19E-07	1.40E-10	0.00E+00	3.95E-07	1.04E-08	4.36E-08	2.09E-11	0.00E+00	5.40E-08	6.36E-09	2.01E-08	4.84E-12	0.00E+00	2.64E-08
4876	420866.85	3734248.11	8.46E-08	3.57E-07	1.57E-10	0.00E+00	4.42E-07	1.16E-08	4.88E-08	2.33E-11	0.00E+00	6.05E-08	7.12E-09	2.24E-08	5.42E-12	0.00E+00	2.96E-08
4877	420784.12	3734144.61	4.15E-08	1.75E-07	7.69E-11	0.00E+00	2.17E-07	5.69E-09	2.40E-08	1.15E-11	0.00E+00	2.97E-08	3.49E-09	1.10E-08	2.66E-12	0.00E+00	1.45E-08
4878	420829.86	3734172.32	5.01E-08	2.11E-07	9.28E-11	0.00E+00	2.62E-07	6.87E-09	2.89E-08	1.38E-11	0.00E+00	3.58E-08	4.21E-09	1.33E-08	3.21E-12	0.00E+00	1.75E-08
4879	420860.35	3734190.79	5.54E-08	2.34E-07	1.03E-10	0.00E+00	2.89E-07	7.59E-09	3.20E-08	1.53E-11	0.00E+00	3.96E-08	4.66E-09	1.47E-08	3.55E-12	0.00E+00	1.94E-08
4880	420870.98	3734203.8	5.98E-08	2.53E-07	1.11E-10	0.00E+00	3.12E-07	8.20E-09	3.45E-08	1.65E-11	0.00E+00	4.27E-08	5.03E-09	1.59E-08	3.83E-12	0.00E+00	2.09E-08
4881	420873.99	3734212.19	6.32E-08	2.67E-07	1.17E-10	0.00E+00	3.30E-07	8.66E-09	3.65E-08	1.74E-11	0.00E+00	4.52E-08	5.32E-09	1.68E-08	4.05E-12	0.00E+00	2.21E-08
4882	420880.01	3734228.97	7.05E-08	2.98E-07	1.31E-10	0.00E+00	3.68E-07	9.66E-09	4.07E-08	1.95E-11	0.00E+00	5.04E-08	5.93E-09	1.87E-08	4.52E-12	0.00E+00	2.46E-08
4883	420886.03	3734245.74	7.85E-08	3.31E-07	1.45E-10	0.00E+00	4.10E-07	1.08E-08	4.53E-08	2.17E-11	0.00E+00	5.61E-08	6.60E-09	2.08E-08	5.03E-12	0.00E+00	2.74E-08
4884	420889.04	3734254.13	8.28E-08	3.49E-07	1.53E-10	0.00E+00	4.32E-07	1.13E-08	4.78E-08	2.28E-11	0.00E+00	5.91E-08	6.96E-09	2.20E-08	5.30E-12	0.00E+00	2.89E-08
4885	420787.9	3734124.86	3.64E-08	1.54E-07	6.74E-11	0.00E+00	1.90E-07	4.99E-09	2.10E-08	1.00E-11	0.00E+00	2.60E-08	3.06E-09	9.65E-09	2.33E-12	0.00E+00	1.27E-08
4886	420802.6	3734133.76	3.86E-08	1.63E-07	7.16E-11	0.00E+00	2.02E-07	5.30E-09	2.23E-08	1.07E-11	0.00E+00	2.76E-08	3.25E-09	1.03E-08	2.48E-12	0.00E+00	1.35E-08
4887	420817.3	3734142.67	4.09E-08	1.73E-07	7.58E-11	0.00E+00	2.14E-07	5.61E-09	2.36E-08	1.13E-11	0.00E+00	2.93E-08	3.44E-09	1.09E-08	2.62E-12	0.00E+00	1.43E-08
4888	420876.11	3734178.3	4.96E-08	2.09E-07	9.19E-11	0.00E+00	2.59E-07	6.80E-09	2.86E-08	1.37E-11	0.00E+00	3.55E-08	4.17E-09	1.32E-08	3.18E-12	0.00E+00	1.73E-08
4889	420886.36	3734190.84	5.31E-08	2.24E-07	9.83E-11	0.00E+00	2.77E-07	7.28E-09	3.06E-08	1.46E-11	0.00E+00	3.79E-08	4.47E-09	1.41E-08	3.40E-12	0.00E+00	1.86E-08
4890	420892.16	3734207.02	5.85E-08	2.47E-07	1.08E-10	0.00E+00	3.06E-07	8.03E-09	3.38E-08	1.62E-11	0.00E+00	4.18E-08	4.93E-09	1.55E-08	3.75E-12	0.00E+00	2.05E-08
4891	420897.97	3734223.2	6.45E-08	2.72E-07	1.19E-10	0.00E+00	3.37E-07	8.84E-09	3.72E-08	1.78E-11	0.00E+00	4.61E-08	5.42E-09	1.71E-08	4.13E-12	0.00E+00	2.25E-08
4892	420903.77	3734239.38	7.09E-08	3.00E-07	1.31E-10	0.00E+00	3.71E-07	9.73E-09	4.10E-08	1.96E-11	0.00E+00	5.07E-08	5.97E-09	1.88E-08	4.54E-12	0.00E+00	2.48E-08
4893	420909.58	3734255.56	7.78E-08	3.28E-07	1.44E-10	0.00E+00	4.06E-07	1.07E-08	4.49E-08	2.15E-11	0.00E+00	5.56E-08	6.54E-09	2.06E-08	4.98E-12	0.00E+00	2.72E-08
4894	420792.23	3734105.43	3.22E-08	1.36E-07	5.96E-11	0.00E+00	1.68E-07	4.41E-09	1.86E-08	8.88E-12	0.00E+00	2.30E-08	2.71E-09	8.54E-09	2.06E-12	0.00E+00	1.12E-08
4895	420807.47	3734114.67	3.41E-08	1.44E-07	6.33E-11	0.00E+00	1.78E-07	4.68E-09	1.97E-08	9.42E-12	0.00E+00	2.44E-08	2.87E-09	9.06E-09	2.19E-12	0.00E+00	1.19E-08
4896	420822.72	3734123.91	3.61E-08	1.53E-07	6.70E-11	0.00E+00	1.89E-07	4.95E-09	2.09E-08	9.97E-12	0.00E+00	2.58E-08	3.04E-09	9.59E-09	2.31E-12	0.00E+00	1.26E-08
4897	420837.96	3734133.15	3.81E-08	1.61E-07	7.06E-11	0.00E+00	1.99E-07	5.23E-09	2.20E-08	1.05E-11	0.00E+00	2.72E-08	3.21E-09	1.01E-08	2.44E-12	0.00E+00	1.33E-08
4898	420883.7	3734160.86	4.37E-08	1.85E-07	8.10E-11	0.00E+00	2.28E-07	5.99E-09	2.52E-08	1.21E-11	0.00E+00	3.13E-08	3.68E-09	1.16E-08	2.80E-12	0.00E+00	1.53E-08
4899	420901.95	3734178.48	4.75E-08	2.01E-07	8.81E-11	0.00E+00	2.48E-07	6.52E-09	2.74E-08	1.31E-11	0.00E+00	3.40E-08	4.00E-09	1.26E-08	3.04E-12	0.00E+00	1.66E-08
4900	420907.97	3734195.26	5.23E-08	2.21E-07	9.69E-11	0.00E+00	2.73E-07	7.17E-09	3.02E-08	1.44E-11	0.00E+00	3.74E-08	4.40E-09	1.39E-08	3.35E-12	0.00E+00	1.83E-08
4901	420910.98	3734203.65	5.48E-08	2.31E-07	1.02E-10	0.00E+00	2.86E-07	7.51E-09	3.16E-08	1.51E-11	0.00E+00	3.92E-08	4.61E-09	1.45E-08	3.51E-12	0.00E+00	1.92E-08
4902	420917	3734220.43	6.01E-08	2.54E-07	1.11E-10	0.00E+00	3.14E-07	8.23E-09	3.47E-08	1.66E-11	0.00E+00	4.29E-08	5.05E-09	1.59E-08	3.85E-12	0.00E+00	2.10E-08
4903	420923.02	3734237.21	6.57E-08	2.77E-07	1.22E-10	0.00E+00	3.43E-07	9.01E-09	3.79E-08	1.81E-11	0.00E+00	4.70E-08	5.53E-09	1.74E-08	4.21E-12	0.00E+00	2.30E-08
4904	420929.04	3734253.98	7.16E-08	3.02E-07	1.33E-10	0.00E+00	3.74E-07	9.81E-09	4.13E-08	1.98E-11	0.00E+00	5.12E-08	6.02E-09	1.90E-08	4.59E-12	0.00E+00	2.50E-08
4905	420796.52	3734085.99	2.87E-08	1.21E-07	5.31E-11	0.00E+00	1.50E-07	3.93E-09	1.65E-08	7.91E-12	0.00E+00	2.05E-08	2.41E-09	7.61E-09	1.84E-12	0.00E+00	1.00E-08
4906	420804.38	3734090.76	2.95E-08	1.25E-07	5.47E-11	0.00E+00	1.54E-07	4.04E-09	1.70E-08	8.14E-12	0.00E+00	2.11E-08	2.48E-09	7.83E-09	1.89E-12	0.00E+00	1.03E-08
4907	420812.24	3734095.52	3.04E-08	1.28E-07	5.63E-11	0.00E+00	1.59E-07	4.16E-09	1.75E-08	8.38E-12	0.00E+00	2.17E-08	2.55E-09	8.06E-09	1.95E-12	0.00E+00	1.06E-08
4908	420820.1	3734100.28	3.12E-08	1.32E-07	5.78E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.61E-12	0.00E+00	2.23E-08	2.63E-09	8.28E-09	2.00E-12	0.00E+00	1.09E-08
4909	420827.96	3734105.05	3.21E-08	1.35E-07	5.94E-11	0.00E+00	1.68E-07	4.40E-09	1.85E-08	8.85E-12	0.00E+00	2.29E-08	2.70E-09	8.51E-09	2.06E-12	0.00E+00	1.12E-08
4910	420835.82	3734109.81	3.29E-08	1.39E-07	6.11E-11	0.00E+00	1.72E-07	4.52E-09	1.90E-08	9.09E-12	0.00E+00	2.36E-08	2.77E-09	8.74E-09	2.11E-12	0.00E+00	1.15E-08
4911	420843.68	3734114.57	3.38E-08	1.43E-07	6.27E-11	0.00E+00	1.77E-07	4.64E-09	1.95E-08	9.33E-12	0.00E+00	2.42E-08	2.84E-09	8.97E-09	2.17E-12	0.00E+00	1.18E-08
4912	420906.56	3734152.67	4.02E-08	1.70E-07	7.44E-11	0.00E+00	2.10E-07	5.51E-09	2.32E-08	1.11E-11	0.00E+00	2.87E-08	3.38E-09	1.07E-08	2.57E-12	0.00E+00	1.40E-08
4913	420917.53	3734166.09	4.28E-08	1.81E-07	7.92E-11	0.00E+00	2.23E-07	5.86E-09	2.47E-08	1.18E-11	0.00E+00	3.06E-08	3.60E-09	1.13E-08	2.74E-12	0.00E+00	1.49E-08
4914	420920.63	3734174.74	4.48E-08	1.89E-07	8.30E-11	0.00E+00	2.34E-07	6.14E-09	2.59E-08	1.24E-11	0.00E+00	3.20E-08	3.77E-09	1.19E-08	2.87E-12	0.00E+00	1.57E-08
4915	420923.74	3734183.39	4.69E-08	1.98E-07	8.69E-11	0.00E+00	2.45E-07	6.43E-09	2.71E-08	1.29E-11	0.00E+00	3.35E-08	3.94E-09	1.24E-08	3.00E-12	0.00E+00	1.64E-08
4916	420926.84	3734192.04	4.90E-08	2.07E-07	9.09E-11	0.00E+00	2.56E-07	6.72E-09	2.83E-08	1.35E-11	0.00E+00	3.51E-08	4.13E-09	1.30E-08	3.14E-12	0.00E+00	1.71E-08
4917	420929.95	3734200.69	5.13E-08	2.17E-07	9.50E-11	0.00E+00	2.68E-07	7.03E-09	2.96E-08	1.42E-11	0.00E+00	3.67E-08	4.31E-09	1.36E-08	3.29E-12	0.00E+00	1.79E-08
4918	420933.05	3734209.34	5.36E-08	2.26E-07	9.93E-11	0.00E+00	2.80E-07	7.35E-09	3.09E-08	1.48E-11	0.00E+00	3.83E-08	4.51E-09	1.42E-08	3.43E-12	0.00E+00	1.87E-08
4919	420936.15	3734217.99	5.60E-08	2.36E-07	1.04E-10	0.00E+00	2.92E-07	7.67E-09	3.23E-08	1.54E-11	0.00E+00	4.00E-08	4.71E-09	1.49E-08	3.59E-12	0.00E+00	1.96E-08
4920	420939.26	3734226.65	5.84E-08	2.47E-07	1.08E-10	0.00E+00	3.05E-07	8.00E-09	3.37E-08	1.61E-11	0.00E+00	4.17E-08	4.91E-09	1.55E-08	3.74E-12	0.00E+00	2.04E-08
4921	420942.36	3734235.3	6.09E-08	2.57E-07	1.13E-10	0.00E+00	3.18E-07	8.34E-09	3.51E-08	1.68E-11	0.00E+00	4.35E-08	5.12E-09	1.61E-08	3.90E-12	0.00E+00	2.13E-08
4922	420945.46	3734243.95	6.34E-08	2.68E-07	1.17E-10	0.00E+00	3.31E-07	8.69E-09	3.66E-08	1.75E-11	0.00E+00	4.53E-08	5.33E-09	1.68E-08	4.06E-12	0.00E+00	2.22E-08
4923	420948.57	3734252.6	6.59E-08	2.78E-07	1.22E-10	0.00E+00	3.44E-07	9.04E-09	3.81E-08	1.82E-11	0.00E+00	4.71E-08	5.55E-09	1.75E-08	4.22E-12	0.00E+00	2.30E-08
4924	420960.98	3734287.2	7.66E-08	3.23E-07	1.42E-10	0.00E+00	4.00E-07	1.05E-08	4.42E-08	2.11E-11	0.00E+00	5.47E-08	6.44E-09	2.03E-08	4.91E-12	0.00E+00	2.68E-08
4925	420807.95	3734070.88	2.63E-08	1.11E-07	4.88E-11	0.00E+00	1.38E-07	3.61E-09	1.52E-08	7.27E-12	0.00E+00	1.88E-08	2.22E-09	6.99E-09	1.69E-12	0.00E+00	9.21E-09
4926	420823.2	3734080.12	2.77E-08	1.17E-07	5.14E-11	0.00E+00	1.45E-07	3.80E-09	1.60E-08	7.66E-12	0.00E+00	1.98E-08	2.33E-09	7.36E-09	1.78E-12	0.00E+00	9.70E-09
4927	420838.44	3734089.36	2.92E-08	1.23E-07	5.40E-11	0.00E+00	1.52E-07	4.00E-09	1.68E-08	8.05E-12	0.00E+00	2.08E-08	2.45E-09	7.74E-09	1.87E-12	0.00E+00	1.02E-08
4928	420853.69	3734098.59	3.06E-08	1.29E-07	5.67E-11	0.00E+00	1.60E-07	4.19E-09	1.77E-08	8.44E-12	0.00E+00	2.19E-08	2.57E-09	8.12E-09	1.96E-12	0.00E+00	1.07E-08
4929	420914.67	3734135.54	3.59E-08	1.51E-07	6.64E-11	0.00E+00	1.87E-07	4.92E-09	2.07E-08	9.89E-12	0.00E+00	2.56E-08	3.02E-09	9.52E-09	2.30E-12	0.00E+00	1.25E-08
4930	420932.92	3734153.17	3.85E-08	1.63E-07	7.14E-11	0.00E+00	2.01E-07	5.28E-09	2.22E-08	1.06E-11	0.00E+00	2.75E-08	3.24E-09	1.02E-08	2.47E-12	0.00E+00	1.35E-08
4931	420938.94	3734169.95	4.19E-08	1.77E-07	7.77E-11	0.00E+00	2.19E-07	5.75E-09	2.42E-08	1.16E-11	0.00E+00	3.00E-08	3.53E-09	1.11E-08	2.69E-12	0.00E+00	1.47E-08
4932	420944.96	3734186.72	4.55E-08	1.92E-07	8.43E-11	0.00E+00	2.38E-07	6.24E-09	2.63E-08	1.26E-11	0.00E+00	3.25E-08	3.83E-09	1.21E-08	2.91E-12	0.00E+00	1.59E-08
4933	420950.98	3734203.5	4.93E-08	2.08E-07	9.13E-11	0.00E+00	2.57E-07	6.75E-09	2.84E-08	1.36E-11	0.00E+00	3.52E-08	4.14E-09	1.31E-08	3.16E-12	0.00E+00	1.72E-08
4934	420953.99	3734211.89	5.12E-08	2.16E-07	9.49E-11	0.00E+00	2.67E-07	7.02E-09	2.96E-08	1.41E-11	0.00E+00	3.66E-08	4.31E-09	1.36E-08	3.28E-12	0.00E+00	1.79E-08
4935	420960.01	3734228.67	5.52E-08	2.33E-07	1.02E-10	0.00E+00	2.88E-07	7.56E-09	3.18E-08	1.52E-11	0.00E+00	3.94E-08	4.64E-09	1.46E-08	3.53E-12	0.00E+00	1.93E-08
4936	420966.03	3734245.45	5.92E-08	2.50E-07	1.10E-10	0.00E+00	3.09E-07	8.12E-09	3.42E-08	1.63E-11	0.00E+00	4.23E-08	4.98E-09	1.57E-08	3.79E-12	0.00E+00	2.07E-08
4937	420812.4	3734051.54	2.37E-08	1.00E-07	4.39E-11	0.00E+00	1.24E-07	3.25E-09	1.37E-08	6.54E-12	0.00E+00	1.69E-08	1.99E-09	6.29E-09	1.52E-12	0.00E+00	8.29E-09
4938	420820.23	3734056.28	2.43E-08	1.03E-07	4.51E-11	0.00E+00	1.27E-07	3.33E-09	1.40E-08	6.71E-12	0.00E+00	1.74E-08	2.05E-09	6.45E-09	1.56E-12	0.00E+00	8.50E-09
4939	420828.05	3734061.02	2.49E-08	1.05E-07	4.62E-11	0.00E+00	1.30E-07	3.42E-09	1.44E-08	6.88E-12	0.00E+00	1.78E-08	2.10E-09	6.62E-09	1.60E-12	0.00E+00	8.72E-09
4940	420835.87	3734065.76	2.56E-08	1.08E-07	4.74E-11	0.00E+00	1.34E-07	3.51E-09	1.48E-08	7.06E-12	0.00E+00	1.83E-08	2.15E-09	6.79E-09	1.64E-12	0.00E+00	8.94E-09
4941	420843.7	3734070.5	2.62E-08	1.11E-07	4.85E-11	0.00E+00	1.37E-07	3.59E-09	1.51E-08	7.23E-12	0.00E+00	1.87E-08	2.20E-09	6.95E-09	1.68E-12	0.00E+00	9.16E-09
4942	420851.52	3734075.24	2.68E-08	1.13E-07	4.97E-11	0.00E+00	1.40E-07	3.68E-09	1.55E-08	7.40E-12	0.00E+00	1.92E-08	2.26E-09	7.12E-09	1.72E-12	0.00E+00	9.38E-09
4943	420906.28	3734108.42	3.11E-08	1.31E-07	5.75E-11	0.00E+00	1.62E-07	4.26E-09	1.79E-08	8.57E-12	0.00E+00	2.22E-08	2.61E-09	8.24E-09	1.99E-12	0.00E+00	1.09E-08
4944	420914.1	3734113.16	3.16E-08	1.34E-07	5.86E-11	0.00E+00	1.65E-07	4.33E-09	1.83E-08	8.72E-12	0.00E+00	2.26E-08	2.66E-09	8.39E-09	2.03E-12	0.00E+00	1.11E-08
4945	420921.93	3734117.9	3.21E-08	1.36E-07	5.96E-11	0.00E+00	1.68E-07	4.41E-09	1.86E-08	8.87E-12	0.00E+00	2.30E-08	2.70E-09	8.53E-09	2.06E-12	0.00E+00	1.12E-08
4946	420929.75	3734122.64	3.26E-08	1.38E-07	6.05E-11	0.00E+00	1.71E-07	4.47E-09	1.88E-08	9.01E-12	0.00E+00	2.33E-08	2.75E-09	8.66E-09	2.09E-12	0.00E+00	1.14E-08
4947	420937.57	3734127.38	3.31E-08	1.40E-07	6.13E-11	0.00E+00	1.73E-07	4.54E-09	1.91E-08	9.14E-12	0.00E+00	2.37E-08	2.79E-09	8.79E-09	2.12E-12	0.00E+00	1.16E-08
4948	420948.48	3734140.73	3.50E-08	1.48E-07	6.48E-11	0.00E+00	1.83E-07	4.79E-09	2.02E-08	9.65E-12	0.00E+00	2.50E-08	2.94E-09	9.28E-09	2.24E-12	0.00E+00	1.22E-08
4949	420951.57	3734149.34	3.64E-08	1.54E-07	6.75E-11	0.00E+00	1.90E-07	4.99E-09	2.10E-08	1.01E-11	0.00E+00	2.60E-08	3.06E-09	9.66E-09	2.33E-12	0.00E+00	1.27E-08
4950	420954.66	3734157.95	3.79E-08	1.60E-07	7.03E-11	0.00E+00	1.98E-07	5.20E-09	2.19E-08	1.05E-11	0.00E+00	2.71E-08	3.19E-09	1.01E-08	2.43E-12	0.00E+00	1.33E-08
4951	420957.75	3734166.56	3.95E-08	1.67E-07	7.31E-11	0.00E+00	2.06E-07	5.41E-09	2.28E-08	1.09E-11	0.00E+00	2.82E-08	3.32E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
4952	420960.84	3734175.17	4.11E-08	1.73E-07	7.61E-11	0.00E+00	2.14E-07	5.63E-09	2.37E-08	1.13E-11	0.00E+00	2.93E-08	3.45E-09	1.09E-08	2.63E-12	0.00E+00	1.43E-08
4953	420963.93	3734183.78	4.27E-08	1.80E-07	7.91E-11	0.00E+00	2.23E-07	5.85E-09	2.46E-08	1.18E-11	0.00E+00	3.05E-08	3.59E-09	1.13E-08	2.73E-12	0.00E+00	1.49E-08
4954	420967.02	3734192.39	4.43E-08	1.87E-07	8.21E-11	0.00E+00	2.31E-07	6.07E-09	2.56E-08	1.22E-11	0.00E+00	3.17E-08	3.73E-09	1.18E-08	2.84E-12	0.00E+00	1.55E-08
4955	420970.11	3734201	4.60E-08	1.94E-07	8.52E-11	0.00E+00	2.40E-07	6.30E-09	2.65E-08	1.27E-11	0.00E+00	3.29E-08	3.87E-09	1.22E-08	2.95E-12	0.00E+00	1.61E-08
4956	420973.2	3734209.61	4.77E-08	2.01E-07	8.83E-11	0.00E+00	2.49E-07	6.53E-09	2.75E-08	1.32E-11	0.00E+00	3.41E-08	4.01E-09	1.26E-08	3.05E-12	0.00E+00	1.67E-08
4957	420976.29	3734218.22	4.94E-08	2.08E-07	9.15E-11	0.00E+00	2.58E-07	6.77E-09	2.85E-08	1.36E-11	0.00E+00	3.53E-08	4.15E-09	1.31E-08	3.16E-12	0.00E+00	1.73E-08
4958	420979.38	3734226.83	5.11E-08	2.16E-07	9.47E-11	0.00E+00	2.67E-07	7.00E-09	2.95E-08	1.41E-11	0.00E+00	3.65E-08	4.30E-09	1.36E-08	3.27E-12	0.00E+00	1.79E-08
4959	420982.46	3734235.44	5.28E-08	2.23E-07	9.79E-11	0.00E+00	2.76E-07	7.24E-09	3.05E-08	1.46E-11	0.00E+00	3.78E-08	4.44E-09	1.40E-08	3.38E-12	0.00E+00	1.85E-08
4960	420985.55	3734244.05	5.46E-08	2.30E-07	1.01E-10	0.00E+00	2.85E-07	7.48E-09	3.15E-08	1.51E-11	0.00E+00	3.90E-08	4.59E-09	1.45E-08	3.50E-12	0.00E+00	1.91E-08
4961	420988.64	3734252.66	5.63E-08	2.38E-07	1.04E-10	0.00E+00	2.94E-07	7.72E-09	3.25E-08	1.55E-11	0.00E+00	4.03E-08	4.74E-09	1.49E-08	3.61E-12	0.00E+00	1.97E-08
4962	421001	3734287.1	6.38E-08	2.69E-07	1.18E-10	0.00E+00	3.33E-07	8.74E-09	3.68E-08	1.76E-11	0.00E+00	4.56E-08	5.37E-09	1.69E-08	4.09E-12	0.00E+00	2.23E-08
4963	420816.05	3734031.71	2.14E-08	9.03E-08	3.96E-11	0.00E+00	1.12E-07	2.93E-09	1.23E-08	5.90E-12	0.00E+00	1.53E-08	1.80E-09	5.68E-09	1.37E-12	0.00E+00	7.48E-09
4964	420831.3	3734040.95	2.24E-08	9.47E-08	4.16E-11	0.00E+00	1.17E-07	3.07E-09	1.30E-08	6.19E-12	0.00E+00	1.60E-08	1.89E-09	5.95E-09	1.44E-12	0.00E+00	7.84E-09

4965	420846.54	3734050.19	2.35E-08	9.92E-08	4.35E-11	0.00E+00	1.23E-07	3.22E-09	1.36E-08	6.48E-12	0.00E+00	1.68E-08	1.98E-09	6.23E-09	1.50E-12	0.00E+00	8.21E-09
4966	420907.52	3734087.13	2.76E-08	1.17E-07	5.12E-11	0.00E+00	1.44E-07	3.79E-09	1.60E-08	7.62E-12	0.00E+00	1.97E-08	2.32E-09	7.33E-09	1.77E-12	0.00E+00	9.66E-09
4967	420922.77	3734096.37	2.86E-08	1.21E-07	5.30E-11	0.00E+00	1.49E-07	3.92E-09	1.65E-08	7.89E-12	0.00E+00	2.04E-08	2.41E-09	7.59E-09	1.83E-12	0.00E+00	1.00E-08
4968	420938.01	3734105.61	2.95E-08	1.24E-07	5.46E-11	0.00E+00	1.54E-07	4.04E-09	1.70E-08	8.13E-12	0.00E+00	2.11E-08	2.48E-09	7.82E-09	1.89E-12	0.00E+00	1.03E-08
4969	420953.26	3734114.85	3.03E-08	1.28E-07	5.61E-11	0.00E+00	1.58E-07	4.15E-09	1.75E-08	8.35E-12	0.00E+00	2.16E-08	2.55E-09	8.03E-09	1.94E-12	0.00E+00	1.06E-08
4970	420963.89	3734127.85	3.18E-08	1.34E-07	5.89E-11	0.00E+00	1.66E-07	4.36E-09	1.84E-08	8.77E-12	0.00E+00	2.27E-08	2.67E-09	8.43E-09	2.04E-12	0.00E+00	1.11E-08
4971	420966.9	3734136.24	3.30E-08	1.39E-07	6.11E-11	0.00E+00	1.72E-07	4.52E-09	1.91E-08	9.11E-12	0.00E+00	2.36E-08	2.78E-09	8.76E-09	2.11E-12	0.00E+00	1.15E-08
4972	420969.91	3734144.63	3.42E-08	1.45E-07	6.35E-11	0.00E+00	1.79E-07	4.69E-09	1.98E-08	9.45E-12	0.00E+00	2.45E-08	2.88E-09	9.09E-09	2.19E-12	0.00E+00	1.20E-08
4973	420975.93	3734161.41	3.68E-08	1.56E-07	6.82E-11	0.00E+00	1.92E-07	5.05E-09	2.13E-08	1.02E-11	0.00E+00	2.63E-08	3.10E-09	9.77E-09	2.36E-12	0.00E+00	1.29E-08
4974	420981.95	3734178.19	3.95E-08	1.67E-07	7.32E-11	0.00E+00	2.06E-07	5.42E-09	2.28E-08	1.09E-11	0.00E+00	2.82E-08	3.32E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
4975	420987.97	3734194.96	4.23E-08	1.78E-07	7.83E-11	0.00E+00	2.21E-07	5.79E-09	2.44E-08	1.17E-11	0.00E+00	3.02E-08	3.56E-09	1.12E-08	2.71E-12	0.00E+00	1.48E-08
4976	420993.99	3734211.74	4.51E-08	1.90E-07	8.35E-11	0.00E+00	2.35E-07	6.18E-09	2.60E-08	1.24E-11	0.00E+00	3.22E-08	3.79E-09	1.20E-08	2.89E-12	0.00E+00	1.58E-08
4977	420997	3734220.13	4.65E-08	1.96E-07	8.61E-11	0.00E+00	2.43E-07	6.37E-09	2.68E-08	1.28E-11	0.00E+00	3.32E-08	3.91E-09	1.23E-08	2.98E-12	0.00E+00	1.63E-08
4978	421003.02	3734236.91	4.93E-08	2.08E-07	9.14E-11	0.00E+00	2.58E-07	6.76E-09	2.85E-08	1.36E-11	0.00E+00	3.52E-08	4.15E-09	1.31E-08	3.16E-12	0.00E+00	1.72E-08
4979	421021.08	3734287.24	5.84E-08	2.47E-07	1.08E-10	0.00E+00	3.05E-07	8.01E-09	3.37E-08	1.61E-11	0.00E+00	4.18E-08	4.91E-09	1.55E-08	3.74E-12	0.00E+00	2.04E-08
4980	420820.45	3734012.34	1.94E-08	8.21E-08	3.60E-11	0.00E+00	1.02E-07	2.66E-09	1.12E-08	5.36E-12	0.00E+00	1.39E-08	1.64E-09	5.16E-09	1.25E-12	0.00E+00	6.79E-09
4981	420828.25	3734017.06	1.99E-08	8.40E-08	3.69E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.49E-12	0.00E+00	1.42E-08	1.67E-09	5.28E-09	1.27E-12	0.00E+00	6.95E-09
4982	420836.04	3734021.78	2.04E-08	8.60E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.18E-08	5.62E-12	0.00E+00	1.46E-08	1.71E-09	5.40E-09	1.30E-12	0.00E+00	7.12E-09
4983	420843.84	3734026.51	2.08E-08	8.79E-08	3.86E-11	0.00E+00	1.09E-07	2.85E-09	1.20E-08	5.75E-12	0.00E+00	1.49E-08	1.75E-09	5.53E-09	1.33E-12	0.00E+00	7.28E-09
4984	420851.63	3734031.23	2.13E-08	8.99E-08	3.95E-11	0.00E+00	1.11E-07	2.92E-09	1.23E-08	5.88E-12	0.00E+00	1.52E-08	1.79E-09	5.65E-09	1.36E-12	0.00E+00	7.44E-09
4985	420859.43	3734035.95	2.18E-08	9.19E-08	4.03E-11	0.00E+00	1.14E-07	2.98E-09	1.26E-08	6.01E-12	0.00E+00	1.56E-08	1.83E-09	5.78E-09	1.39E-12	0.00E+00	7.61E-09
4986	420898.41	3734059.57	2.41E-08	1.02E-07	4.47E-11	0.00E+00	1.26E-07	3.30E-09	1.39E-08	6.65E-12	0.00E+00	1.72E-08	2.03E-09	6.40E-09	1.54E-12	0.00E+00	8.43E-09
4987	420906.2	3734064.3	2.46E-08	1.04E-07	4.55E-11	0.00E+00	1.28E-07	3.37E-09	1.42E-08	6.78E-12	0.00E+00	1.76E-08	2.07E-09	6.52E-09	1.57E-12	0.00E+00	8.59E-09
4988	420914	3734069.02	2.50E-08	1.06E-07	4.64E-11	0.00E+00	1.31E-07	3.43E-09	1.44E-08	6.90E-12	0.00E+00	1.79E-08	2.10E-09	6.64E-09	1.60E-12	0.00E+00	8.75E-09
4989	420921.8	3734073.74	2.55E-08	1.07E-07	4.72E-11	0.00E+00	1.33E-07	3.49E-09	1.47E-08	7.02E-12	0.00E+00	1.82E-08	2.14E-09	6.76E-09	1.63E-12	0.00E+00	8.90E-09
4990	420929.59	3734078.47	2.59E-08	1.09E-07	4.80E-11	0.00E+00	1.35E-07	3.55E-09	1.49E-08	7.14E-12	0.00E+00	1.85E-08	2.18E-09	6.87E-09	1.66E-12	0.00E+00	9.05E-09
4991	420937.39	3734083.19	2.63E-08	1.11E-07	4.87E-11	0.00E+00	1.37E-07	3.60E-09	1.52E-08	7.26E-12	0.00E+00	1.88E-08	2.21E-09	6.98E-09	1.68E-12	0.00E+00	9.19E-09
4992	420945.18	3734087.91	2.67E-08	1.13E-07	4.94E-11	0.00E+00	1.39E-07	3.66E-09	1.54E-08	7.36E-12	0.00E+00	1.91E-08	2.25E-09	7.08E-09	1.71E-12	0.00E+00	9.33E-09
4993	420952.98	3734092.64	2.71E-08	1.14E-07	5.01E-11	0.00E+00	1.41E-07	3.71E-09	1.56E-08	7.47E-12	0.00E+00	1.93E-08	2.28E-09	7.18E-09	1.73E-12	0.00E+00	9.46E-09
4994	420960.77	3734097.36	2.74E-08	1.16E-07	5.08E-11	0.00E+00	1.43E-07	3.76E-09	1.58E-08	7.56E-12	0.00E+00	1.96E-08	2.31E-09	7.27E-09	1.76E-12	0.00E+00	9.58E-09
4995	420968.57	3734102.08	2.77E-08	1.17E-07	5.14E-11	0.00E+00	1.45E-07	3.80E-09	1.60E-08	7.65E-12	0.00E+00	1.98E-08	2.33E-09	7.36E-09	1.78E-12	0.00E+00	9.69E-09
4996	420979.44	3734115.39	2.91E-08	1.23E-07	5.39E-11	0.00E+00	1.52E-07	3.99E-09	1.68E-08	8.02E-12	0.00E+00	2.08E-08	2.45E-09	7.72E-09	1.86E-12	0.00E+00	1.02E-08
4997	420982.52	3734123.97	3.01E-08	1.27E-07	5.58E-11	0.00E+00	1.57E-07	4.13E-09	1.74E-08	8.32E-12	0.00E+00	2.15E-08	2.54E-09	8.00E-09	1.93E-12	0.00E+00	1.05E-08
4998	420985.6	3734132.55	3.12E-08	1.32E-07	5.79E-11	0.00E+00	1.63E-07	4.28E-09	1.80E-08	8.62E-12	0.00E+00	2.23E-08	2.63E-09	8.29E-09	2.00E-12	0.00E+00	1.09E-08
4999	420988.68	3734141.13	3.24E-08	1.37E-07	5.99E-11	0.00E+00	1.69E-07	4.43E-09	1.87E-08	8.93E-12	0.00E+00	2.31E-08	2.72E-09	8.59E-09	2.07E-12	0.00E+00	1.13E-08
5000	420991.76	3734149.7	3.35E-08	1.41E-07	6.21E-11	0.00E+00	1.75E-07	4.59E-09	1.93E-08	9.24E-12	0.00E+00	2.39E-08	2.82E-09	8.89E-09	2.15E-12	0.00E+00	1.17E-08
5001	420994.84	3734158.28	3.47E-08	1.46E-07	6.42E-11	0.00E+00	1.81E-07	4.75E-09	2.00E-08	9.56E-12	0.00E+00	2.48E-08	2.92E-09	9.20E-09	2.22E-12	0.00E+00	1.21E-08
5002	420997.91	3734166.86	3.58E-08	1.51E-07	6.64E-11	0.00E+00	1.87E-07	4.91E-09	2.07E-08	9.89E-12	0.00E+00	2.56E-08	3.01E-09	9.51E-09	2.30E-12	0.00E+00	1.25E-08
5003	421000.99	3734175.44	3.70E-08	1.56E-07	6.86E-11	0.00E+00	1.93E-07	5.08E-09	2.14E-08	1.02E-11	0.00E+00	2.65E-08	3.11E-09	9.83E-09	2.37E-12	0.00E+00	1.29E-08
5004	421004.07	3734184.02	3.82E-08	1.61E-07	7.08E-11	0.00E+00	2.00E-07	5.24E-09	2.21E-08	1.05E-11	0.00E+00	2.73E-08	3.22E-09	1.01E-08	2.45E-12	0.00E+00	1.34E-08
5005	421007.15	3734192.6	3.94E-08	1.67E-07	7.31E-11	0.00E+00	2.06E-07	5.41E-09	2.28E-08	1.09E-11	0.00E+00	2.82E-08	3.32E-09	1.05E-08	2.53E-12	0.00E+00	1.38E-08
5006	421010.23	3734201.18	4.07E-08	1.72E-07	7.53E-11	0.00E+00	2.12E-07	5.57E-09	2.35E-08	1.12E-11	0.00E+00	2.91E-08	3.42E-09	1.08E-08	2.60E-12	0.00E+00	1.42E-08
5007	421013.31	3734209.76	4.19E-08	1.77E-07	7.76E-11	0.00E+00	2.19E-07	5.74E-09	2.42E-08	1.16E-11	0.00E+00	2.99E-08	3.52E-09	1.11E-08	2.68E-12	0.00E+00	1.46E-08
5008	421016.38	3734218.34	4.31E-08	1.82E-07	7.99E-11	0.00E+00	2.25E-07	5.91E-09	2.49E-08	1.19E-11	0.00E+00	3.08E-08	3.63E-09	1.14E-08	2.76E-12	0.00E+00	1.51E-08
5009	421019.46	3734226.92	4.43E-08	1.87E-07	8.21E-11	0.00E+00	2.32E-07	6.08E-09	2.56E-08	1.22E-11	0.00E+00	3.17E-08	3.73E-09	1.18E-08	2.84E-12	0.00E+00	1.55E-08
5010	421022.54	3734235.5	4.56E-08	1.92E-07	8.44E-11	0.00E+00	2.38E-07	6.24E-09	2.63E-08	1.26E-11	0.00E+00	3.26E-08	3.83E-09	1.21E-08	2.92E-12	0.00E+00	1.59E-08
5011	421025.62	3734244.08	4.68E-08	1.98E-07	8.67E-11	0.00E+00	2.44E-07	6.41E-09	2.70E-08	1.29E-11	0.00E+00	3.34E-08	3.94E-09	1.24E-08	3.00E-12	0.00E+00	1.64E-08
5012	420828.51	3733973.14	1.62E-08	6.85E-08	3.01E-11	0.00E+00	8.48E-08	2.22E-09	9.37E-09	4.48E-12	0.00E+00	1.16E-08	1.37E-09	4.31E-09	1.04E-12	0.00E+00	5.67E-09
5013	420844.06	3733982.56	1.69E-08	7.15E-08	3.14E-11	0.00E+00	8.85E-08	2.32E-09	9.78E-09	4.67E-12	0.00E+00	1.21E-08	1.42E-09	4.49E-09	1.08E-12	0.00E+00	5.92E-09
5014	420851.84	3733987.27	1.73E-08	7.30E-08	3.20E-11	0.00E+00	9.03E-08	2.37E-09	9.98E-09	4.77E-12	0.00E+00	1.24E-08	1.45E-09	4.59E-09	1.11E-12	0.00E+00	6.04E-09
5015	420859.61	3733991.98	1.76E-08	7.45E-08	3.27E-11	0.00E+00	9.22E-08	2.42E-09	1.02E-08	4.87E-12	0.00E+00	1.26E-08	1.48E-09	4.68E-09	1.13E-12	0.00E+00	6.17E-09
5016	420906.26	3734020.25	1.98E-08	8.36E-08	3.67E-11	0.00E+00	1.03E-07	2.71E-09	1.14E-08	5.47E-12	0.00E+00	1.42E-08	1.67E-09	5.26E-09	1.27E-12	0.00E+00	6.92E-09
5017	420914.04	3734024.96	2.02E-08	8.51E-08	3.74E-11	0.00E+00	1.05E-07	2.76E-09	1.16E-08	5.56E-12	0.00E+00	1.44E-08	1.70E-09	5.35E-09	1.29E-12	0.00E+00	7.05E-09
5018	420921.81	3734029.67	2.05E-08	8.66E-08	3.80E-11	0.00E+00	1.07E-07	2.81E-09	1.18E-08	5.66E-12	0.00E+00	1.47E-08	1.73E-09	5.45E-09	1.31E-12	0.00E+00	7.17E-09
5019	420929.59	3734034.38	2.09E-08	8.81E-08	3.87E-11	0.00E+00	1.09E-07	2.86E-09	1.21E-08	5.76E-12	0.00E+00	1.49E-08	1.76E-09	5.54E-09	1.34E-12	0.00E+00	7.30E-09
5020	420945.14	3734043.8	2.16E-08	9.10E-08	3.99E-11	0.00E+00	1.13E-07	2.96E-09	1.24E-08	5.95E-12	0.00E+00	1.54E-08	1.81E-09	5.72E-09	1.38E-12	0.00E+00	7.54E-09
5021	420952.91	3734048.52	2.19E-08	9.24E-08	4.06E-11	0.00E+00	1.14E-07	3.00E-09	1.26E-08	6.04E-12	0.00E+00	1.56E-08	1.84E-09	5.81E-09	1.40E-12	0.00E+00	7.65E-09
5022	420960.69	3734053.23	2.22E-08	9.38E-08	4.11E-11	0.00E+00	1.16E-07	3.04E-09	1.28E-08	6.13E-12	0.00E+00	1.59E-08	1.87E-09	5.89E-09	1.42E-12	0.00E+00	7.76E-09
5023	420968.46	3734057.94	2.25E-08	9.51E-08	4.17E-11	0.00E+00	1.18E-07	3.09E-09	1.30E-08	6.21E-12	0.00E+00	1.61E-08	1.89E-09	5.98E-09	1.44E-12	0.00E+00	7.87E-09
5024	420976.24	3734062.65	2.28E-08	9.63E-08	4.23E-11	0.00E+00	1.19E-07	3.13E-09	1.32E-08	6.30E-12	0.00E+00	1.63E-08	1.92E-09	6.05E-09	1.46E-12	0.00E+00	7.98E-09
5025	420991.79	3734072.07	2.34E-08	9.86E-08	4.33E-11	0.00E+00	1.22E-07	3.20E-09	1.35E-08	6.44E-12	0.00E+00	1.67E-08	1.96E-09	6.20E-09	1.50E-12	0.00E+00	8.16E-09
5026	420999.56	3734076.78	2.36E-08	9.96E-08	4.37E-11	0.00E+00	1.23E-07	3.23E-09	1.36E-08	6.51E-12	0.00E+00	1.69E-08	1.98E-09	6.26E-09	1.51E-12	0.00E+00	8.25E-09
5027	421010.41	3734090.05	2.46E-08	1.04E-07	4.55E-11	0.00E+00	1.28E-07	3.37E-09	1.42E-08	6.78E-12	0.00E+00	1.76E-08	2.07E-09	6.52E-09	1.57E-12	0.00E+00	8.59E-09
5028	421013.48	3734098.61	2.54E-08	1.07E-07	4.70E-11	0.00E+00	1.32E-07	3.48E-09	1.46E-08	7.00E-12	0.00E+00	1.81E-08	2.13E-09	6.73E-09	1.62E-12	0.00E+00	8.86E-09
5029	421016.55	3734107.16	2.62E-08	1.10E-07	4.85E-11	0.00E+00	1.37E-07	3.59E-09	1.51E-08	7.22E-12	0.00E+00	1.87E-08	2.20E-09	6.94E-09	1.68E-12	0.00E+00	9.15E-09
5030	421019.62	3734115.72	2.70E-08	1.14E-07	5.00E-11	0.00E+00	1.41E-07	3.70E-09	1.56E-08	7.45E-12	0.00E+00	1.93E-08	2.27E-09	7.16E-09	1.73E-12	0.00E+00	9.44E-09
5031	421022.69	3734124.28	2.78E-08	1.18E-07	5.16E-11	0.00E+00	1.45E-07	3.82E-09	1.61E-08	7.68E-12	0.00E+00	1.99E-08	2.34E-09	7.39E-09	1.78E-12	0.00E+00	9.73E-09
5032	421025.76	3734132.83	2.87E-08	1.21E-07	5.31E-11	0.00E+00	1.50E-07	3.93E-09	1.66E-08	7.92E-12	0.00E+00	2.05E-08	2.41E-09	7.61E-09	1.84E-12	0.00E+00	1.00E-08
5033	421028.83	3734141.39	2.95E-08	1.25E-07	5.47E-11	0.00E+00	1.54E-07	4.05E-09	1.71E-08	8.15E-12	0.00E+00	2.11E-08	2.49E-09	7.84E-09	1.89E-12	0.00E+00	1.03E-08
5034	421031.9	3734149.95	3.04E-08	1.28E-07	5.63E-11	0.00E+00	1.59E-07	4.17E-09	1.76E-08	8.39E-12	0.00E+00	2.17E-08	2.56E-09	8.07E-09	1.95E-12	0.00E+00	1.06E-08
5035	421034.97	3734158.5	3.13E-08	1.32E-07	5.80E-11	0.00E+00	1.63E-07	4.29E-09	1.81E-08	8.63E-12	0.00E+00	2.24E-08	2.63E-09	8.30E-09	2.00E-12	0.00E+00	1.09E-08
5036	421038.04	3734167.06	3.22E-08	1.36E-07	5.96E-11	0.00E+00	1.68E-07	4.41E-09	1.86E-08	8.87E-12	0.00E+00	2.30E-08	2.71E-09	8.53E-09	2.06E-12	0.00E+00	1.12E-08
5037	421041.11	3734175.62	3.30E-08	1.39E-07	6.12E-11	0.00E+00	1.73E-07	4.53E-09	1.91E-08	9.12E-12	0.00E+00	2.36E-08	2.78E-09	8.77E-09	2.12E-12	0.00E+00	1.15E-08
5038	421044.18	3734184.17	3.39E-08	1.43E-07	6.28E-11	0.00E+00	1.77E-07	4.65E-09	1.96E-08	9.36E-12	0.00E+00	2.42E-08	2.85E-09	9.00E-09	2.17E-12	0.00E+00	1.19E-08
5039	421047.25	3734192.73	3.48E-08	1.47E-07	6.45E-11	0.00E+00	1.82E-07	4.77E-09	2.01E-08	9.60E-12	0.00E+00	2.49E-08	2.93E-09	9.23E-09	2.23E-12	0.00E+00	1.22E-08
5040	421050.32	3734201.29	3.57E-08	1.51E-07	6.61E-11	0.00E+00	1.86E-07	4.89E-09	2.06E-08	9.84E-12	0.00E+00	2.55E-08	3.00E-09	9.46E-09	2.28E-12	0.00E+00	1.25E-08
5041	421053.39	3734209.84	3.65E-08	1.54E-07	6.77E-11	0.00E+00	1.91E-07	5.01E-09	2.11E-08	1.01E-11	0.00E+00	2.61E-08	3.07E-09	9.70E-09	2.34E-12	0.00E+00	1.28E-08
5042	421056.46	3734218.4	3.74E-08	1.58E-07	6.93E-11	0.00E+00	1.95E-07	5.13E-09	2.16E-08	1.03E-11	0.00E+00	2.67E-08	3.15E-09	9.93E-09	2.40E-12	0.00E+00	1.31E-08
5043	421059.53	3734226.96	3.83E-08	1.62E-07	7.10E-11	0.00E+00	2.00E-07	5.25E-09	2.21E-08	1.06E-11	0.00E+00	2.74E-08	3.22E-09	1.02E-08	2.45E-12	0.00E+00	1.34E-08
5044	421062.6	3734235.51	3.92E-08	1.65E-07	7.26E-11	0.00E+00	2.05E-07	5.37E-09	2.26E-08	1.08E-11	0.00E+00	2.80E-08	3.30E-09	1.04E-08	2.51E-12	0.00E+00	1.37E-08
5045	421065.67	3734244.07	4.01E-08	1.69E-07	7.43E-11	0.00E+00	2.09E-07	5.50E-09	2.32E-08	1.11E-11	0.00E+00	2.87E-08	3.37E-09	1.06E-08	2.57E-12	0.00E+00	1.40E-08
5046	420794.88	3733959.98	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.94E-08	2.08E-09	8.78E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.03E-09	9.74E-13	0.00E+00	5.31E-09
5047	420921.93	3733985.66	1.68E-08	7.11E-08	3.12E-11	0.00E+00	8.79E-08	2.31E-09	9.72E-09	4.64E-12	0.00E+00	1.20E-08	1.42E-09	4.47E-09	1.08E-12	0.00E+00	5.88E-09
5048	420937.44	3733995.06	1.74E-08	7.35E-08	3.22E-11	0.00E+00	9.09E-08	2.38E-09	1.00E-08	4.80E-12	0.00E+00	1.24E-08	1.46E-09	4.62E-09	1.11E-12	0.00E+00	6.08E-09
5049	420945.2	3733999.76	1.77E-08	7.46E-08	3.28E-11	0.00E+00	9.24E-08	2.42E-09	1.02E-08	4.88E-12	0.00E+00	1.26E-08	1.49E-09	4.69E-09	1.13E-12	0.00E+00	6.18E-09
5050	420952.96	3734004.47	1.80E-08	7.58E-08	3.33E-11	0.00E+00	9.38E-08	2.46E-09	1.04E-08	4.96E-12	0.00E+00	1.28E-08	1.51E-09	4.77E-09	1.15E-12	0.00E+00	6.28E-09
5051	420960.72	3734009.17	1.82E-08	7.70E-08	3.38E-11	0.00E+00	9.53E-08	2.50E-09	1.05E-08	5.03E-12	0.00E+00	1.30E-08	1.53E-09	4.84E-09	1.17E-12	0.00E+00	6.37E-09
5052	420976.24	3734018.57	1.88E-08	7.93E-08	3.48E-11	0.00E+00	9.81E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
5053	420984	3734023.27	1.90E-08	8.03E-08	3.53E-11	0.00E+00	9.94E-08	2.61E-09	1.10E-08	5.25E-12	0.00E+00	1.36E-08	1.60E-09	5.05E-09	1.22E-12	0.00E+00	6.65E-09
5054	420991.75	3734027.97	1.93E-08	8.14E-08	3.57E-11	0.00E+00	1.01E-07	2.64E-09	1.11E-08	5.32E-12	0.00E+00	1.38E-08	1.62E-09	5.12E-09	1.23E-12	0.00E+00	6.74E-09
5055	420999.51	3734032.67	1.95E-08	8.24E-08	3.61E-11	0.00E+00	1.02E-07	2.67E-09	1.13E-08	5.38E-12	0.00E+00	1.39E-08	1.64E-09	5.18E-09	1.25E-12	0.00E+00	6.82E-09
5056	421015.03	3734042.07	1.99E-08	8.41E-08	3.69E-11	0.00E+00	1.04E-07	2.73E-09	1.15E-08	5.50E-12	0.00E+00	1.42E-08	1.68E-09	5.29E-09	1.28E-12	0.00E+00	6.96E-09

5057	421022.79	3734046.77	2.01E-08	8.49E-08	3.73E-11	0.00E+00	1.05E-07	2.76E-09	1.16E-08	5.55E-12	0.00E+00	1.44E-08	1.69E-09	5.34E-09	1.29E-12	0.00E+00	7.03E-09
5058	421030.55	3734051.48	2.03E-08	8.56E-08	3.76E-11	0.00E+00	1.06E-07	2.78E-09	1.17E-08	5.60E-12	0.00E+00	1.45E-08	1.71E-09	5.38E-09	1.30E-12	0.00E+00	7.09E-09
5059	421041.37	3734064.72	2.10E-08	8.88E-08	3.90E-11	0.00E+00	1.10E-07	2.88E-09	1.21E-08	5.80E-12	0.00E+00	1.50E-08	1.77E-09	5.58E-09	1.35E-12	0.00E+00	7.35E-09
5060	421044.43	3734073.25	2.16E-08	9.14E-08	4.01E-11	0.00E+00	1.13E-07	2.97E-09	1.25E-08	5.97E-12	0.00E+00	1.55E-08	1.82E-09	5.74E-09	1.39E-12	0.00E+00	7.57E-09
5061	421047.5	3734081.79	2.23E-08	9.40E-08	4.12E-11	0.00E+00	1.16E-07	3.05E-09	1.29E-08	6.14E-12	0.00E+00	1.59E-08	1.87E-09	5.91E-09	1.43E-12	0.00E+00	7.78E-09
5062	421050.56	3734090.33	2.29E-08	9.66E-08	4.24E-11	0.00E+00	1.20E-07	3.14E-09	1.32E-08	6.31E-12	0.00E+00	1.64E-08	1.93E-09	6.07E-09	1.47E-12	0.00E+00	8.00E-09
5063	421053.62	3734098.87	2.35E-08	9.93E-08	4.36E-11	0.00E+00	1.23E-07	3.22E-09	1.36E-08	6.49E-12	0.00E+00	1.68E-08	1.98E-09	6.24E-09	1.51E-12	0.00E+00	8.22E-09
5064	421056.69	3734107.41	2.42E-08	1.02E-07	4.47E-11	0.00E+00	1.26E-07	3.31E-09	1.39E-08	6.66E-12	0.00E+00	1.73E-08	2.03E-09	6.41E-09	1.55E-12	0.00E+00	8.44E-09
5065	421059.75	3734115.95	2.48E-08	1.05E-07	4.59E-11	0.00E+00	1.30E-07	3.40E-09	1.43E-08	6.84E-12	0.00E+00	1.77E-08	2.09E-09	6.58E-09	1.59E-12	0.00E+00	8.67E-09
5066	421062.82	3734124.49	2.54E-08	1.07E-07	4.71E-11	0.00E+00	1.33E-07	3.49E-09	1.47E-08	7.02E-12	0.00E+00	1.82E-08	2.14E-09	6.75E-09	1.63E-12	0.00E+00	8.89E-09
5067	421065.88	3734133.03	2.61E-08	1.10E-07	4.83E-11	0.00E+00	1.36E-07	3.57E-09	1.51E-08	7.19E-12	0.00E+00	1.86E-08	2.19E-09	6.92E-09	1.67E-12	0.00E+00	9.11E-09
5068	421068.94	3734141.56	2.67E-08	1.13E-07	4.95E-11	0.00E+00	1.40E-07	3.66E-09	1.54E-08	7.37E-12	0.00E+00	1.91E-08	2.25E-09	7.09E-09	1.71E-12	0.00E+00	9.34E-09
5069	421072.01	3734150.1	2.74E-08	1.16E-07	5.07E-11	0.00E+00	1.43E-07	3.75E-09	1.58E-08	7.55E-12	0.00E+00	1.96E-08	2.30E-09	7.26E-09	1.75E-12	0.00E+00	9.56E-09
5070	421075.07	3734158.64	2.80E-08	1.18E-07	5.19E-11	0.00E+00	1.46E-07	3.84E-09	1.62E-08	7.73E-12	0.00E+00	2.00E-08	2.36E-09	7.43E-09	1.79E-12	0.00E+00	9.79E-09
5071	421078.13	3734167.18	2.86E-08	1.21E-07	5.31E-11	0.00E+00	1.50E-07	3.93E-09	1.65E-08	7.90E-12	0.00E+00	2.05E-08	2.41E-09	7.60E-09	1.84E-12	0.00E+00	1.00E-08
5072	421081.2	3734175.72	2.93E-08	1.24E-07	5.43E-11	0.00E+00	1.53E-07	4.02E-09	1.69E-08	8.08E-12	0.00E+00	2.09E-08	2.46E-09	7.77E-09	1.88E-12	0.00E+00	1.02E-08
5073	421084.26	3734184.26	2.99E-08	1.26E-07	5.55E-11	0.00E+00	1.56E-07	4.10E-09	1.73E-08	8.26E-12	0.00E+00	2.14E-08	2.52E-09	7.95E-09	1.92E-12	0.00E+00	1.05E-08
5074	421087.32	3734192.8	3.06E-08	1.29E-07	5.67E-11	0.00E+00	1.60E-07	4.19E-09	1.77E-08	8.44E-12	0.00E+00	2.19E-08	2.57E-09	8.12E-09	1.96E-12	0.00E+00	1.07E-08
5075	420802.99	3733920.81	1.30E-08	5.48E-08	2.40E-11	0.00E+00	6.78E-08	1.78E-09	7.49E-09	3.58E-12	0.00E+00	9.28E-09	1.09E-09	3.44E-09	8.31E-13	0.00E+00	4.54E-09
5076	420852.41	3733899.46	1.21E-08	5.10E-08	2.24E-11	0.00E+00	6.32E-08	1.66E-09	6.98E-09	3.34E-12	0.00E+00	8.64E-09	1.02E-09	3.21E-09	7.74E-13	0.00E+00	4.23E-09
5077	420860.15	3733904.15	1.23E-08	5.20E-08	2.28E-11	0.00E+00	6.43E-08	1.69E-09	7.11E-09	3.40E-12	0.00E+00	8.80E-09	1.04E-09	3.27E-09	7.88E-13	0.00E+00	4.30E-09
5078	420891.13	3733922.92	1.32E-08	5.56E-08	2.44E-11	0.00E+00	6.88E-08	1.81E-09	7.60E-09	3.63E-12	0.00E+00	9.41E-09	1.11E-09	3.49E-09	8.44E-13	0.00E+00	4.60E-09
5079	420945.35	3733955.77	1.47E-08	6.22E-08	2.73E-11	0.00E+00	7.70E-08	2.02E-09	8.51E-09	4.07E-12	0.00E+00	1.05E-08	1.24E-09	3.91E-09	9.44E-13	0.00E+00	5.15E-09
5080	420953.1	3733960.47	1.50E-08	6.32E-08	2.77E-11	0.00E+00	7.81E-08	2.05E-09	8.64E-09	4.13E-12	0.00E+00	1.07E-08	1.26E-09	3.97E-09	9.58E-13	0.00E+00	5.23E-09
5081	420960.84	3733965.16	1.52E-08	6.41E-08	2.81E-11	0.00E+00	7.93E-08	2.08E-09	8.77E-09	4.19E-12	0.00E+00	1.09E-08	1.28E-09	4.03E-09	9.73E-13	0.00E+00	5.31E-09
5082	420976.33	3733974.55	1.56E-08	6.60E-08	2.90E-11	0.00E+00	8.17E-08	2.14E-09	9.03E-09	4.32E-12	0.00E+00	1.12E-08	1.32E-09	4.15E-09	1.00E-12	0.00E+00	5.47E-09
5083	420984.08	3733979.24	1.59E-08	6.70E-08	2.94E-11	0.00E+00	8.29E-08	2.17E-09	9.16E-09	4.38E-12	0.00E+00	1.13E-08	1.33E-09	4.21E-09	1.02E-12	0.00E+00	5.55E-09
5084	420991.82	3733983.93	1.61E-08	6.79E-08	2.98E-11	0.00E+00	8.40E-08	2.20E-09	9.29E-09	4.44E-12	0.00E+00	1.15E-08	1.35E-09	4.27E-09	1.03E-12	0.00E+00	5.62E-09
5085	421007.31	3733993.32	1.65E-08	6.97E-08	3.06E-11	0.00E+00	8.62E-08	2.26E-09	9.53E-09	4.55E-12	0.00E+00	1.18E-08	1.39E-09	4.38E-09	1.06E-12	0.00E+00	5.77E-09
5086	421015.06	3733998.01	1.67E-08	7.05E-08	3.09E-11	0.00E+00	8.72E-08	2.29E-09	9.64E-09	4.61E-12	0.00E+00	1.19E-08	1.40E-09	4.43E-09	1.07E-12	0.00E+00	5.84E-09
5087	421022.8	3734002.7	1.69E-08	7.13E-08	3.13E-11	0.00E+00	8.82E-08	2.31E-09	9.75E-09	4.66E-12	0.00E+00	1.21E-08	1.42E-09	4.48E-09	1.08E-12	0.00E+00	5.90E-09
5088	421030.55	3734007.4	1.71E-08	7.20E-08	3.16E-11	0.00E+00	8.91E-08	2.34E-09	9.84E-09	4.71E-12	0.00E+00	1.22E-08	1.43E-09	4.52E-09	1.09E-12	0.00E+00	5.96E-09
5089	421046.04	3734016.78	1.74E-08	7.33E-08	3.22E-11	0.00E+00	9.07E-08	2.38E-09	1.00E-08	4.79E-12	0.00E+00	1.24E-08	1.46E-09	4.61E-09	1.11E-12	0.00E+00	6.07E-09
5090	421053.79	3734021.48	1.75E-08	7.39E-08	3.24E-11	0.00E+00	9.14E-08	2.40E-09	1.01E-08	4.83E-12	0.00E+00	1.25E-08	1.47E-09	4.64E-09	1.12E-12	0.00E+00	6.12E-09
5091	421061.53	3734026.17	1.76E-08	7.44E-08	3.26E-11	0.00E+00	9.21E-08	2.42E-09	1.02E-08	4.86E-12	0.00E+00	1.26E-08	1.48E-09	4.68E-09	1.13E-12	0.00E+00	6.16E-09
5092	421072.33	3734039.39	1.82E-08	7.69E-08	3.37E-11	0.00E+00	9.51E-08	2.50E-09	1.05E-08	5.02E-12	0.00E+00	1.30E-08	1.53E-09	4.83E-09	1.17E-12	0.00E+00	6.36E-09
5093	421075.39	3734047.91	1.87E-08	7.89E-08	3.46E-11	0.00E+00	9.76E-08	2.56E-09	1.08E-08	5.16E-12	0.00E+00	1.34E-08	1.57E-09	4.96E-09	1.20E-12	0.00E+00	6.53E-09
5094	421078.45	3734056.43	1.92E-08	8.09E-08	3.55E-11	0.00E+00	1.00E-07	2.63E-09	1.11E-08	5.29E-12	0.00E+00	1.37E-08	1.61E-09	5.09E-09	1.23E-12	0.00E+00	6.70E-09
5095	421081.51	3734064.96	1.97E-08	8.30E-08	3.64E-11	0.00E+00	1.03E-07	2.69E-09	1.13E-08	5.42E-12	0.00E+00	1.40E-08	1.65E-09	5.21E-09	1.26E-12	0.00E+00	6.87E-09
5096	421084.57	3734073.48	2.01E-08	8.50E-08	3.73E-11	0.00E+00	1.05E-07	2.76E-09	1.16E-08	5.56E-12	0.00E+00	1.44E-08	1.69E-09	5.34E-09	1.29E-12	0.00E+00	7.04E-09
5097	421087.63	3734082.01	2.06E-08	8.71E-08	3.82E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.69E-12	0.00E+00	1.47E-08	1.74E-09	5.47E-09	1.32E-12	0.00E+00	7.21E-09
5098	421090.69	3734090.53	2.11E-08	8.92E-08	3.91E-11	0.00E+00	1.10E-07	2.90E-09	1.22E-08	5.83E-12	0.00E+00	1.51E-08	1.78E-09	5.61E-09	1.35E-12	0.00E+00	7.38E-09
5099	421093.74	3734099.06	2.16E-08	9.12E-08	4.00E-11	0.00E+00	1.13E-07	2.96E-09	1.25E-08	5.96E-12	0.00E+00	1.54E-08	1.82E-09	5.73E-09	1.38E-12	0.00E+00	7.55E-09
5100	421096.8	3734107.58	2.21E-08	9.33E-08	4.09E-11	0.00E+00	1.15E-07	3.03E-09	1.28E-08	6.10E-12	0.00E+00	1.58E-08	1.86E-09	5.86E-09	1.42E-12	0.00E+00	7.72E-09
5101	421099.86	3734116.1	2.26E-08	9.53E-08	4.18E-11	0.00E+00	1.18E-07	3.10E-09	1.30E-08	6.23E-12	0.00E+00	1.61E-08	1.90E-09	5.99E-09	1.45E-12	0.00E+00	7.89E-09
5102	421102.92	3734124.63	2.31E-08	9.74E-08	4.27E-11	0.00E+00	1.20E-07	3.16E-09	1.33E-08	6.36E-12	0.00E+00	1.65E-08	1.94E-09	6.12E-09	1.48E-12	0.00E+00	8.06E-09
5103	421105.98	3734133.15	2.35E-08	9.94E-08	4.36E-11	0.00E+00	1.23E-07	3.23E-09	1.36E-08	6.49E-12	0.00E+00	1.68E-08	1.98E-09	6.25E-09	1.51E-12	0.00E+00	8.23E-09
5104	421109.04	3734141.68	2.40E-08	1.01E-07	4.45E-11	0.00E+00	1.25E-07	3.29E-09	1.39E-08	6.63E-12	0.00E+00	1.72E-08	2.02E-09	6.37E-09	1.54E-12	0.00E+00	8.40E-09
5105	421112.09	3734150.2	2.45E-08	1.03E-07	4.54E-11	0.00E+00	1.28E-07	3.36E-09	1.41E-08	6.76E-12	0.00E+00	1.75E-08	2.06E-09	6.50E-09	1.57E-12	0.00E+00	8.57E-09
5106	421161.03	3734286.59	3.37E-08	1.42E-07	6.25E-11	0.00E+00	1.76E-07	4.62E-09	1.95E-08	9.30E-12	0.00E+00	2.41E-08	2.84E-09	8.95E-09	2.16E-12	0.00E+00	1.18E-08
5107	420811.09	3733881.64	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.87E-08	1.54E-09	6.49E-09	3.10E-12	0.00E+00	8.03E-09	9.45E-10	2.98E-09	7.20E-13	0.00E+00	3.93E-09
5108	420860.48	3733860.27	1.05E-08	4.45E-08	1.95E-11	0.00E+00	5.50E-08	1.44E-09	6.08E-09	2.91E-12	0.00E+00	7.53E-09	8.86E-10	2.79E-09	6.75E-13	0.00E+00	3.68E-09
5109	420868.21	3733864.95	1.07E-08	4.52E-08	1.98E-11	0.00E+00	5.59E-08	1.47E-09	6.18E-09	2.95E-12	0.00E+00	7.65E-09	9.00E-10	2.84E-09	6.86E-13	0.00E+00	3.74E-09
5110	420875.94	3733869.64	1.09E-08	4.59E-08	2.02E-11	0.00E+00	5.68E-08	1.49E-09	6.28E-09	3.00E-12	0.00E+00	7.77E-09	9.15E-10	2.89E-09	6.97E-13	0.00E+00	3.80E-09
5111	420899.15	3733883.7	1.14E-08	4.81E-08	2.11E-11	0.00E+00	5.95E-08	1.56E-09	6.58E-09	3.14E-12	0.00E+00	8.14E-09	9.59E-10	3.02E-09	7.30E-13	0.00E+00	3.98E-09
5112	420906.88	3733888.39	1.16E-08	4.89E-08	2.14E-11	0.00E+00	6.05E-08	1.59E-09	6.68E-09	3.19E-12	0.00E+00	8.27E-09	9.74E-10	3.07E-09	7.41E-13	0.00E+00	4.05E-09
5113	420937.82	3733907.13	1.23E-08	5.19E-08	2.28E-11	0.00E+00	6.43E-08	1.69E-09	7.10E-09	3.39E-12	0.00E+00	8.79E-09	1.03E-09	3.26E-09	7.88E-13	0.00E+00	4.30E-09
5114	420953.29	3733916.5	1.27E-08	5.35E-08	2.35E-11	0.00E+00	6.62E-08	1.74E-09	7.32E-09	3.50E-12	0.00E+00	9.06E-09	1.07E-09	3.36E-09	8.12E-13	0.00E+00	4.43E-09
5115	420961.02	3733921.19	1.29E-08	5.43E-08	2.38E-11	0.00E+00	6.72E-08	1.76E-09	7.42E-09	3.55E-12	0.00E+00	9.19E-09	1.08E-09	3.41E-09	8.24E-13	0.00E+00	4.49E-09
5116	421015.17	3733954	1.41E-08	5.96E-08	2.62E-11	0.00E+00	7.38E-08	1.94E-09	8.15E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.05E-13	0.00E+00	4.94E-09
5117	421022.9	3733958.68	1.43E-08	6.03E-08	2.65E-11	0.00E+00	7.47E-08	1.96E-09	8.25E-09	3.94E-12	0.00E+00	1.02E-08	1.20E-09	3.79E-09	9.16E-13	0.00E+00	5.00E-09
5118	421038.37	3733968.06	1.46E-08	6.17E-08	2.71E-11	0.00E+00	7.63E-08	2.00E-09	8.44E-09	4.03E-12	0.00E+00	1.04E-08	1.23E-09	3.88E-09	9.36E-13	0.00E+00	5.11E-09
5119	421046.1	3733972.74	1.48E-08	6.23E-08	2.74E-11	0.00E+00	7.71E-08	2.02E-09	8.52E-09	4.07E-12	0.00E+00	1.06E-08	1.24E-09	3.92E-09	9.46E-13	0.00E+00	5.16E-09
5120	421053.84	3733977.43	1.49E-08	6.29E-08	2.76E-11	0.00E+00	7.79E-08	2.04E-09	8.60E-09	4.11E-12	0.00E+00	1.07E-08	1.25E-09	3.95E-09	9.55E-13	0.00E+00	5.21E-09
5121	421069.31	3733986.8	1.52E-08	6.40E-08	2.81E-11	0.00E+00	7.92E-08	2.08E-09	8.76E-09	4.19E-12	0.00E+00	1.08E-08	1.28E-09	4.03E-09	9.72E-13	0.00E+00	5.30E-09
5122	421077.04	3733991.49	1.53E-08	6.45E-08	2.83E-11	0.00E+00	7.99E-08	2.10E-09	8.83E-09	4.22E-12	0.00E+00	1.09E-08	1.29E-09	4.06E-09	9.79E-13	0.00E+00	5.34E-09
5123	421084.78	3733996.17	1.54E-08	6.50E-08	2.85E-11	0.00E+00	8.04E-08	2.11E-09	8.89E-09	4.25E-12	0.00E+00	1.10E-08	1.29E-09	4.08E-09	9.86E-13	0.00E+00	5.38E-09
5124	421103.3	3734014.06	1.60E-08	6.74E-08	2.96E-11	0.00E+00	8.33E-08	2.19E-09	9.21E-09	4.40E-12	0.00E+00	1.14E-08	1.34E-09	4.23E-09	1.02E-12	0.00E+00	5.58E-09
5125	421106.35	3734022.57	1.63E-08	6.89E-08	3.02E-11	0.00E+00	8.53E-08	2.24E-09	9.43E-09	4.51E-12	0.00E+00	1.17E-08	1.37E-09	4.33E-09	1.05E-12	0.00E+00	5.71E-09
5126	421109.41	3734031.08	1.67E-08	7.05E-08	3.10E-11	0.00E+00	8.73E-08	2.29E-09	9.65E-09	4.61E-12	0.00E+00	1.19E-08	1.41E-09	4.43E-09	1.07E-12	0.00E+00	5.84E-09
5127	421112.46	3734039.6	1.71E-08	7.21E-08	3.17E-11	0.00E+00	8.93E-08	2.34E-09	9.86E-09	4.71E-12	0.00E+00	1.22E-08	1.44E-09	4.53E-09	1.09E-12	0.00E+00	5.97E-09
5128	421115.52	3734048.11	1.75E-08	7.38E-08	3.24E-11	0.00E+00	9.13E-08	2.39E-09	1.01E-08	4.82E-12	0.00E+00	1.25E-08	1.47E-09	4.64E-09	1.12E-12	0.00E+00	6.11E-09
5129	421118.57	3734056.62	1.79E-08	7.54E-08	3.31E-11	0.00E+00	9.33E-08	2.45E-09	1.03E-08	4.93E-12	0.00E+00	1.28E-08	1.50E-09	4.74E-09	1.14E-12	0.00E+00	6.24E-09
5130	421121.63	3734065.13	1.82E-08	7.70E-08	3.38E-11	0.00E+00	9.53E-08	2.50E-09	1.05E-08	5.03E-12	0.00E+00	1.30E-08	1.53E-09	4.84E-09	1.17E-12	0.00E+00	6.38E-09
5131	421124.68	3734073.64	1.86E-08	7.86E-08	3.45E-11	0.00E+00	9.73E-08	2.55E-09	1.08E-08	5.14E-12	0.00E+00	1.33E-08	1.57E-09	4.94E-09	1.19E-12	0.00E+00	6.51E-09
5132	421127.73	3734082.16	1.90E-08	8.02E-08	3.52E-11	0.00E+00	9.93E-08	2.60E-09	1.10E-08	5.24E-12	0.00E+00	1.36E-08	1.60E-09	5.04E-09	1.22E-12	0.00E+00	6.64E-09
5133	421130.79	3734090.67	1.94E-08	8.18E-08	3.59E-11	0.00E+00	1.01E-07	2.66E-09	1.12E-08	5.35E-12	0.00E+00	1.39E-08	1.63E-09	5.14E-09	1.24E-12	0.00E+00	6.77E-09
5134	421133.84	3734099.18	1.98E-08	8.34E-08	3.66E-11	0.00E+00	1.03E-07	2.71E-09	1.14E-08	5.45E-12	0.00E+00	1.41E-08	1.66E-09	5.24E-09	1.27E-12	0.00E+00	6.91E-09
5135	421136.9	3734107.69	2.01E-08	8.50E-08	3.73E-11	0.00E+00	1.05E-07	2.76E-09	1.16E-08	5.55E-12	0.00E+00	1.44E-08	1.69E-09	5.34E-09	1.29E-12	0.00E+00	7.04E-09
5136	421197.98	3734277.94	2.87E-08	1.21E-07	5.31E-11	0.00E+00	1.50E-07	3.93E-09	1.66E-08	7.92E-12	0.00E+00	2.05E-08	2.41E-09	7.61E-09	1.84E-12	0.00E+00	1.00E-08
5137	421201.03	3734286.45	2.94E-08	1.24E-07	5.44E-11	0.00E+00	1.54E-07	4.03E-09	1.70E-08	8.11E-12	0.00E+00	2.10E-08	2.47E-09	7.80E-09	1.88E-12	0.00E+00	1.03E-08
5138	420828.23	3733844.34	9.93E-09	4.19E-08	1.84E-11	0.00E+00	5.19E-08	1.36E-09	5.73E-09	2.74E-12	0.00E+00	7.10E-09	8.35E-10	2.63E-09	6.36E-13	0.00E+00	3.47E-09
5139	420819.19	3733842.47	9.84E-09	4.16E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.72E-12	0.00E+00	7.04E-09	8.28E-10	2.61E-09	6.31E-13	0.00E+00	3.44E-09
5140	420876.28	3733825.76	9.41E-09	3.97E-08	1.74E-11	0.00E+00	4.92E-08	1.29E-09	5.44E-09	2.60E-12	0.00E+00	6.73E-09	7.92E-10	2.50E-09	6.03E-13	0.00E+00	3.29E-09
5141	420907.18	3733844.48	9.99E-09	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.77E-09	2.76E-12	0.00E+00	7.14E-09	8.40E-10	2.65E-09	6.40E-13	0.00E+00	3.49E-09
5142	420914.9	3733849.16	1.01E-08	4.28E-08	1.88E-11	0.00E+00	5.29E-08	1.39E-09	5.85E-09	2.80E-12	0.00E+00	7.24E-09	8.53E-10	2.69E-09	6.49E-13	0.00E+00	3.54E-09
5143	420930.35	3733858.53	1.04E-08	4.40E-08	1.93E-11	0.00E+00	5.45E-08	1.43E-09	6.02E-09	2.88E-12	0.00E+00	7.45E-09	8.77E-10	2.77E-09	6.68E-13	0.00E+00	3.65E-09
5144	420961.26	3733877.25	1.10E-08	4.66E-08	2.04E-11	0.00E+00	5.76E-08	1.51E-09	6.37E-09	3.04E-12	0.00E+00	7.88E-09	9.28E-10	2.93E-09	7.07E-13	0.00E+00	3.86E-09
5145	420968.98	3733881.93	1.12E-08	4.72E-08	2.07E-11	0.00E+00	5.84E-08	1.53E-09	6.46E-09	3.09E-12	0.00E+00	7.99E-09	9.41E-10	2.97E-09	7.16E-13	0.00E+00	3.91E-09
5146	420984.43	3733891.29	1.15E-08	4.85E-08	2.13E-11	0.00E+00	6.00E-08	1.57E-09	6.63E-09	3.17E-12	0.00E+00	8.21E-09	9.67E-10	3.05E-09	7.36E-13	0.00E+00	4.02E-09
5147	420992.16	3733895.97	1.16E-08	4.91E-08	2.16E-11	0.00E+00	6.08E-08	1.60E-09	6.72E-09	3.21E-12	0.00E+00	8.32E-09	9.79E-10	3.09E-09	7.46E-13	0.00E+00	4.07E-09
5148	420999.88	3733900.66	1.18E-08	4.98E-08	2.18E-11	0.00E+00	6.16E-08	1.62E-09	6.81E-09	3.25E-12	0.00E+00	8.43E-09	9.92E-10	3.13E-09	7.55E-13	0.00E+00	4.12E-09

5149	421015.33	3733910.02	1.21E-08	5.10E-08	2.24E-11	0.00E+00	6.32E-08	1.66E-09	6.98E-09	3.34E-12	0.00E+00	8.64E-09	1.02E-09	3.21E-09	7.74E-13	0.00E+00	4.23E-09
5150	421023.06	3733914.7	1.22E-08	5.17E-08	2.27E-11	0.00E+00	6.39E-08	1.68E-09	7.07E-09	3.38E-12	0.00E+00	8.75E-09	1.03E-09	3.25E-09	7.84E-13	0.00E+00	4.28E-09
5151	421030.79	3733919.38	1.24E-08	5.23E-08	2.29E-11	0.00E+00	6.47E-08	1.70E-09	7.15E-09	3.42E-12	0.00E+00	8.85E-09	1.04E-09	3.29E-09	7.93E-13	0.00E+00	4.33E-09
5152	421084.86	3733952.15	1.33E-08	5.61E-08	2.46E-11	0.00E+00	6.94E-08	1.82E-09	7.67E-09	3.67E-12	0.00E+00	9.50E-09	1.12E-09	3.53E-09	8.51E-13	0.00E+00	4.65E-09
5153	421100.31	3733961.51	1.35E-08	5.70E-08	2.50E-11	0.00E+00	7.05E-08	1.85E-09	7.79E-09	3.72E-12	0.00E+00	9.65E-09	1.14E-09	3.58E-09	8.65E-13	0.00E+00	4.72E-09
5154	421108.04	3733966.19	1.36E-08	5.74E-08	2.52E-11	0.00E+00	7.10E-08	1.86E-09	7.85E-09	3.75E-12	0.00E+00	9.71E-09	1.14E-09	3.61E-09	8.71E-13	0.00E+00	4.75E-09
5155	421123.49	3733975.55	1.37E-08	5.80E-08	2.55E-11	0.00E+00	7.18E-08	1.88E-09	7.94E-09	3.79E-12	0.00E+00	9.82E-09	1.16E-09	3.65E-09	8.81E-13	0.00E+00	4.80E-09
5156	421134.27	3733988.73	1.41E-08	5.96E-08	2.61E-11	0.00E+00	7.37E-08	1.93E-09	8.15E-09	3.89E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.04E-13	0.00E+00	4.93E-09
5157	421137.32	3733997.24	1.44E-08	6.09E-08	2.67E-11	0.00E+00	7.53E-08	1.98E-09	8.32E-09	3.98E-12	0.00E+00	1.03E-08	1.21E-09	3.83E-09	9.23E-13	0.00E+00	5.04E-09
5158	421140.37	3734005.74	1.47E-08	6.22E-08	2.73E-11	0.00E+00	7.69E-08	2.02E-09	8.50E-09	4.06E-12	0.00E+00	1.05E-08	1.24E-09	3.91E-09	9.43E-13	0.00E+00	5.15E-09
5159	421143.42	3734014.24	1.50E-08	6.35E-08	2.78E-11	0.00E+00	7.85E-08	2.06E-09	8.68E-09	4.15E-12	0.00E+00	1.07E-08	1.26E-09	3.99E-09	9.63E-13	0.00E+00	5.25E-09
5160	421146.47	3734022.74	1.53E-08	6.47E-08	2.84E-11	0.00E+00	8.01E-08	2.10E-09	8.85E-09	4.23E-12	0.00E+00	1.10E-08	1.29E-09	4.07E-09	9.82E-13	0.00E+00	5.36E-09
5161	421149.52	3734031.25	1.56E-08	6.60E-08	2.90E-11	0.00E+00	8.17E-08	2.14E-09	9.03E-09	4.31E-12	0.00E+00	1.12E-08	1.32E-09	4.15E-09	1.00E-12	0.00E+00	5.47E-09
5162	421152.57	3734039.75	1.59E-08	6.73E-08	2.95E-11	0.00E+00	8.33E-08	2.18E-09	9.20E-09	4.40E-12	0.00E+00	1.14E-08	1.34E-09	4.23E-09	1.02E-12	0.00E+00	5.57E-09
5163	421155.62	3734048.25	1.62E-08	6.86E-08	3.01E-11	0.00E+00	8.49E-08	2.23E-09	9.38E-09	4.48E-12	0.00E+00	1.16E-08	1.37E-09	4.31E-09	1.04E-12	0.00E+00	5.68E-09
5164	421158.67	3734056.75	1.65E-08	6.99E-08	3.07E-11	0.00E+00	8.64E-08	2.27E-09	9.55E-09	4.57E-12	0.00E+00	1.18E-08	1.39E-09	4.39E-09	1.06E-12	0.00E+00	5.78E-09
5165	421161.72	3734065.25	1.68E-08	7.11E-08	3.12E-11	0.00E+00	8.80E-08	2.31E-09	9.73E-09	4.65E-12	0.00E+00	1.20E-08	1.42E-09	4.47E-09	1.08E-12	0.00E+00	5.89E-09
5166	421195.28	3734158.78	2.00E-08	8.46E-08	3.71E-11	0.00E+00	1.05E-07	2.75E-09	1.16E-08	5.53E-12	0.00E+00	1.43E-08	1.69E-09	5.32E-09	1.28E-12	0.00E+00	7.01E-09
5167	421198.33	3734167.28	2.03E-08	8.59E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.17E-08	5.61E-12	0.00E+00	1.45E-08	1.71E-09	5.40E-09	1.30E-12	0.00E+00	7.11E-09
5168	421201.38	3734175.78	2.06E-08	8.71E-08	3.82E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.69E-12	0.00E+00	1.48E-08	1.74E-09	5.48E-09	1.32E-12	0.00E+00	7.21E-09
5169	421204.43	3734184.29	2.09E-08	8.85E-08	3.88E-11	0.00E+00	1.09E-07	2.87E-09	1.21E-08	5.78E-12	0.00E+00	1.50E-08	1.76E-09	5.56E-09	1.34E-12	0.00E+00	7.32E-09
5170	421207.48	3734192.79	2.13E-08	8.98E-08	3.94E-11	0.00E+00	1.11E-07	2.92E-09	1.23E-08	5.87E-12	0.00E+00	1.52E-08	1.79E-09	5.65E-09	1.36E-12	0.00E+00	7.44E-09
5171	421210.53	3734201.29	2.16E-08	9.13E-08	4.00E-11	0.00E+00	1.13E-07	2.96E-09	1.25E-08	5.96E-12	0.00E+00	1.54E-08	1.82E-09	5.74E-09	1.38E-12	0.00E+00	7.56E-09
5172	421213.58	3734209.79	2.20E-08	9.27E-08	4.07E-11	0.00E+00	1.15E-07	3.01E-09	1.27E-08	6.06E-12	0.00E+00	1.57E-08	1.85E-09	5.83E-09	1.41E-12	0.00E+00	7.68E-09
5173	420836.33	3733805.17	8.78E-09	3.71E-08	1.63E-11	0.00E+00	4.59E-08	1.20E-09	5.07E-09	2.42E-12	0.00E+00	6.28E-09	7.39E-10	2.33E-09	5.63E-13	0.00E+00	3.07E-09
5174	420827.29	3733803.3	8.71E-09	3.68E-08	1.61E-11	0.00E+00	4.55E-08	1.19E-09	5.03E-09	2.40E-12	0.00E+00	6.23E-09	7.33E-10	2.31E-09	5.58E-13	0.00E+00	3.05E-09
5175	420884.35	3733786.57	8.37E-09	3.53E-08	1.55E-11	0.00E+00	4.37E-08	1.15E-09	4.83E-09	2.31E-12	0.00E+00	5.98E-09	7.04E-10	2.22E-09	5.36E-13	0.00E+00	2.93E-09
5176	420915.22	3733805.28	8.84E-09	3.73E-08	1.64E-11	0.00E+00	4.62E-08	1.21E-09	5.11E-09	2.44E-12	0.00E+00	6.32E-09	7.44E-10	2.35E-09	5.66E-13	0.00E+00	3.09E-09
5177	420922.94	3733809.95	8.96E-09	3.78E-08	1.66E-11	0.00E+00	4.68E-08	1.23E-09	5.18E-09	2.47E-12	0.00E+00	6.41E-09	7.54E-10	2.38E-09	5.74E-13	0.00E+00	3.13E-09
5178	420930.65	3733814.63	9.09E-09	3.84E-08	1.68E-11	0.00E+00	4.75E-08	1.25E-09	5.25E-09	2.51E-12	0.00E+00	6.49E-09	7.64E-10	2.41E-09	5.82E-13	0.00E+00	3.18E-09
5179	420946.09	3733823.98	9.33E-09	3.94E-08	1.73E-11	0.00E+00	4.87E-08	1.28E-09	5.39E-09	2.57E-12	0.00E+00	6.67E-09	7.85E-10	2.48E-09	5.98E-13	0.00E+00	3.26E-09
5180	420969.24	3733838.01	9.71E-09	4.10E-08	1.80E-11	0.00E+00	5.07E-08	1.33E-09	5.61E-09	2.68E-12	0.00E+00	6.94E-09	8.17E-10	2.58E-09	6.22E-13	0.00E+00	3.39E-09
5181	420976.96	3733842.69	9.83E-09	4.15E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.71E-12	0.00E+00	7.03E-09	8.27E-10	2.61E-09	6.30E-13	0.00E+00	3.44E-09
5182	420992.4	3733852.04	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.83E-09	2.78E-12	0.00E+00	7.21E-09	8.49E-10	2.68E-09	6.46E-13	0.00E+00	3.53E-09
5183	421000.11	3733856.71	1.02E-08	4.31E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.30E-09	8.60E-10	2.71E-09	6.54E-13	0.00E+00	3.57E-09
5184	421007.83	3733861.39	1.03E-08	4.37E-08	1.92E-11	0.00E+00	5.40E-08	1.42E-09	5.97E-09	2.85E-12	0.00E+00	7.39E-09	8.70E-10	2.75E-09	6.63E-13	0.00E+00	3.62E-09
5185	421023.27	3733870.74	1.06E-08	4.48E-08	1.96E-11	0.00E+00	5.54E-08	1.45E-09	6.12E-09	2.92E-12	0.00E+00	7.58E-09	8.92E-10	2.81E-09	6.79E-13	0.00E+00	3.70E-09
5186	421030.99	3733875.42	1.07E-08	4.53E-08	1.99E-11	0.00E+00	5.60E-08	1.47E-09	6.19E-09	2.96E-12	0.00E+00	7.67E-09	9.02E-10	2.85E-09	6.87E-13	0.00E+00	3.75E-09
5187	421046.42	3733884.77	1.10E-08	4.63E-08	2.03E-11	0.00E+00	5.73E-08	1.50E-09	6.34E-09	3.03E-12	0.00E+00	7.84E-09	9.23E-10	2.91E-09	7.03E-13	0.00E+00	3.84E-09
5188	421054.14	3733889.45	1.11E-08	4.69E-08	2.06E-11	0.00E+00	5.80E-08	1.52E-09	6.41E-09	3.06E-12	0.00E+00	7.93E-09	9.34E-10	2.94E-09	7.11E-13	0.00E+00	3.88E-09
5189	421061.86	3733894.13	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.86E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.02E-09	9.44E-10	2.98E-09	7.19E-13	0.00E+00	3.92E-09
5190	421077.29	3733903.48	1.14E-08	4.83E-08	2.12E-11	0.00E+00	5.98E-08	1.57E-09	6.61E-09	3.16E-12	0.00E+00	8.18E-09	9.63E-10	3.04E-09	7.33E-13	0.00E+00	4.00E-09
5191	421085.01	3733908.15	1.16E-08	4.88E-08	2.14E-11	0.00E+00	6.04E-08	1.58E-09	6.67E-09	3.19E-12	0.00E+00	8.26E-09	9.72E-10	3.07E-09	7.40E-13	0.00E+00	4.04E-09
5192	421100.44	3733917.51	1.18E-08	4.97E-08	2.18E-11	0.00E+00	6.15E-08	1.61E-09	6.79E-09	3.25E-12	0.00E+00	8.41E-09	9.90E-10	3.12E-09	7.54E-13	0.00E+00	4.11E-09
5193	421108.16	3733922.18	1.19E-08	5.01E-08	2.20E-11	0.00E+00	6.19E-08	1.63E-09	6.85E-09	3.27E-12	0.00E+00	8.47E-09	9.97E-10	3.15E-09	7.59E-13	0.00E+00	4.14E-09
5194	421165.23	3733963.41	1.26E-08	5.31E-08	2.33E-11	0.00E+00	6.57E-08	1.72E-09	7.26E-09	3.47E-12	0.00E+00	8.99E-09	1.06E-09	3.34E-09	8.06E-13	0.00E+00	4.40E-09
5195	421168.28	3733971.9	1.28E-08	5.42E-08	2.38E-11	0.00E+00	6.70E-08	1.76E-09	7.40E-09	3.54E-12	0.00E+00	9.17E-09	1.08E-09	3.40E-09	8.22E-13	0.00E+00	4.48E-09
5196	421171.33	3733980.4	1.31E-08	5.52E-08	2.42E-11	0.00E+00	6.83E-08	1.79E-09	7.55E-09	3.61E-12	0.00E+00	9.34E-09	1.10E-09	3.47E-09	8.37E-13	0.00E+00	4.57E-09
5197	421174.38	3733988.89	1.33E-08	5.63E-08	2.47E-11	0.00E+00	6.96E-08	1.83E-09	7.69E-09	3.68E-12	0.00E+00	9.52E-09	1.12E-09	3.54E-09	8.53E-13	0.00E+00	4.66E-09
5198	421177.42	3733997.39	1.36E-08	5.73E-08	2.51E-11	0.00E+00	7.09E-08	1.86E-09	7.84E-09	3.74E-12	0.00E+00	9.70E-09	1.14E-09	3.60E-09	8.69E-13	0.00E+00	4.74E-09
5199	421180.47	3734005.88	1.38E-08	5.84E-08	2.56E-11	0.00E+00	7.22E-08	1.89E-09	7.98E-09	3.81E-12	0.00E+00	9.88E-09	1.16E-09	3.67E-09	8.85E-13	0.00E+00	4.83E-09
5200	421186.57	3734022.87	1.43E-08	6.04E-08	2.65E-11	0.00E+00	7.48E-08	1.96E-09	8.26E-09	3.95E-12	0.00E+00	1.02E-08	1.20E-09	3.80E-09	9.17E-13	0.00E+00	5.00E-09
5201	421204.85	3734073.83	1.57E-08	6.65E-08	2.92E-11	0.00E+00	8.23E-08	2.16E-09	9.09E-09	4.34E-12	0.00E+00	1.13E-08	1.32E-09	4.18E-09	1.01E-12	0.00E+00	5.50E-09
5202	421207.9	3734082.32	1.60E-08	6.75E-08	2.96E-11	0.00E+00	8.35E-08	2.19E-09	9.22E-09	4.41E-12	0.00E+00	1.14E-08	1.34E-09	4.24E-09	1.02E-12	0.00E+00	5.58E-09
5203	421210.95	3734090.82	1.62E-08	6.84E-08	3.00E-11	0.00E+00	8.47E-08	2.22E-09	9.36E-09	4.47E-12	0.00E+00	1.16E-08	1.36E-09	4.30E-09	1.04E-12	0.00E+00	5.66E-09
5204	421213.99	3734099.31	1.64E-08	6.94E-08	3.05E-11	0.00E+00	8.59E-08	2.25E-09	9.49E-09	4.54E-12	0.00E+00	1.17E-08	1.38E-09	4.36E-09	1.05E-12	0.00E+00	5.75E-09
5205	421235.33	3734158.77	1.81E-08	7.62E-08	3.34E-11	0.00E+00	9.43E-08	2.47E-09	1.04E-08	4.98E-12	0.00E+00	1.29E-08	1.52E-09	4.79E-09	1.16E-12	0.00E+00	6.31E-09
5206	421238.37	3734167.26	1.83E-08	7.72E-08	3.39E-11	0.00E+00	9.56E-08	2.51E-09	1.06E-08	5.05E-12	0.00E+00	1.31E-08	1.54E-09	4.85E-09	1.17E-12	0.00E+00	6.40E-09
5207	421241.42	3734175.75	1.85E-08	7.83E-08	3.44E-11	0.00E+00	9.69E-08	2.54E-09	1.07E-08	5.12E-12	0.00E+00	1.33E-08	1.56E-09	4.92E-09	1.19E-12	0.00E+00	6.48E-09
5208	421244.47	3734184.25	1.88E-08	7.94E-08	3.49E-11	0.00E+00	9.83E-08	2.58E-09	1.09E-08	5.19E-12	0.00E+00	1.34E-08	1.58E-09	4.99E-09	1.21E-12	0.00E+00	6.58E-09
5209	421247.52	3734192.74	1.91E-08	8.06E-08	3.54E-11	0.00E+00	9.97E-08	2.62E-09	1.10E-08	5.27E-12	0.00E+00	1.36E-08	1.61E-09	5.07E-09	1.22E-12	0.00E+00	6.67E-09
5210	421250.56	3734201.24	1.94E-08	8.18E-08	3.59E-11	0.00E+00	1.01E-07	2.66E-09	1.12E-08	5.35E-12	0.00E+00	1.38E-08	1.63E-09	5.14E-09	1.24E-12	0.00E+00	6.77E-09
5211	421253.61	3734209.73	1.97E-08	8.31E-08	3.65E-11	0.00E+00	1.03E-07	2.70E-09	1.14E-08	5.43E-12	0.00E+00	1.41E-08	1.66E-09	5.22E-09	1.26E-12	0.00E+00	6.88E-09
5212	421256.66	3734218.22	2.00E-08	8.44E-08	3.70E-11	0.00E+00	1.04E-07	2.74E-09	1.15E-08	5.52E-12	0.00E+00	1.43E-08	1.68E-09	5.31E-09	1.28E-12	0.00E+00	6.99E-09
5213	421259.71	3734226.72	2.03E-08	8.58E-08	3.77E-11	0.00E+00	1.06E-07	2.79E-09	1.17E-08	5.61E-12	0.00E+00	1.45E-08	1.71E-09	5.39E-09	1.30E-12	0.00E+00	7.10E-09
5214	421262.75	3734235.21	2.07E-08	8.73E-08	3.83E-11	0.00E+00	1.08E-07	2.83E-09	1.19E-08	5.71E-12	0.00E+00	1.48E-08	1.74E-09	5.49E-09	1.32E-12	0.00E+00	7.23E-09
5215	421265.8	3734243.7	2.10E-08	8.89E-08	3.90E-11	0.00E+00	1.10E-07	2.88E-09	1.22E-08	5.81E-12	0.00E+00	1.50E-08	1.77E-09	5.58E-09	1.35E-12	0.00E+00	7.36E-09
5216	421281.04	3734286.17	2.33E-08	9.84E-08	4.32E-11	0.00E+00	1.22E-07	3.19E-09	1.35E-08	6.43E-12	0.00E+00	1.67E-08	1.96E-09	6.18E-09	1.49E-12	0.00E+00	8.14E-09
5217	420853.48	3733767.87	7.91E-09	3.34E-08	1.46E-11	0.00E+00	4.13E-08	1.08E-09	4.56E-09	2.18E-12	0.00E+00	5.65E-09	6.65E-10	2.10E-09	5.06E-13	0.00E+00	2.76E-09
5218	420844.44	3733766	7.85E-09	3.31E-08	1.45E-11	0.00E+00	4.10E-08	1.08E-09	4.53E-09	2.17E-12	0.00E+00	5.61E-09	6.60E-10	2.08E-09	5.03E-13	0.00E+00	2.74E-09
5219	420835.4	3733764.13	7.79E-09	3.29E-08	1.44E-11	0.00E+00	4.07E-08	1.07E-09	4.50E-09	2.15E-12	0.00E+00	5.57E-09	6.56E-10	2.07E-09	4.99E-13	0.00E+00	2.72E-09
5220	420893.16	3733747.83	7.52E-09	3.18E-08	1.39E-11	0.00E+00	3.93E-08	1.03E-09	4.34E-09	2.08E-12	0.00E+00	5.38E-09	6.33E-10	2.00E-09	4.82E-13	0.00E+00	2.63E-09
5221	420901.05	3733752.61	7.62E-09	3.22E-08	1.41E-11	0.00E+00	3.98E-08	1.04E-09	4.40E-09	2.10E-12	0.00E+00	5.45E-09	6.41E-10	2.02E-09	4.88E-13	0.00E+00	2.66E-09
5222	420932.63	3733771.75	8.03E-09	3.39E-08	1.49E-11	0.00E+00	4.20E-08	1.10E-09	4.64E-09	2.22E-12	0.00E+00	5.74E-09	6.76E-10	2.13E-09	5.15E-13	0.00E+00	2.81E-09
5223	420940.53	3733776.53	8.14E-09	3.44E-08	1.51E-11	0.00E+00	4.25E-08	1.12E-09	4.70E-09	2.24E-12	0.00E+00	5.81E-09	6.84E-10	2.16E-09	5.21E-13	0.00E+00	2.84E-09
5224	420948.42	3733781.31	8.24E-09	3.48E-08	1.53E-11	0.00E+00	4.31E-08	1.13E-09	4.76E-09	2.27E-12	0.00E+00	5.89E-09	6.93E-10	2.19E-09	5.28E-13	0.00E+00	2.88E-09
5225	420956.32	3733786.1	8.34E-09	3.52E-08	1.55E-11	0.00E+00	4.36E-08	1.14E-09	4.82E-09	2.30E-12	0.00E+00	5.96E-09	7.02E-10	2.21E-09	5.35E-13	0.00E+00	2.92E-09
5226	420964.21	3733790.88	8.45E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.04E-09	7.11E-10	2.24E-09	5.41E-13	0.00E+00	2.95E-09
5227	420987.9	3733805.23	8.77E-09	3.70E-08	1.63E-11	0.00E+00	4.58E-08	1.20E-09	5.07E-09	2.42E-12	0.00E+00	6.27E-09	7.38E-10	2.33E-09	5.62E-13	0.00E+00	3.07E-09
5228	420995.79	3733810.01	8.88E-09	3.75E-08	1.65E-11	0.00E+00	4.64E-08	1.22E-09	5.13E-09	2.45E-12	0.00E+00	6.35E-09	7.47E-10	2.36E-09	5.69E-13	0.00E+00	3.11E-09
5229	421003.68	3733814.8	8.99E-09	3.80E-08	1.67E-11	0.00E+00	4.70E-08	1.23E-09	5.19E-09	2.48E-12	0.00E+00	6.43E-09	7.57E-10	2.39E-09	5.76E-13	0.00E+00	3.14E-09
5230	421011.58	3733819.58	9.10E-09	3.84E-08	1.69E-11	0.00E+00	4.76E-08	1.25E-09	5.26E-09	2.51E-12	0.00E+00	6.51E-09	7.66E-10	2.42E-09	5.83E-13	0.00E+00	3.18E-09
5231	421019.47	3733824.36	9.22E-09	3.89E-08	1.71E-11	0.00E+00	4.82E-08	1.26E-09	5.32E-09	2.54E-12	0.00E+00	6.59E-09	7.75E-10	2.45E-09	5.90E-13	0.00E+00	3.22E-09
5232	421027.37	3733829.15	9.33E-09	3.94E-08	1.73E-11	0.00E+00	4.87E-08	1.28E-09	5.39E-09	2.57E-12	0.00E+00	6.67E-09	7.85E-10	2.48E-09	5.98E-13	0.00E+00	3.26E-09
5233	421035.26	3733833.93	9.44E-09	3.98E-08	1.75E-11	0.00E+00	4.93E-08	1.29E-09	5.45E-09	2.60E-12	0.00E+00	6.75E-09	7.94E-10	2.50E-09	6.05E-13	0.00E+00	3.30E-09
5234	421043.16	3733838.72	9.55E-09	4.03E-08	1.77E-11	0.00E+00	4.99E-08	1.31E-09	5.51E-09	2.63E-12	0.00E+00	6.82E-09	8.03E-10	2.53E-09	6.12E-13	0.00E+00	3.34E-09
5235	421051.05	3733843.5	9.66E-09	4.08E-08	1.79E-11	0.00E+00	5.05E-08	1.32E-09	5.58E-09	2.66E-12	0.00E+00	6.90E-09	8.12E-10	2.56E-09	6.19E-13	0.00E+00	3.38E-09
5236	421058.95	3733848.28	9.77E-09	4.12E-08	1.81E-11	0.00E+00	5.10E-08	1.34E-09	5.64E-09	2.70E-12	0.00E+00	6.98E-09	8.22E-10	2.59E-09	6.26E-13	0.00E+00	3.41E-09
5237	421066.84	3733853.07	9.88E-09	4.17E-08	1.83E-11	0.00E+00	5.16E-08	1.35E-09	5.70E-09	2.73E-12	0.00E+00	7.06E-09	8.31E-10	2.62E-09	6.33E-13	0.00E+00	3.45E-09
5238	421074.74	3733857.85	9.98E-09	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.76E-09	2.76E-12	0.00E+00	7.14E-09	8.40E-10	2.65E-09	6.40E-13	0.00E+00	3.49E-09
5239	421082.63	3733862.63	1.01E-08	4.26E-08	1.87E-11	0.00E+00	5.27E-08	1.38E-09	5.83E-09	2.78E-12	0.00E+00	7.21E-09	8.49E-10	2.68E-09	6.46E-13	0.00E+00	3.53E-09
5240	421090.53	3733867.42	1.02E-08	4.30E-08	1.89E-11	0.00E+00	5.33E-08	1.40E-09	5.89E-09	2.81E-12	0.00E+00	7.29E-09	8.58E-10	2.71E-09	6.53E-13	0.00E+00	3.56E-09

5241	421098.42	3733872.2	1.03E-08	4.35E-08	1.91E-11	0.00E+00	5.38E-08	1.41E-09	5.94E-09	2.84E-12	0.00E+00	7.36E-09	8.66E-10	2.73E-09	6.59E-13	0.00E+00	3.60E-09
5242	421106.32	3733876.98	1.04E-08	4.39E-08	1.92E-11	0.00E+00	5.43E-08	1.42E-09	6.00E-09	2.87E-12	0.00E+00	7.43E-09	8.74E-10	2.76E-09	6.66E-13	0.00E+00	3.63E-09
5243	421114.21	3733881.77	1.05E-08	4.43E-08	1.94E-11	0.00E+00	5.48E-08	1.44E-09	6.05E-09	2.89E-12	0.00E+00	7.49E-09	8.82E-10	2.78E-09	6.71E-13	0.00E+00	3.66E-09
5244	421122.1	3733886.55	1.06E-08	4.46E-08	1.96E-11	0.00E+00	5.52E-08	1.45E-09	6.10E-09	2.92E-12	0.00E+00	7.56E-09	8.89E-10	2.81E-09	6.77E-13	0.00E+00	3.70E-09
5245	421130	3733891.33	1.07E-08	4.50E-08	1.97E-11	0.00E+00	5.57E-08	1.46E-09	6.15E-09	2.94E-12	0.00E+00	7.61E-09	8.96E-10	2.83E-09	6.82E-13	0.00E+00	3.72E-09
5246	421137.89	3733896.12	1.07E-08	4.53E-08	1.99E-11	0.00E+00	5.61E-08	1.47E-09	6.20E-09	2.96E-12	0.00E+00	7.67E-09	9.03E-10	2.85E-09	6.88E-13	0.00E+00	3.75E-09
5247	421145.79	3733900.9	1.08E-08	4.56E-08	2.00E-11	0.00E+00	5.64E-08	1.48E-09	6.24E-09	2.98E-12	0.00E+00	7.72E-09	9.09E-10	2.87E-09	6.92E-13	0.00E+00	3.78E-09
5248	421153.68	3733905.68	1.09E-08	4.59E-08	2.01E-11	0.00E+00	5.68E-08	1.49E-09	6.28E-09	3.00E-12	0.00E+00	7.77E-09	9.15E-10	2.89E-09	6.97E-13	0.00E+00	3.80E-09
5249	421161.58	3733910.47	1.09E-08	4.62E-08	2.03E-11	0.00E+00	5.71E-08	1.50E-09	6.31E-09	3.02E-12	0.00E+00	7.82E-09	9.20E-10	2.90E-09	7.01E-13	0.00E+00	3.82E-09
5250	421169.47	3733915.25	1.10E-08	4.64E-08	2.04E-11	0.00E+00	5.74E-08	1.51E-09	6.35E-09	3.03E-12	0.00E+00	7.86E-09	9.25E-10	2.92E-09	7.04E-13	0.00E+00	3.84E-09
5251	421177.37	3733920.03	1.10E-08	4.66E-08	2.05E-11	0.00E+00	5.77E-08	1.51E-09	6.37E-09	3.05E-12	0.00E+00	7.89E-09	9.29E-10	2.93E-09	7.07E-13	0.00E+00	3.86E-09
5252	421205.63	3733964.36	1.19E-08	5.04E-08	2.21E-11	0.00E+00	6.24E-08	1.64E-09	6.90E-09	3.30E-12	0.00E+00	8.54E-09	1.00E-09	3.17E-09	7.65E-13	0.00E+00	4.17E-09
5253	421208.74	3733973.04	1.21E-08	5.13E-08	2.25E-11	0.00E+00	6.35E-08	1.67E-09	7.01E-09	3.35E-12	0.00E+00	8.68E-09	1.02E-09	3.22E-09	7.78E-13	0.00E+00	4.25E-09
5254	421211.86	3733981.73	1.24E-08	5.22E-08	2.29E-11	0.00E+00	6.45E-08	1.69E-09	7.13E-09	3.41E-12	0.00E+00	8.83E-09	1.04E-09	3.28E-09	7.91E-13	0.00E+00	4.32E-09
5255	421230.57	3734033.86	1.36E-08	5.73E-08	2.51E-11	0.00E+00	7.09E-08	1.86E-09	7.83E-09	3.74E-12	0.00E+00	9.69E-09	1.14E-09	3.60E-09	8.69E-13	0.00E+00	4.74E-09
5256	421233.68	3734042.55	1.38E-08	5.81E-08	2.55E-11	0.00E+00	7.19E-08	1.89E-09	7.94E-09	3.80E-12	0.00E+00	9.83E-09	1.16E-09	3.65E-09	8.81E-13	0.00E+00	4.81E-09
5257	421236.8	3734051.24	1.39E-08	5.89E-08	2.58E-11	0.00E+00	7.29E-08	1.91E-09	8.05E-09	3.85E-12	0.00E+00	9.97E-09	1.17E-09	3.70E-09	8.94E-13	0.00E+00	4.88E-09
5258	421239.92	3734059.93	1.41E-08	5.97E-08	2.62E-11	0.00E+00	7.39E-08	1.94E-09	8.16E-09	3.90E-12	0.00E+00	1.01E-08	1.19E-09	3.75E-09	9.06E-13	0.00E+00	4.94E-09
5259	421243.03	3734068.62	1.43E-08	6.05E-08	2.65E-11	0.00E+00	7.48E-08	1.96E-09	8.27E-09	3.95E-12	0.00E+00	1.02E-08	1.21E-09	3.80E-09	9.18E-13	0.00E+00	5.01E-09
5260	421246.15	3734077.31	1.45E-08	6.13E-08	2.69E-11	0.00E+00	7.58E-08	1.99E-09	8.38E-09	4.01E-12	0.00E+00	1.04E-08	1.22E-09	3.85E-09	9.30E-13	0.00E+00	5.07E-09
5261	421249.27	3734085.99	1.47E-08	6.21E-08	2.72E-11	0.00E+00	7.68E-08	2.01E-09	8.49E-09	4.06E-12	0.00E+00	1.05E-08	1.24E-09	3.90E-09	9.41E-13	0.00E+00	5.14E-09
5262	421252.39	3734094.68	1.49E-08	6.28E-08	2.76E-11	0.00E+00	7.78E-08	2.04E-09	8.59E-09	4.11E-12	0.00E+00	1.06E-08	1.25E-09	3.95E-09	9.53E-13	0.00E+00	5.20E-09
5263	421255.5	3734103.37	1.51E-08	6.36E-08	2.79E-11	0.00E+00	7.87E-08	2.07E-09	8.70E-09	4.16E-12	0.00E+00	1.08E-08	1.27E-09	4.00E-09	9.65E-13	0.00E+00	5.27E-09
5264	421258.62	3734112.06	1.53E-08	6.44E-08	2.83E-11	0.00E+00	7.97E-08	2.09E-09	8.81E-09	4.21E-12	0.00E+00	1.09E-08	1.28E-09	4.05E-09	9.77E-13	0.00E+00	5.33E-09
5265	421261.74	3734120.75	1.54E-08	6.52E-08	2.86E-11	0.00E+00	8.07E-08	2.12E-09	8.92E-09	4.26E-12	0.00E+00	1.10E-08	1.30E-09	4.10E-09	9.89E-13	0.00E+00	5.40E-09
5266	421264.86	3734129.44	1.56E-08	6.60E-08	2.90E-11	0.00E+00	8.17E-08	2.14E-09	9.03E-09	4.31E-12	0.00E+00	1.12E-08	1.32E-09	4.15E-09	1.00E-12	0.00E+00	5.47E-09
5267	421267.97	3734138.13	1.58E-08	6.68E-08	2.93E-11	0.00E+00	8.27E-08	2.17E-09	9.14E-09	4.37E-12	0.00E+00	1.13E-08	1.33E-09	4.20E-09	1.01E-12	0.00E+00	5.53E-09
5268	421271.09	3734146.81	1.60E-08	6.77E-08	2.97E-11	0.00E+00	8.37E-08	2.20E-09	9.26E-09	4.42E-12	0.00E+00	1.15E-08	1.35E-09	4.25E-09	1.03E-12	0.00E+00	5.60E-09
5269	421274.21	3734155.5	1.62E-08	6.86E-08	3.01E-11	0.00E+00	8.48E-08	2.23E-09	9.37E-09	4.48E-12	0.00E+00	1.16E-08	1.37E-09	4.31E-09	1.04E-12	0.00E+00	5.68E-09
5270	421277.33	3734164.19	1.65E-08	6.95E-08	3.05E-11	0.00E+00	8.60E-08	2.26E-09	9.50E-09	4.54E-12	0.00E+00	1.18E-08	1.38E-09	4.37E-09	1.05E-12	0.00E+00	5.75E-09
5271	421280.44	3734172.88	1.67E-08	7.04E-08	3.09E-11	0.00E+00	8.71E-08	2.29E-09	9.63E-09	4.60E-12	0.00E+00	1.19E-08	1.40E-09	4.43E-09	1.07E-12	0.00E+00	5.83E-09
5272	421283.56	3734181.57	1.69E-08	7.14E-08	3.13E-11	0.00E+00	8.83E-08	2.32E-09	9.76E-09	4.67E-12	0.00E+00	1.21E-08	1.42E-09	4.49E-09	1.08E-12	0.00E+00	5.91E-09
5273	421286.68	3734190.26	1.72E-08	7.24E-08	3.18E-11	0.00E+00	8.96E-08	2.35E-09	9.91E-09	4.73E-12	0.00E+00	1.23E-08	1.44E-09	4.55E-09	1.10E-12	0.00E+00	6.00E-09
5274	421289.79	3734198.94	1.74E-08	7.35E-08	3.23E-11	0.00E+00	9.10E-08	2.39E-09	1.01E-08	4.81E-12	0.00E+00	1.24E-08	1.47E-09	4.62E-09	1.12E-12	0.00E+00	6.09E-09
5275	421292.91	3734207.63	1.77E-08	7.47E-08	3.28E-11	0.00E+00	9.24E-08	2.42E-09	1.02E-08	4.88E-12	0.00E+00	1.26E-08	1.49E-09	4.69E-09	1.13E-12	0.00E+00	6.18E-09
5276	421296.03	3734216.32	1.80E-08	7.59E-08	3.33E-11	0.00E+00	9.39E-08	2.46E-09	1.04E-08	4.96E-12	0.00E+00	1.28E-08	1.51E-09	4.77E-09	1.15E-12	0.00E+00	6.28E-09
5277	421299.15	3734225.01	1.83E-08	7.71E-08	3.38E-11	0.00E+00	9.54E-08	2.50E-09	1.05E-08	5.04E-12	0.00E+00	1.31E-08	1.54E-09	4.85E-09	1.17E-12	0.00E+00	6.39E-09
5278	421302.26	3734233.7	1.86E-08	7.84E-08	3.44E-11	0.00E+00	9.70E-08	2.55E-09	1.07E-08	5.13E-12	0.00E+00	1.33E-08	1.56E-09	4.93E-09	1.19E-12	0.00E+00	6.49E-09
5279	421305.38	3734242.39	1.89E-08	7.98E-08	3.50E-11	0.00E+00	9.87E-08	2.59E-09	1.09E-08	5.22E-12	0.00E+00	1.35E-08	1.59E-09	5.02E-09	1.21E-12	0.00E+00	6.61E-09
5280	421320.97	3734285.83	2.08E-08	8.78E-08	3.85E-11	0.00E+00	1.09E-07	2.85E-09	1.20E-08	5.74E-12	0.00E+00	1.49E-08	1.75E-09	5.52E-09	1.33E-12	0.00E+00	7.27E-09
5281	420861.58	3733728.69	7.12E-09	3.01E-08	1.32E-11	0.00E+00	3.72E-08	9.76E-10	4.11E-09	1.97E-12	0.00E+00	5.09E-09	5.99E-10	1.89E-09	4.56E-13	0.00E+00	2.49E-09
5282	420852.54	3733726.82	7.07E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.70E-10	4.08E-09	1.95E-12	0.00E+00	5.06E-09	5.95E-10	1.88E-09	4.53E-13	0.00E+00	2.47E-09
5283	420843.5	3733724.95	7.03E-09	2.97E-08	1.30E-11	0.00E+00	3.67E-08	9.63E-10	4.06E-09	1.94E-12	0.00E+00	5.02E-09	5.91E-10	1.86E-09	4.50E-13	0.00E+00	2.46E-09
5284	420901.19	3733708.61	6.81E-09	2.87E-08	1.26E-11	0.00E+00	3.56E-08	9.33E-10	3.93E-09	1.88E-12	0.00E+00	4.86E-09	5.73E-10	1.81E-09	4.36E-13	0.00E+00	2.38E-09
5285	420909.07	3733713.39	6.89E-09	2.91E-08	1.28E-11	0.00E+00	3.60E-08	9.44E-10	3.98E-09	1.90E-12	0.00E+00	4.92E-09	5.80E-10	1.83E-09	4.41E-13	0.00E+00	2.41E-09
5286	420916.94	3733718.16	6.97E-09	2.94E-08	1.29E-11	0.00E+00	3.64E-08	9.56E-10	4.03E-09	1.92E-12	0.00E+00	4.98E-09	5.87E-10	1.85E-09	4.47E-13	0.00E+00	2.44E-09
5287	420924.82	3733722.93	7.06E-09	2.98E-08	1.31E-11	0.00E+00	3.69E-08	9.68E-10	4.08E-09	1.95E-12	0.00E+00	5.05E-09	5.94E-10	1.87E-09	4.52E-13	0.00E+00	2.47E-09
5288	420948.45	3733737.25	7.32E-09	3.09E-08	1.36E-11	0.00E+00	3.82E-08	1.00E-09	4.23E-09	2.02E-12	0.00E+00	5.23E-09	6.16E-10	1.94E-09	4.69E-13	0.00E+00	2.56E-09
5289	420956.33	3733742.02	7.41E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.04E-12	0.00E+00	5.30E-09	6.23E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
5290	420964.2	3733746.79	7.50E-09	3.17E-08	1.39E-11	0.00E+00	3.92E-08	1.03E-09	4.33E-09	2.07E-12	0.00E+00	5.36E-09	6.31E-10	1.99E-09	4.80E-13	0.00E+00	2.62E-09
5291	420972.08	3733751.57	7.59E-09	3.20E-08	1.41E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.86E-13	0.00E+00	2.65E-09
5292	420979.95	3733756.34	7.68E-09	3.24E-08	1.42E-11	0.00E+00	4.01E-08	1.05E-09	4.43E-09	2.12E-12	0.00E+00	5.49E-09	6.46E-10	2.04E-09	4.92E-13	0.00E+00	2.68E-09
5293	420987.83	3733761.11	7.77E-09	3.28E-08	1.44E-11	0.00E+00	4.06E-08	1.07E-09	4.49E-09	2.14E-12	0.00E+00	5.55E-09	6.54E-10	2.06E-09	4.98E-13	0.00E+00	2.72E-09
5294	421003.58	3733770.66	7.95E-09	3.36E-08	1.47E-11	0.00E+00	4.15E-08	1.09E-09	4.59E-09	2.19E-12	0.00E+00	5.68E-09	6.69E-10	2.11E-09	5.09E-13	0.00E+00	2.78E-09
5295	421011.46	3733775.43	8.05E-09	3.40E-08	1.49E-11	0.00E+00	4.20E-08	1.10E-09	4.65E-09	2.22E-12	0.00E+00	5.75E-09	6.77E-10	2.14E-09	5.15E-13	0.00E+00	2.81E-09
5296	421019.34	3733780.2	8.14E-09	3.44E-08	1.51E-11	0.00E+00	4.25E-08	1.12E-09	4.70E-09	2.25E-12	0.00E+00	5.82E-09	6.85E-10	2.16E-09	5.21E-13	0.00E+00	2.85E-09
5297	421027.21	3733784.97	8.23E-09	3.48E-08	1.53E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.89E-09	6.93E-10	2.19E-09	5.28E-13	0.00E+00	2.88E-09
5298	421035.09	3733789.75	8.33E-09	3.52E-08	1.54E-11	0.00E+00	4.35E-08	1.14E-09	4.81E-09	2.30E-12	0.00E+00	5.95E-09	7.01E-10	2.21E-09	5.33E-13	0.00E+00	2.91E-09
5299	421042.97	3733794.52	8.42E-09	3.56E-08	1.56E-11	0.00E+00	4.40E-08	1.15E-09	4.86E-09	2.32E-12	0.00E+00	6.02E-09	7.09E-10	2.24E-09	5.40E-13	0.00E+00	2.94E-09
5300	421050.84	3733799.29	8.52E-09	3.60E-08	1.58E-11	0.00E+00	4.45E-08	1.17E-09	4.92E-09	2.35E-12	0.00E+00	6.09E-09	7.17E-10	2.26E-09	5.46E-13	0.00E+00	2.98E-09
5301	421058.72	3733804.06	8.61E-09	3.64E-08	1.60E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.38E-12	0.00E+00	6.16E-09	7.25E-10	2.29E-09	5.52E-13	0.00E+00	3.01E-09
5302	421066.6	3733808.84	8.71E-09	3.68E-08	1.61E-11	0.00E+00	4.55E-08	1.19E-09	5.03E-09	2.40E-12	0.00E+00	6.22E-09	7.33E-10	2.31E-09	5.58E-13	0.00E+00	3.04E-09
5303	421074.47	3733813.61	8.80E-09	3.72E-08	1.63E-11	0.00E+00	4.60E-08	1.21E-09	5.08E-09	2.43E-12	0.00E+00	6.29E-09	7.40E-10	2.34E-09	5.64E-13	0.00E+00	3.08E-09
5304	421082.35	3733818.38	8.89E-09	3.76E-08	1.65E-11	0.00E+00	4.65E-08	1.22E-09	5.14E-09	2.45E-12	0.00E+00	6.36E-09	7.48E-10	2.36E-09	5.70E-13	0.00E+00	3.11E-09
5305	421090.23	3733823.15	8.99E-09	3.79E-08	1.67E-11	0.00E+00	4.70E-08	1.23E-09	5.19E-09	2.48E-12	0.00E+00	6.42E-09	7.56E-10	2.38E-09	5.76E-13	0.00E+00	3.14E-09
5306	421098.1	3733827.93	9.08E-09	3.83E-08	1.68E-11	0.00E+00	4.74E-08	1.24E-09	5.24E-09	2.51E-12	0.00E+00	6.49E-09	7.64E-10	2.41E-09	5.82E-13	0.00E+00	3.17E-09
5307	421105.98	3733832.7	9.17E-09	3.87E-08	1.70E-11	0.00E+00	4.79E-08	1.26E-09	5.29E-09	2.53E-12	0.00E+00	6.55E-09	7.71E-10	2.43E-09	5.87E-13	0.00E+00	3.21E-09
5308	421113.86	3733837.47	9.26E-09	3.91E-08	1.72E-11	0.00E+00	4.84E-08	1.27E-09	5.35E-09	2.56E-12	0.00E+00	6.62E-09	7.79E-10	2.46E-09	5.93E-13	0.00E+00	3.24E-09
5309	421121.73	3733842.24	9.34E-09	3.94E-08	1.73E-11	0.00E+00	4.88E-08	1.28E-09	5.39E-09	2.58E-12	0.00E+00	6.68E-09	7.86E-10	2.48E-09	5.98E-13	0.00E+00	3.27E-09
5310	421129.61	3733847.02	9.43E-09	3.98E-08	1.75E-11	0.00E+00	4.92E-08	1.29E-09	5.44E-09	2.60E-12	0.00E+00	6.74E-09	7.93E-10	2.50E-09	6.04E-13	0.00E+00	3.30E-09
5311	421137.48	3733851.79	9.51E-09	4.01E-08	1.76E-11	0.00E+00	4.97E-08	1.30E-09	5.49E-09	2.62E-12	0.00E+00	6.79E-09	8.00E-10	2.52E-09	6.09E-13	0.00E+00	3.32E-09
5312	421145.36	3733856.56	9.58E-09	4.05E-08	1.78E-11	0.00E+00	5.01E-08	1.31E-09	5.53E-09	2.64E-12	0.00E+00	6.85E-09	8.06E-10	2.54E-09	6.14E-13	0.00E+00	3.35E-09
5313	421153.24	3733861.33	9.66E-09	4.08E-08	1.79E-11	0.00E+00	5.05E-08	1.32E-09	5.58E-09	2.66E-12	0.00E+00	6.90E-09	8.12E-10	2.56E-09	6.19E-13	0.00E+00	3.38E-09
5314	421161.11	3733866.11	9.72E-09	4.11E-08	1.80E-11	0.00E+00	5.08E-08	1.33E-09	5.61E-09	2.68E-12	0.00E+00	6.95E-09	8.18E-10	2.58E-09	6.23E-13	0.00E+00	3.40E-09
5315	421168.99	3733870.88	9.79E-09	4.13E-08	1.81E-11	0.00E+00	5.11E-08	1.34E-09	5.65E-09	2.70E-12	0.00E+00	7.00E-09	8.23E-10	2.60E-09	6.27E-13	0.00E+00	3.42E-09
5316	421176.87	3733875.65	9.84E-09	4.16E-08	1.82E-11	0.00E+00	5.14E-08	1.35E-09	5.68E-09	2.72E-12	0.00E+00	7.04E-09	8.28E-10	2.61E-09	6.31E-13	0.00E+00	3.44E-09
5317	421184.74	3733880.42	9.90E-09	4.18E-08	1.83E-11	0.00E+00	5.17E-08	1.36E-09	5.71E-09	2.73E-12	0.00E+00	7.07E-09	8.33E-10	2.63E-09	6.34E-13	0.00E+00	3.46E-09
5318	421192.62	3733885.2	9.95E-09	4.20E-08	1.84E-11	0.00E+00	5.20E-08	1.36E-09	5.74E-09	2.74E-12	0.00E+00	7.11E-09	8.37E-10	2.64E-09	6.37E-13	0.00E+00	3.48E-09
5319	421200.5	3733889.97	9.99E-09	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.77E-09	2.76E-12	0.00E+00	7.14E-09	8.41E-10	2.65E-09	6.40E-13	0.00E+00	3.49E-09
5320	421208.37	3733894.74	1.00E-08	4.24E-08	1.86E-11	0.00E+00	5.24E-08	1.38E-09	5.79E-09	2.77E-12	0.00E+00	7.17E-09	8.44E-10	2.66E-09	6.43E-13	0.00E+00	3.51E-09
5321	421216.25	3733899.51	1.01E-08	4.25E-08	1.87E-11	0.00E+00	5.26E-08	1.38E-09	5.81E-09	2.78E-12	0.00E+00	7.19E-09	8.47E-10	2.67E-09	6.45E-13	0.00E+00	3.52E-09
5322	421255.23	3733990.97	1.18E-08	4.98E-08	2.19E-11	0.00E+00	6.16E-08	1.62E-09	6.81E-09	3.25E-12	0.00E+00	8.43E-09	9.92E-10	3.13E-09	7.56E-13	0.00E+00	4.12E-09
5323	421258.34	3733999.64	1.20E-08	5.05E-08	2.22E-11	0.00E+00	6.25E-08	1.64E-09	6.90E-09	3.30E-12	0.00E+00	8.55E-09	1.01E-09	3.17E-09	7.66E-13	0.00E+00	4.18E-09
5324	421261.45	3734008.31	1.21E-08	5.12E-08	2.25E-11	0.00E+00	6.33E-08	1.66E-09	7.00E-09	3.34E-12	0.00E+00	8.66E-09	1.02E-09	3.22E-09	7.76E-13	0.00E+00	4.24E-09
5325	421264.56	3734016.98	1.23E-08	5.18E-08	2.27E-11	0.00E+00	6.41E-08	1.68E-09	7.09E-09	3.39E-12	0.00E+00	8.77E-09	1.03E-09	3.26E-09	7.86E-13	0.00E+00	4.29E-09
5326	421267.67	3734025.65	1.24E-08	5.25E-08	2.30E-11	0.00E+00	6.49E-08	1.70E-09	7.17E-09	3.43E-12	0.00E+00	8.88E-09	1.05E-09	3.30E-09	7.96E-13	0.00E+00	4.34E-09
5327	421270.78	3734034.31	1.26E-08	5.31E-08	2.33E-11	0.00E+00	6.57E-08	1.72E-09	7.26E-09	3.47E-12	0.00E+00	8.99E-09	1.06E-09	3.34E-09	8.06E-13	0.00E+00	4.40E-09
5328	421273.89	3734042.98	1.27E-08	5.37E-08	2.36E-11	0.00E+00	6.65E-08	1.74E-09	7.35E-09	3.51E-12	0.00E+00	9.10E-09	1.07E-09	3.38E-09	8.15E-13	0.00E+00	4.45E-09
5329	421277	3734051.65	1.29E-08	5.44E-08	2.39E-11	0.00E+00	6.73E-08	1.77E-09	7.44E-09	3.55E-12	0.00E+00	9.21E-09	1.08E-09	3.42E-09	8.25E-13	0.00E+00	4.50E-09
5330	421280.11	3734060.32	1.30E-08	5.50E-08	2.41E-11	0.00E+00	6.81E-08	1.79E-09	7.52E-09	3.60E-12	0.00E+00	9.31E-09	1.10E-09	3.46E-09	8.35E-13	0.00E+00	4.56E-09
5331	421283.22	3734068.99	1.32E-08	5.56E-08	2.44E-11	0.00E+00	6.88E-08	1.81E-09	7.61E-09	3.64E-12	0.00E+00	9.42E-09	1.11E-09	3.50E-09	8.44E-13	0.00E+00	4.61E-09
5332	421286.33	3734077.66	1.33E-08	5.63E-08	2.47E-11	0.00E+00	6.96E-08	1.83E-09	7.69E-09	3.68E-12	0.00E+00	9.52E-09	1.12E-09	3.54E-09	8.54E-13	0.00E+00	4.66E-09

5333	421289.44	3734086.33	1.35E-08	5.69E-08	2.50E-11	0.00E+00	7.04E-08	1.85E-09	7.78E-09	3.72E-12	0.00E+00	9.63E-09	1.13E-09	3.58E-09	8.63E-13	0.00E+00	4.71E-09
5334	421292.55	3734094.99	1.36E-08	5.74E-08	2.52E-11	0.00E+00	7.11E-08	1.86E-09	7.85E-09	3.75E-12	0.00E+00	9.72E-09	1.14E-09	3.61E-09	8.71E-13	0.00E+00	4.75E-09
5335	421295.66	3734103.66	1.38E-08	5.81E-08	2.55E-11	0.00E+00	7.19E-08	1.89E-09	7.94E-09	3.80E-12	0.00E+00	9.83E-09	1.16E-09	3.65E-09	8.81E-13	0.00E+00	4.81E-09
5336	421298.77	3734112.33	1.39E-08	5.88E-08	2.58E-11	0.00E+00	7.28E-08	1.91E-09	8.04E-09	3.84E-12	0.00E+00	9.96E-09	1.17E-09	3.70E-09	8.92E-13	0.00E+00	4.87E-09
5337	421301.88	3734121	1.41E-08	5.95E-08	2.61E-11	0.00E+00	7.36E-08	1.93E-09	8.13E-09	3.89E-12	0.00E+00	1.01E-08	1.19E-09	3.74E-09	9.02E-13	0.00E+00	4.92E-09
5338	421304.99	3734129.67	1.42E-08	6.02E-08	2.64E-11	0.00E+00	7.44E-08	1.95E-09	8.23E-09	3.93E-12	0.00E+00	1.02E-08	1.20E-09	3.78E-09	9.13E-13	0.00E+00	4.98E-09
5339	421308.1	3734138.34	1.44E-08	6.09E-08	2.67E-11	0.00E+00	7.53E-08	1.98E-09	8.32E-09	3.98E-12	0.00E+00	1.03E-08	1.21E-09	3.83E-09	9.23E-13	0.00E+00	5.04E-09
5340	421311.21	3734147	1.46E-08	6.16E-08	2.70E-11	0.00E+00	7.62E-08	2.00E-09	8.42E-09	4.03E-12	0.00E+00	1.04E-08	1.23E-09	3.87E-09	9.34E-13	0.00E+00	5.10E-09
5341	421314.32	3734155.67	1.48E-08	6.23E-08	2.74E-11	0.00E+00	7.71E-08	2.02E-09	8.53E-09	4.07E-12	0.00E+00	1.06E-08	1.24E-09	3.92E-09	9.46E-13	0.00E+00	5.16E-09
5342	421317.43	3734164.34	1.50E-08	6.31E-08	2.77E-11	0.00E+00	7.81E-08	2.05E-09	8.63E-09	4.13E-12	0.00E+00	1.07E-08	1.26E-09	3.97E-09	9.58E-13	0.00E+00	5.23E-09
5343	421320.54	3734173.01	1.51E-08	6.40E-08	2.81E-11	0.00E+00	7.91E-08	2.08E-09	8.75E-09	4.18E-12	0.00E+00	1.08E-08	1.27E-09	4.02E-09	9.70E-13	0.00E+00	5.29E-09
5344	421323.65	3734181.68	1.54E-08	6.48E-08	2.84E-11	0.00E+00	8.02E-08	2.10E-09	8.86E-09	4.24E-12	0.00E+00	1.10E-08	1.29E-09	4.07E-09	9.83E-13	0.00E+00	5.37E-09
5345	421326.76	3734190.35	1.56E-08	6.57E-08	2.88E-11	0.00E+00	8.13E-08	2.13E-09	8.99E-09	4.30E-12	0.00E+00	1.11E-08	1.31E-09	4.13E-09	9.97E-13	0.00E+00	5.44E-09
5346	421329.87	3734199.02	1.58E-08	6.67E-08	2.93E-11	0.00E+00	8.25E-08	2.16E-09	9.12E-09	4.36E-12	0.00E+00	1.13E-08	1.33E-09	4.19E-09	1.01E-12	0.00E+00	5.52E-09
5347	421332.98	3734207.68	1.60E-08	6.77E-08	2.97E-11	0.00E+00	8.37E-08	2.20E-09	9.26E-09	4.42E-12	0.00E+00	1.15E-08	1.35E-09	4.25E-09	1.03E-12	0.00E+00	5.60E-09
5348	421336.09	3734216.35	1.63E-08	6.87E-08	3.02E-11	0.00E+00	8.51E-08	2.23E-09	9.40E-09	4.49E-12	0.00E+00	1.16E-08	1.37E-09	4.32E-09	1.04E-12	0.00E+00	5.69E-09
5349	421339.2	3734225.02	1.65E-08	6.98E-08	3.06E-11	0.00E+00	8.64E-08	2.27E-09	9.55E-09	4.56E-12	0.00E+00	1.18E-08	1.39E-09	4.39E-09	1.06E-12	0.00E+00	5.78E-09
5350	421342.31	3734233.69	1.68E-08	7.10E-08	3.12E-11	0.00E+00	8.79E-08	2.31E-09	9.71E-09	4.64E-12	0.00E+00	1.20E-08	1.42E-09	4.46E-09	1.08E-12	0.00E+00	5.88E-09
5351	421345.42	3734242.36	1.71E-08	7.23E-08	3.17E-11	0.00E+00	8.94E-08	2.35E-09	9.88E-09	4.72E-12	0.00E+00	1.22E-08	1.44E-09	4.54E-09	1.10E-12	0.00E+00	5.98E-09
5352	421360.98	3734285.7	1.88E-08	7.92E-08	3.48E-11	0.00E+00	9.80E-08	2.57E-09	1.08E-08	5.18E-12	0.00E+00	1.34E-08	1.58E-09	4.98E-09	1.20E-12	0.00E+00	6.56E-09
5353	420869.68	3733689.52	6.47E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.87E-10	3.74E-09	1.79E-12	0.00E+00	4.62E-09	5.44E-10	1.72E-09	4.14E-13	0.00E+00	2.26E-09
5354	420860.64	3733687.65	6.43E-09	2.71E-08	1.19E-11	0.00E+00	3.36E-08	8.81E-10	3.71E-09	1.77E-12	0.00E+00	4.59E-09	5.41E-10	1.71E-09	4.12E-13	0.00E+00	2.25E-09
5355	420851.6	3733685.78	6.39E-09	2.70E-08	1.18E-11	0.00E+00	3.34E-08	8.75E-10	3.69E-09	1.76E-12	0.00E+00	4.56E-09	5.37E-10	1.69E-09	4.09E-13	0.00E+00	2.23E-09
5356	420909.23	3733669.4	6.20E-09	2.62E-08	1.15E-11	0.00E+00	3.24E-08	8.50E-10	3.58E-09	1.71E-12	0.00E+00	4.43E-09	5.22E-10	1.65E-09	3.97E-13	0.00E+00	2.17E-09
5357	420917.09	3733674.17	6.27E-09	2.65E-08	1.16E-11	0.00E+00	3.28E-08	8.60E-10	3.62E-09	1.73E-12	0.00E+00	4.48E-09	5.28E-10	1.66E-09	4.02E-13	0.00E+00	2.19E-09
5358	420924.95	3733678.93	6.35E-09	2.68E-08	1.18E-11	0.00E+00	3.32E-08	8.70E-10	3.66E-09	1.75E-12	0.00E+00	4.54E-09	5.34E-10	1.68E-09	4.06E-13	0.00E+00	2.22E-09
5359	420932.81	3733683.69	6.42E-09	2.71E-08	1.19E-11	0.00E+00	3.35E-08	8.80E-10	3.71E-09	1.77E-12	0.00E+00	4.59E-09	5.40E-10	1.70E-09	4.11E-13	0.00E+00	2.24E-09
5360	420940.67	3733688.46	6.49E-09	2.74E-08	1.20E-11	0.00E+00	3.39E-08	8.90E-10	3.75E-09	1.79E-12	0.00E+00	4.64E-09	5.46E-10	1.72E-09	4.16E-13	0.00E+00	2.27E-09
5361	420972.11	3733707.51	6.79E-09	2.87E-08	1.26E-11	0.00E+00	3.55E-08	9.31E-10	3.92E-09	1.87E-12	0.00E+00	4.85E-09	5.71E-10	1.80E-09	4.35E-13	0.00E+00	2.37E-09
5362	420979.97	3733712.27	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.41E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
5363	420987.84	3733717.03	6.95E-09	2.93E-08	1.29E-11	0.00E+00	3.63E-08	9.52E-10	4.01E-09	1.92E-12	0.00E+00	4.96E-09	5.84E-10	1.84E-09	4.45E-13	0.00E+00	2.43E-09
5364	420995.7	3733721.8	7.02E-09	2.97E-08	1.30E-11	0.00E+00	3.67E-08	9.63E-10	4.05E-09	1.94E-12	0.00E+00	5.02E-09	5.91E-10	1.86E-09	4.50E-13	0.00E+00	2.45E-09
5365	421003.56	3733726.56	7.10E-09	3.00E-08	1.32E-11	0.00E+00	3.71E-08	9.73E-10	4.10E-09	1.96E-12	0.00E+00	5.08E-09	5.97E-10	1.88E-09	4.55E-13	0.00E+00	2.48E-09
5366	421027.14	3733740.85	7.34E-09	3.10E-08	1.36E-11	0.00E+00	3.83E-08	1.01E-09	4.24E-09	2.02E-12	0.00E+00	5.24E-09	6.17E-10	1.95E-09	4.70E-13	0.00E+00	2.57E-09
5367	421035	3733745.61	7.42E-09	3.13E-08	1.37E-11	0.00E+00	3.87E-08	1.02E-09	4.28E-09	2.05E-12	0.00E+00	5.30E-09	6.24E-10	1.97E-09	4.75E-13	0.00E+00	2.59E-09
5368	421042.86	3733750.37	7.50E-09	3.17E-08	1.39E-11	0.00E+00	3.92E-08	1.03E-09	4.33E-09	2.07E-12	0.00E+00	5.36E-09	6.31E-10	1.99E-09	4.80E-13	0.00E+00	2.62E-09
5369	421050.72	3733755.14	7.58E-09	3.20E-08	1.40E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.86E-13	0.00E+00	2.65E-09
5370	421058.58	3733759.9	7.66E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.48E-09	6.45E-10	2.03E-09	4.91E-13	0.00E+00	2.68E-09
5371	421066.44	3733764.66	7.74E-09	3.27E-08	1.43E-11	0.00E+00	4.05E-08	1.06E-09	4.47E-09	2.14E-12	0.00E+00	5.53E-09	6.51E-10	2.05E-09	4.96E-13	0.00E+00	2.71E-09
5372	421074.3	3733769.43	7.83E-09	3.30E-08	1.45E-11	0.00E+00	4.09E-08	1.07E-09	4.52E-09	2.16E-12	0.00E+00	5.59E-09	6.58E-10	2.08E-09	5.01E-13	0.00E+00	2.74E-09
5373	421082.16	3733774.19	7.91E-09	3.34E-08	1.47E-11	0.00E+00	4.13E-08	1.08E-09	4.57E-09	2.18E-12	0.00E+00	5.65E-09	6.65E-10	2.10E-09	5.07E-13	0.00E+00	2.76E-09
5374	421090.02	3733778.95	7.99E-09	3.37E-08	1.48E-11	0.00E+00	4.17E-08	1.09E-09	4.61E-09	2.20E-12	0.00E+00	5.71E-09	6.72E-10	2.12E-09	5.12E-13	0.00E+00	2.79E-09
5375	421097.88	3733783.71	8.07E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.66E-09	2.23E-12	0.00E+00	5.77E-09	6.79E-10	2.14E-09	5.17E-13	0.00E+00	2.82E-09
5376	421105.74	3733788.48	8.15E-09	3.44E-08	1.51E-11	0.00E+00	4.26E-08	1.12E-09	4.71E-09	2.25E-12	0.00E+00	5.83E-09	6.86E-10	2.16E-09	5.22E-13	0.00E+00	2.85E-09
5377	421113.61	3733793.24	8.23E-09	3.48E-08	1.53E-11	0.00E+00	4.30E-08	1.13E-09	4.75E-09	2.27E-12	0.00E+00	5.88E-09	6.93E-10	2.18E-09	5.27E-13	0.00E+00	2.88E-09
5378	421121.47	3733798	8.31E-09	3.51E-08	1.54E-11	0.00E+00	4.34E-08	1.14E-09	4.80E-09	2.29E-12	0.00E+00	5.94E-09	6.99E-10	2.21E-09	5.32E-13	0.00E+00	2.91E-09
5379	421129.33	3733802.77	8.39E-09	3.54E-08	1.55E-11	0.00E+00	4.38E-08	1.15E-09	4.84E-09	2.31E-12	0.00E+00	5.99E-09	7.06E-10	2.23E-09	5.37E-13	0.00E+00	2.93E-09
5380	421137.19	3733807.53	8.46E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.89E-09	2.34E-12	0.00E+00	6.05E-09	7.12E-10	2.25E-09	5.42E-13	0.00E+00	2.96E-09
5381	421145.05	3733812.29	8.53E-09	3.60E-08	1.58E-11	0.00E+00	4.46E-08	1.17E-09	4.93E-09	2.35E-12	0.00E+00	6.10E-09	7.18E-10	2.26E-09	5.47E-13	0.00E+00	2.98E-09
5382	421152.91	3733817.05	8.61E-09	3.63E-08	1.59E-11	0.00E+00	4.50E-08	1.18E-09	4.97E-09	2.37E-12	0.00E+00	6.15E-09	7.24E-10	2.28E-09	5.51E-13	0.00E+00	3.01E-09
5383	421160.77	3733821.82	8.67E-09	3.66E-08	1.61E-11	0.00E+00	4.53E-08	1.19E-09	5.01E-09	2.39E-12	0.00E+00	6.20E-09	7.30E-10	2.30E-09	5.56E-13	0.00E+00	3.03E-09
5384	421168.63	3733826.58	8.74E-09	3.69E-08	1.62E-11	0.00E+00	4.57E-08	1.20E-09	5.05E-09	2.41E-12	0.00E+00	6.25E-09	7.35E-10	2.32E-09	5.60E-13	0.00E+00	3.06E-09
5385	421176.49	3733831.34	8.80E-09	3.72E-08	1.63E-11	0.00E+00	4.60E-08	1.21E-09	5.08E-09	2.43E-12	0.00E+00	6.29E-09	7.40E-10	2.34E-09	5.64E-13	0.00E+00	3.08E-09
5386	421184.35	3733836.11	8.86E-09	3.74E-08	1.64E-11	0.00E+00	4.63E-08	1.22E-09	5.12E-09	2.45E-12	0.00E+00	6.34E-09	7.46E-10	2.35E-09	5.68E-13	0.00E+00	3.10E-09
5387	421192.21	3733840.87	8.92E-09	3.77E-08	1.65E-11	0.00E+00	4.66E-08	1.22E-09	5.15E-09	2.46E-12	0.00E+00	6.37E-09	7.50E-10	2.37E-09	5.71E-13	0.00E+00	3.12E-09
5388	421200.07	3733845.63	8.97E-09	3.79E-08	1.66E-11	0.00E+00	4.69E-08	1.23E-09	5.18E-09	2.48E-12	0.00E+00	6.41E-09	7.55E-10	2.38E-09	5.75E-13	0.00E+00	3.14E-09
5389	421207.93	3733850.39	9.02E-09	3.81E-08	1.67E-11	0.00E+00	4.71E-08	1.24E-09	5.21E-09	2.49E-12	0.00E+00	6.45E-09	7.59E-10	2.39E-09	5.78E-13	0.00E+00	3.15E-09
5390	421215.79	3733855.16	9.07E-09	3.83E-08	1.68E-11	0.00E+00	4.74E-08	1.24E-09	5.23E-09	2.50E-12	0.00E+00	6.48E-09	7.63E-10	2.41E-09	5.81E-13	0.00E+00	3.17E-09
5391	421264.41	3733904.92	9.65E-09	4.08E-08	1.79E-11	0.00E+00	5.04E-08	1.32E-09	5.57E-09	2.66E-12	0.00E+00	6.90E-09	8.12E-10	2.56E-09	6.18E-13	0.00E+00	3.37E-09
5392	421267.51	3733913.58	9.79E-09	4.14E-08	1.81E-11	0.00E+00	5.12E-08	1.34E-09	5.66E-09	2.70E-12	0.00E+00	7.00E-09	8.24E-10	2.60E-09	6.27E-13	0.00E+00	3.42E-09
5393	421270.62	3733922.23	9.94E-09	4.20E-08	1.84E-11	0.00E+00	5.19E-08	1.36E-09	5.74E-09	2.74E-12	0.00E+00	7.10E-09	8.36E-10	2.64E-09	6.37E-13	0.00E+00	3.47E-09
5394	421286.14	3733965.48	1.06E-08	4.49E-08	1.97E-11	0.00E+00	5.56E-08	1.46E-09	6.14E-09	2.94E-12	0.00E+00	7.60E-09	8.95E-10	2.82E-09	6.82E-13	0.00E+00	3.72E-09
5395	421289.24	3733974.13	1.08E-08	4.55E-08	2.00E-11	0.00E+00	5.63E-08	1.48E-09	6.22E-09	2.97E-12	0.00E+00	7.70E-09	9.06E-10	2.86E-09	6.90E-13	0.00E+00	3.77E-09
5396	421292.34	3733982.78	1.09E-08	4.61E-08	2.02E-11	0.00E+00	5.70E-08	1.50E-09	6.30E-09	3.01E-12	0.00E+00	7.80E-09	9.18E-10	2.89E-09	6.99E-13	0.00E+00	3.81E-09
5397	421295.45	3733991.43	1.10E-08	4.66E-08	2.05E-11	0.00E+00	5.77E-08	1.51E-09	6.37E-09	3.05E-12	0.00E+00	7.89E-09	9.29E-10	2.93E-09	7.07E-13	0.00E+00	3.86E-09
5398	421298.55	3734000.09	1.12E-08	4.72E-08	2.07E-11	0.00E+00	5.83E-08	1.53E-09	6.45E-09	3.08E-12	0.00E+00	7.98E-09	9.40E-10	2.96E-09	7.15E-13	0.00E+00	3.90E-09
5399	421301.66	3734008.74	1.13E-08	4.77E-08	2.09E-11	0.00E+00	5.90E-08	1.55E-09	6.52E-09	3.12E-12	0.00E+00	8.07E-09	9.50E-10	3.00E-09	7.24E-13	0.00E+00	3.95E-09
5400	421304.76	3734017.39	1.14E-08	4.82E-08	2.12E-11	0.00E+00	5.97E-08	1.57E-09	6.59E-09	3.15E-12	0.00E+00	8.16E-09	9.61E-10	3.03E-09	7.32E-13	0.00E+00	3.99E-09
5401	421307.86	3734026.04	1.15E-08	4.87E-08	2.14E-11	0.00E+00	6.03E-08	1.58E-09	6.66E-09	3.19E-12	0.00E+00	8.25E-09	9.71E-10	3.06E-09	7.39E-13	0.00E+00	4.04E-09
5402	421310.97	3734034.69	1.17E-08	4.93E-08	2.16E-11	0.00E+00	6.10E-08	1.60E-09	6.74E-09	3.22E-12	0.00E+00	8.34E-09	9.82E-10	3.10E-09	7.47E-13	0.00E+00	4.08E-09
5403	421314.07	3734043.34	1.18E-08	4.98E-08	2.18E-11	0.00E+00	6.16E-08	1.62E-09	6.81E-09	3.25E-12	0.00E+00	8.42E-09	9.92E-10	3.13E-09	7.55E-13	0.00E+00	4.12E-09
5404	421317.18	3734051.99	1.19E-08	5.03E-08	2.21E-11	0.00E+00	6.22E-08	1.63E-09	6.88E-09	3.29E-12	0.00E+00	8.51E-09	1.00E-09	3.16E-09	7.63E-13	0.00E+00	4.16E-09
5405	421320.28	3734060.64	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.29E-08	1.65E-09	6.95E-09	3.32E-12	0.00E+00	8.60E-09	1.01E-09	3.19E-09	7.71E-13	0.00E+00	4.21E-09
5406	421323.38	3734069.29	1.22E-08	5.13E-08	2.25E-11	0.00E+00	6.35E-08	1.67E-09	7.02E-09	3.35E-12	0.00E+00	8.69E-09	1.02E-09	3.23E-09	7.79E-13	0.00E+00	4.25E-09
5407	421326.49	3734077.95	1.23E-08	5.18E-08	2.27E-11	0.00E+00	6.41E-08	1.68E-09	7.09E-09	3.39E-12	0.00E+00	8.77E-09	1.03E-09	3.26E-09	7.86E-13	0.00E+00	4.29E-09
5408	421329.59	3734086.6	1.24E-08	5.23E-08	2.30E-11	0.00E+00	6.48E-08	1.70E-09	7.16E-09	3.42E-12	0.00E+00	8.86E-09	1.04E-09	3.29E-09	7.94E-13	0.00E+00	4.33E-09
5409	421332.7	3734095.25	1.25E-08	5.29E-08	2.32E-11	0.00E+00	6.54E-08	1.72E-09	7.23E-09	3.45E-12	0.00E+00	8.95E-09	1.05E-09	3.32E-09	8.02E-13	0.00E+00	4.38E-09
5410	421335.8	3734103.9	1.26E-08	5.34E-08	2.34E-11	0.00E+00	6.61E-08	1.73E-09	7.30E-09	3.49E-12	0.00E+00	9.04E-09	1.06E-09	3.36E-09	8.10E-13	0.00E+00	4.42E-09
5411	421338.9	3734112.55	1.28E-08	5.40E-08	2.37E-11	0.00E+00	6.68E-08	1.75E-09	7.38E-09	3.53E-12	0.00E+00	9.13E-09	1.08E-09	3.39E-09	8.19E-13	0.00E+00	4.47E-09
5412	421342.01	3734121.2	1.29E-08	5.45E-08	2.39E-11	0.00E+00	6.75E-08	1.77E-09	7.46E-09	3.56E-12	0.00E+00	9.23E-09	1.09E-09	3.43E-09	8.27E-13	0.00E+00	4.51E-09
5413	421345.11	3734129.85	1.31E-08	5.51E-08	2.42E-11	0.00E+00	6.82E-08	1.79E-09	7.54E-09	3.60E-12	0.00E+00	9.33E-09	1.10E-09	3.47E-09	8.37E-13	0.00E+00	4.56E-09
5414	421348.21	3734138.5	1.32E-08	5.57E-08	2.45E-11	0.00E+00	6.90E-08	1.81E-09	7.62E-09	3.64E-12	0.00E+00	9.43E-09	1.11E-09	3.50E-09	8.46E-13	0.00E+00	4.61E-09
5415	421351.32	3734147.15	1.33E-08	5.64E-08	2.47E-11	0.00E+00	6.97E-08	1.83E-09	7.71E-09	3.68E-12	0.00E+00	9.54E-09	1.12E-09	3.54E-09	8.55E-13	0.00E+00	4.67E-09
5416	421354.42	3734155.8	1.35E-08	5.70E-08	2.50E-11	0.00E+00	7.05E-08	1.85E-09	7.80E-09	3.73E-12	0.00E+00	9.65E-09	1.14E-09	3.58E-09	8.65E-13	0.00E+00	4.72E-09
5417	421357.53	3734164.46	1.37E-08	5.77E-08	2.53E-11	0.00E+00	7.14E-08	1.87E-09	7.89E-09	3.77E-12	0.00E+00	9.77E-09	1.15E-09	3.63E-09	8.75E-13	0.00E+00	4.78E-09
5418	421360.63	3734173.11	1.38E-08	5.84E-08	2.56E-11	0.00E+00	7.23E-08	1.90E-09	7.99E-09	3.82E-12	0.00E+00	9.89E-09	1.16E-09	3.67E-09	8.86E-13	0.00E+00	4.84E-09
5419	421363.73	3734181.76	1.40E-08	5.92E-08	2.60E-11	0.00E+00	7.32E-08	1.92E-09	8.09E-09	3.87E-12	0.00E+00	1.00E-08	1.18E-09	3.72E-09	8.98E-13	0.00E+00	4.90E-09
5420	421366.84	3734190.41	1.42E-08	6.00E-08	2.63E-11	0.00E+00	7.42E-08	1.95E-09	8.20E-09	3.92E-12	0.00E+00	1.01E-08	1.19E-09	3.77E-09	9.10E-13	0.00E+00	4.96E-09
5421	421369.94	3734199.06	1.44E-08	6.08E-08	2.67E-11	0.00E+00	7.52E-08	1.97E-09	8.31E-09	3.97E-12	0.00E+00	1.03E-08	1.21E-09	3.82E-09	9.22E-13	0.00E+00	5.03E-09
5422	421373.05	3734207.71	1.46E-08	6.16E-08	2.70E-11	0.00E+00	7.62E-08	2.00E-09	8.42E-09	4.03E-12	0.00E+00	1.04E-08	1.23E-09	3.87E-09	9.35E-13	0.00E+00	5.10E-09
5423	421376.15	3734216.36	1.48E-08	6.25E-08	2.74E-11	0.00E+00	7.73E-08	2.03E-09	8.55E-09	4.09E-12	0.00E+00	1.06E-08	1.25E-09	3.93E-09	9.48E-13	0.00E+00	5.17E-09
5424	421379.25	3734225.01	1.50E-08	6.34E-08	2.78E-11	0.00E+00	7.84E-08	2.06E-09	8.66E-09	4.14E-12	0.00E+00	1.07E-08	1.26E-09	3.98E-09	9.61E-13	0.00E+00	5.25E-09

5425	421382.36	3734233.66	1.52E-08	6.42E-08	2.82E-11	0.00E+00	7.95E-08	2.09E-09	8.78E-09	4.20E-12	0.00E+00	1.09E-08	1.28E-09	4.04E-09	9.75E-13	0.00E+00	5.32E-09
5426	421385.46	3734242.31	1.54E-08	6.51E-08	2.86E-11	0.00E+00	8.06E-08	2.12E-09	8.91E-09	4.26E-12	0.00E+00	1.10E-08	1.30E-09	4.09E-09	9.88E-13	0.00E+00	5.39E-09
5427	421400.98	3734285.57	1.69E-08	7.14E-08	3.13E-11	0.00E+00	8.84E-08	2.32E-09	9.77E-09	4.67E-12	0.00E+00	1.21E-08	1.42E-09	4.49E-09	1.08E-12	0.00E+00	5.91E-09
5428	420877.79	3733650.35	5.92E-09	2.50E-08	1.10E-11	0.00E+00	3.09E-08	8.11E-10	3.42E-09	1.63E-12	0.00E+00	4.23E-09	4.98E-10	1.57E-09	3.79E-13	0.00E+00	2.07E-09
5429	420868.75	3733648.48	5.88E-09	2.48E-08	1.09E-11	0.00E+00	3.07E-08	8.06E-10	3.40E-09	1.62E-12	0.00E+00	4.20E-09	4.95E-10	1.56E-09	3.77E-13	0.00E+00	2.06E-09
5430	420859.71	3733646.61	5.85E-09	2.47E-08	1.08E-11	0.00E+00	3.05E-08	8.02E-10	3.38E-09	1.61E-12	0.00E+00	4.18E-09	4.92E-10	1.55E-09	3.75E-13	0.00E+00	2.04E-09
5431	420893.74	3733615.94	5.51E-09	2.33E-08	1.02E-11	0.00E+00	2.88E-08	7.55E-10	3.18E-09	1.52E-12	0.00E+00	3.94E-09	4.63E-10	1.46E-09	3.53E-13	0.00E+00	1.93E-09
5432	420917.28	3733630.2	5.69E-09	2.40E-08	1.05E-11	0.00E+00	2.97E-08	7.80E-10	3.29E-09	1.57E-12	0.00E+00	4.07E-09	4.79E-10	1.51E-09	3.65E-13	0.00E+00	1.99E-09
5433	420925.12	3733634.95	5.75E-09	2.43E-08	1.07E-11	0.00E+00	3.01E-08	7.89E-10	3.32E-09	1.59E-12	0.00E+00	4.11E-09	4.84E-10	1.53E-09	3.69E-13	0.00E+00	2.01E-09
5434	420932.97	3733639.71	5.82E-09	2.46E-08	1.08E-11	0.00E+00	3.04E-08	7.97E-10	3.36E-09	1.61E-12	0.00E+00	4.16E-09	4.89E-10	1.54E-09	3.73E-13	0.00E+00	2.03E-09
5435	420940.82	3733644.46	5.88E-09	2.48E-08	1.09E-11	0.00E+00	3.07E-08	8.06E-10	3.39E-09	1.62E-12	0.00E+00	4.20E-09	4.95E-10	1.56E-09	3.77E-13	0.00E+00	2.05E-09
5436	420948.66	3733649.22	5.94E-09	2.51E-08	1.10E-11	0.00E+00	3.10E-08	8.14E-10	3.43E-09	1.64E-12	0.00E+00	4.25E-09	5.00E-10	1.58E-09	3.81E-13	0.00E+00	2.08E-09
5437	420956.51	3733653.97	6.01E-09	2.54E-08	1.11E-11	0.00E+00	3.14E-08	8.23E-10	3.47E-09	1.66E-12	0.00E+00	4.29E-09	5.05E-10	1.59E-09	3.85E-13	0.00E+00	2.10E-09
5438	420964.36	3733658.73	6.07E-09	2.56E-08	1.12E-11	0.00E+00	3.17E-08	8.32E-10	3.50E-09	1.67E-12	0.00E+00	4.34E-09	5.10E-10	1.61E-09	3.89E-13	0.00E+00	2.12E-09
5439	420995.74	3733677.74	6.33E-09	2.67E-08	1.17E-11	0.00E+00	3.31E-08	8.67E-10	3.65E-09	1.75E-12	0.00E+00	4.52E-09	5.32E-10	1.68E-09	4.05E-13	0.00E+00	2.21E-09
5440	421003.59	3733682.5	6.39E-09	2.70E-08	1.18E-11	0.00E+00	3.34E-08	8.76E-10	3.69E-09	1.76E-12	0.00E+00	4.57E-09	5.38E-10	1.70E-09	4.10E-13	0.00E+00	2.23E-09
5441	421011.43	3733687.25	6.46E-09	2.73E-08	1.20E-11	0.00E+00	3.38E-08	8.86E-10	3.73E-09	1.78E-12	0.00E+00	4.62E-09	5.44E-10	1.71E-09	4.14E-13	0.00E+00	2.26E-09
5442	421019.28	3733692.01	6.53E-09	2.76E-08	1.21E-11	0.00E+00	3.41E-08	8.95E-10	3.77E-09	1.80E-12	0.00E+00	4.67E-09	5.49E-10	1.73E-09	4.18E-13	0.00E+00	2.28E-09
5443	421027.13	3733696.76	6.60E-09	2.79E-08	1.22E-11	0.00E+00	3.45E-08	9.04E-10	3.81E-09	1.82E-12	0.00E+00	4.71E-09	5.55E-10	1.75E-09	4.23E-13	0.00E+00	2.31E-09
5444	421050.67	3733711.02	6.80E-09	2.87E-08	1.26E-11	0.00E+00	3.55E-08	9.32E-10	3.93E-09	1.88E-12	0.00E+00	4.86E-09	5.72E-10	1.81E-09	4.36E-13	0.00E+00	2.38E-09
5445	421058.51	3733715.78	6.87E-09	2.90E-08	1.27E-11	0.00E+00	3.59E-08	9.42E-10	3.97E-09	1.90E-12	0.00E+00	4.91E-09	5.78E-10	1.82E-09	4.40E-13	0.00E+00	2.40E-09
5446	421066.36	3733720.53	6.94E-09	2.93E-08	1.29E-11	0.00E+00	3.63E-08	9.52E-10	4.01E-09	1.92E-12	0.00E+00	4.96E-09	5.84E-10	1.84E-09	4.45E-13	0.00E+00	2.43E-09
5447	421074.21	3733725.29	7.02E-09	2.96E-08	1.30E-11	0.00E+00	3.66E-08	9.62E-10	4.05E-09	1.94E-12	0.00E+00	5.01E-09	5.90E-10	1.86E-09	4.49E-13	0.00E+00	2.45E-09
5448	421082.05	3733730.04	7.09E-09	2.99E-08	1.31E-11	0.00E+00	3.70E-08	9.72E-10	4.09E-09	1.96E-12	0.00E+00	5.07E-09	5.96E-10	1.88E-09	4.54E-13	0.00E+00	2.48E-09
5449	421089.9	3733734.8	7.16E-09	3.02E-08	1.33E-11	0.00E+00	3.74E-08	9.81E-10	4.13E-09	1.97E-12	0.00E+00	5.11E-09	6.02E-10	1.90E-09	4.58E-13	0.00E+00	2.50E-09
5450	421097.75	3733739.55	7.23E-09	3.05E-08	1.34E-11	0.00E+00	3.78E-08	9.91E-10	4.17E-09	1.99E-12	0.00E+00	5.17E-09	6.08E-10	1.92E-09	4.63E-13	0.00E+00	2.53E-09
5451	421105.59	3733744.31	7.30E-09	3.08E-08	1.35E-11	0.00E+00	3.81E-08	1.00E-09	4.22E-09	2.01E-12	0.00E+00	5.22E-09	6.14E-10	1.94E-09	4.68E-13	0.00E+00	2.55E-09
5452	421113.44	3733749.06	7.37E-09	3.11E-08	1.37E-11	0.00E+00	3.85E-08	1.01E-09	4.25E-09	2.03E-12	0.00E+00	5.27E-09	6.20E-10	1.96E-09	4.72E-13	0.00E+00	2.58E-09
5453	421121.29	3733753.81	7.44E-09	3.14E-08	1.38E-11	0.00E+00	3.89E-08	1.02E-09	4.30E-09	2.05E-12	0.00E+00	5.32E-09	6.26E-10	1.97E-09	4.77E-13	0.00E+00	2.60E-09
5454	421129.13	3733758.57	7.51E-09	3.17E-08	1.39E-11	0.00E+00	3.93E-08	1.03E-09	4.34E-09	2.07E-12	0.00E+00	5.37E-09	6.32E-10	1.99E-09	4.81E-13	0.00E+00	2.63E-09
5455	421136.98	3733763.32	7.58E-09	3.20E-08	1.40E-11	0.00E+00	3.96E-08	1.04E-09	4.38E-09	2.09E-12	0.00E+00	5.42E-09	6.38E-10	2.01E-09	4.86E-13	0.00E+00	2.65E-09
5456	421144.83	3733768.08	7.65E-09	3.23E-08	1.42E-11	0.00E+00	4.00E-08	1.05E-09	4.42E-09	2.11E-12	0.00E+00	5.47E-09	6.44E-10	2.03E-09	4.90E-13	0.00E+00	2.67E-09
5457	421152.67	3733772.83	7.72E-09	3.26E-08	1.43E-11	0.00E+00	4.03E-08	1.06E-09	4.46E-09	2.13E-12	0.00E+00	5.52E-09	6.49E-10	2.05E-09	4.95E-13	0.00E+00	2.70E-09
5458	421160.52	3733777.59	7.78E-09	3.29E-08	1.44E-11	0.00E+00	4.07E-08	1.07E-09	4.49E-09	2.15E-12	0.00E+00	5.56E-09	6.55E-10	2.07E-09	4.99E-13	0.00E+00	2.72E-09
5459	421168.37	3733782.34	7.85E-09	3.31E-08	1.45E-11	0.00E+00	4.10E-08	1.08E-09	4.53E-09	2.17E-12	0.00E+00	5.61E-09	6.60E-10	2.08E-09	5.03E-13	0.00E+00	2.74E-09
5460	421176.21	3733787.09	7.91E-09	3.34E-08	1.47E-11	0.00E+00	4.13E-08	1.08E-09	4.57E-09	2.18E-12	0.00E+00	5.65E-09	6.65E-10	2.10E-09	5.07E-13	0.00E+00	2.76E-09
5461	421184.06	3733791.85	7.97E-09	3.37E-08	1.48E-11	0.00E+00	4.16E-08	1.09E-09	4.60E-09	2.20E-12	0.00E+00	5.70E-09	6.71E-10	2.12E-09	5.11E-13	0.00E+00	2.79E-09
5462	421191.91	3733796.6	8.03E-09	3.39E-08	1.49E-11	0.00E+00	4.19E-08	1.10E-09	4.64E-09	2.22E-12	0.00E+00	5.74E-09	6.75E-10	2.13E-09	5.14E-13	0.00E+00	2.81E-09
5463	421199.75	3733801.36	8.08E-09	3.41E-08	1.50E-11	0.00E+00	4.22E-08	1.11E-09	4.67E-09	2.23E-12	0.00E+00	5.78E-09	6.80E-10	2.15E-09	5.18E-13	0.00E+00	2.83E-09
5464	421207.6	3733806.11	8.14E-09	3.44E-08	1.51E-11	0.00E+00	4.25E-08	1.12E-09	4.70E-09	2.24E-12	0.00E+00	5.81E-09	6.84E-10	2.16E-09	5.21E-13	0.00E+00	2.84E-09
5465	421215.45	3733810.87	8.19E-09	3.46E-08	1.52E-11	0.00E+00	4.28E-08	1.12E-09	4.73E-09	2.26E-12	0.00E+00	5.85E-09	6.89E-10	2.17E-09	5.24E-13	0.00E+00	2.86E-09
5466	421270.37	3733844.15	8.44E-09	3.56E-08	1.56E-11	0.00E+00	4.41E-08	1.16E-09	4.87E-09	2.33E-12	0.00E+00	6.03E-09	7.10E-10	2.24E-09	5.41E-13	0.00E+00	2.95E-09
5467	421278.22	3733848.9	8.46E-09	3.57E-08	1.57E-11	0.00E+00	4.42E-08	1.16E-09	4.88E-09	2.33E-12	0.00E+00	6.05E-09	7.12E-10	2.24E-09	5.42E-13	0.00E+00	2.96E-09
5468	421289.17	3733862.29	8.60E-09	3.63E-08	1.59E-11	0.00E+00	4.49E-08	1.18E-09	4.97E-09	2.37E-12	0.00E+00	6.15E-09	7.23E-10	2.28E-09	5.51E-13	0.00E+00	3.01E-09
5469	421292.26	3733870.93	8.72E-09	3.68E-08	1.62E-11	0.00E+00	4.56E-08	1.20E-09	5.03E-09	2.41E-12	0.00E+00	6.23E-09	7.34E-10	2.31E-09	5.59E-13	0.00E+00	3.05E-09
5470	421295.36	3733879.56	8.84E-09	3.73E-08	1.64E-11	0.00E+00	4.62E-08	1.21E-09	5.10E-09	2.44E-12	0.00E+00	6.32E-09	7.44E-10	2.35E-09	5.66E-13	0.00E+00	3.09E-09
5471	421298.46	3733888.2	8.96E-09	3.78E-08	1.66E-11	0.00E+00	4.68E-08	1.23E-09	5.17E-09	2.47E-12	0.00E+00	6.40E-09	7.54E-10	2.38E-09	5.74E-13	0.00E+00	3.13E-09
5472	421301.56	3733896.83	9.08E-09	3.83E-08	1.68E-11	0.00E+00	4.74E-08	1.24E-09	5.24E-09	2.51E-12	0.00E+00	6.49E-09	7.64E-10	2.41E-09	5.82E-13	0.00E+00	3.17E-09
5473	421304.66	3733905.47	9.20E-09	3.88E-08	1.70E-11	0.00E+00	4.80E-08	1.26E-09	5.31E-09	2.54E-12	0.00E+00	6.57E-09	7.74E-10	2.44E-09	5.89E-13	0.00E+00	3.21E-09
5474	421307.76	3733914.11	9.31E-09	3.93E-08	1.73E-11	0.00E+00	4.87E-08	1.28E-09	5.38E-09	2.57E-12	0.00E+00	6.66E-09	7.84E-10	2.47E-09	5.97E-13	0.00E+00	3.26E-09
5475	421310.85	3733922.74	9.43E-09	3.98E-08	1.75E-11	0.00E+00	4.92E-08	1.29E-09	5.44E-09	2.60E-12	0.00E+00	6.74E-09	7.93E-10	2.50E-09	6.04E-13	0.00E+00	3.30E-09
5476	421326.35	3733965.92	9.99E-09	4.22E-08	1.85E-11	0.00E+00	5.22E-08	1.37E-09	5.77E-09	2.76E-12	0.00E+00	7.14E-09	8.41E-10	2.65E-09	6.40E-13	0.00E+00	3.49E-09
5477	421329.44	3733974.56	1.01E-08	4.27E-08	1.87E-11	0.00E+00	5.28E-08	1.39E-09	5.83E-09	2.79E-12	0.00E+00	7.22E-09	8.50E-10	2.68E-09	6.47E-13	0.00E+00	3.53E-09
5478	421332.54	3733983.19	1.02E-08	4.31E-08	1.89E-11	0.00E+00	5.34E-08	1.40E-09	5.90E-09	2.82E-12	0.00E+00	7.30E-09	8.59E-10	2.71E-09	6.54E-13	0.00E+00	3.57E-09
5479	421335.64	3733991.83	1.03E-08	4.36E-08	1.91E-11	0.00E+00	5.39E-08	1.41E-09	5.96E-09	2.85E-12	0.00E+00	7.38E-09	8.68E-10	2.74E-09	6.61E-13	0.00E+00	3.61E-09
5480	421338.74	3734000.46	1.04E-08	4.40E-08	1.93E-11	0.00E+00	5.45E-08	1.43E-09	6.02E-09	2.88E-12	0.00E+00	7.45E-09	8.77E-10	2.77E-09	6.68E-13	0.00E+00	3.64E-09
5481	421341.84	3734009.1	1.05E-08	4.44E-08	1.95E-11	0.00E+00	5.50E-08	1.44E-09	6.08E-09	2.90E-12	0.00E+00	7.52E-09	8.86E-10	2.79E-09	6.74E-13	0.00E+00	3.68E-09
5482	421344.94	3734017.73	1.06E-08	4.49E-08	1.97E-11	0.00E+00	5.55E-08	1.46E-09	6.14E-09	2.93E-12	0.00E+00	7.60E-09	8.94E-10	2.82E-09	6.81E-13	0.00E+00	3.72E-09
5483	421348.03	3734026.37	1.07E-08	4.53E-08	1.99E-11	0.00E+00	5.61E-08	1.47E-09	6.19E-09	2.96E-12	0.00E+00	7.67E-09	9.03E-10	2.85E-09	6.87E-13	0.00E+00	3.75E-09
5484	421351.13	3734035	1.08E-08	4.57E-08	2.01E-11	0.00E+00	5.66E-08	1.48E-09	6.25E-09	2.99E-12	0.00E+00	7.74E-09	9.11E-10	2.87E-09	6.94E-13	0.00E+00	3.79E-09
5485	421354.23	3734043.64	1.09E-08	4.61E-08	2.02E-11	0.00E+00	5.71E-08	1.50E-09	6.31E-09	3.02E-12	0.00E+00	7.81E-09	9.19E-10	2.90E-09	7.00E-13	0.00E+00	3.82E-09
5486	421357.33	3734052.28	1.10E-08	4.66E-08	2.04E-11	0.00E+00	5.76E-08	1.51E-09	6.37E-09	3.04E-12	0.00E+00	7.88E-09	9.28E-10	2.93E-09	7.06E-13	0.00E+00	3.85E-09
5487	421360.43	3734060.91	1.11E-08	4.70E-08	2.06E-11	0.00E+00	5.81E-08	1.53E-09	6.42E-09	3.07E-12	0.00E+00	7.95E-09	9.36E-10	2.95E-09	7.13E-13	0.00E+00	3.89E-09
5488	421363.53	3734069.55	1.12E-08	4.74E-08	2.08E-11	0.00E+00	5.87E-08	1.54E-09	6.48E-09	3.10E-12	0.00E+00	8.02E-09	9.45E-10	2.98E-09	7.19E-13	0.00E+00	3.92E-09
5489	421366.63	3734078.18	1.13E-08	4.78E-08	2.10E-11	0.00E+00	5.92E-08	1.55E-09	6.54E-09	3.13E-12	0.00E+00	8.10E-09	9.53E-10	3.01E-09	7.26E-13	0.00E+00	3.96E-09
5490	421369.72	3734086.82	1.14E-08	4.83E-08	2.12E-11	0.00E+00	5.97E-08	1.57E-09	6.60E-09	3.16E-12	0.00E+00	8.17E-09	9.62E-10	3.04E-09	7.33E-13	0.00E+00	4.00E-09
5491	421372.82	3734095.45	1.15E-08	4.88E-08	2.14E-11	0.00E+00	6.03E-08	1.58E-09	6.67E-09	3.19E-12	0.00E+00	8.25E-09	9.71E-10	3.06E-09	7.40E-13	0.00E+00	4.04E-09
5492	421375.92	3734104.09	1.17E-08	4.92E-08	2.16E-11	0.00E+00	6.09E-08	1.60E-09	6.73E-09	3.22E-12	0.00E+00	8.33E-09	9.81E-10	3.09E-09	7.47E-13	0.00E+00	4.08E-09
5493	421379.02	3734112.72	1.18E-08	4.97E-08	2.18E-11	0.00E+00	6.15E-08	1.61E-09	6.80E-09	3.25E-12	0.00E+00	8.42E-09	9.91E-10	3.13E-09	7.54E-13	0.00E+00	4.12E-09
5494	421382.12	3734121.36	1.19E-08	5.02E-08	2.20E-11	0.00E+00	6.22E-08	1.63E-09	6.87E-09	3.28E-12	0.00E+00	8.50E-09	1.00E-09	3.16E-09	7.62E-13	0.00E+00	4.16E-09
5495	421385.22	3734130	1.20E-08	5.08E-08	2.23E-11	0.00E+00	6.28E-08	1.65E-09	6.94E-09	3.32E-12	0.00E+00	8.59E-09	1.01E-09	3.19E-09	7.70E-13	0.00E+00	4.20E-09
5496	421388.31	3734138.63	1.22E-08	5.13E-08	2.25E-11	0.00E+00	6.35E-08	1.67E-09	7.02E-09	3.35E-12	0.00E+00	8.69E-09	1.02E-09	3.23E-09	7.79E-13	0.00E+00	4.25E-09
5497	421391.41	3734147.27	1.23E-08	5.19E-08	2.28E-11	0.00E+00	6.42E-08	1.68E-09	7.10E-09	3.39E-12	0.00E+00	8.78E-09	1.03E-09	3.26E-09	7.87E-13	0.00E+00	4.30E-09
5498	421394.51	3734155.9	1.24E-08	5.25E-08	2.30E-11	0.00E+00	6.49E-08	1.70E-09	7.18E-09	3.43E-12	0.00E+00	8.88E-09	1.05E-09	3.30E-09	7.96E-13	0.00E+00	4.34E-09
5499	421397.61	3734164.54	1.26E-08	5.31E-08	2.33E-11	0.00E+00	6.57E-08	1.72E-09	7.26E-09	3.47E-12	0.00E+00	8.99E-09	1.06E-09	3.34E-09	8.06E-13	0.00E+00	4.40E-09
5500	421400.71	3734173.17	1.27E-08	5.37E-08	2.36E-11	0.00E+00	6.65E-08	1.74E-09	7.35E-09	3.51E-12	0.00E+00	9.10E-09	1.07E-09	3.38E-09	8.15E-13	0.00E+00	4.45E-09
5501	421403.81	3734181.81	1.29E-08	5.44E-08	2.39E-11	0.00E+00	6.73E-08	1.77E-09	7.44E-09	3.56E-12	0.00E+00	9.21E-09	1.08E-09	3.42E-09	8.26E-13	0.00E+00	4.51E-09
5502	421406.9	3734190.45	1.31E-08	5.52E-08	2.42E-11	0.00E+00	6.82E-08	1.79E-09	7.54E-09	3.60E-12	0.00E+00	9.34E-09	1.10E-09	3.47E-09	8.37E-13	0.00E+00	4.57E-09
5503	421410	3734199.08	1.32E-08	5.59E-08	2.45E-11	0.00E+00	6.91E-08	1.81E-09	7.64E-09	3.65E-12	0.00E+00	9.46E-09	1.11E-09	3.51E-09	8.48E-13	0.00E+00	4.63E-09
5504	421413.1	3734207.72	1.34E-08	5.64E-08	2.47E-11	0.00E+00	6.97E-08	1.83E-09	7.71E-09	3.68E-12	0.00E+00	9.54E-09	1.12E-09	3.54E-09	8.55E-13	0.00E+00	4.67E-09
5505	421416.2	3734216.35	1.35E-08	5.69E-08	2.50E-11	0.00E+00	7.04E-08	1.85E-09	7.78E-09	3.72E-12	0.00E+00	9.63E-09	1.13E-09	3.57E-09	8.63E-13	0.00E+00	4.71E-09
5506	421419.3	3734224.99	1.36E-08	5.75E-08	2.52E-11	0.00E+00	7.12E-08	1.87E-09	7.87E-09	3.76E-12	0.00E+00	9.74E-09	1.15E-09	3.62E-09	8.73E-13	0.00E+00	4.76E-09
5507	421422.4	3734233.62	1.38E-08	5.83E-08	2.56E-11	0.00E+00	7.22E-08	1.89E-09	7.98E-09	3.81E-12	0.00E+00	9.88E-09	1.16E-09	3.67E-09	8.85E-13	0.00E+00	4.83E-09
5508	421425.49	3734242.26	1.40E-08	5.92E-08	2.60E-11	0.00E+00	7.33E-08	1.92E-09	8.10E-09	3.87E-12	0.00E+00	1.00E-08	1.18E-09	3.72E-09	8.99E-13	0.00E+00	4.90E-09
5509	421440.99	3734285.44	1.56E-08	6.58E-08	2.89E-11	0.00E+00	8.14E-08	2.14E-09	8.99E-09	4.30E-12	0.00E+00	1.11E-08	1.31E-09	4.13E-09	9.98E-13	0.00E+00	5.45E-09
5510	420885.89	3733611.18	5.45E-09	2.30E-08	1.01E-11	0.00E+00	2.84E-08	7.46E-10	3.14E-09	1.50E-12	0.00E+00	3.89E-09	4.58E-10	1.45E-09	3.49E-13	0.00E+00	1.90E-09
5511	420876.85	3733609.31	5.41E-09	2.29E-08	1.00E-11	0.00E+00	2.83E-08	7.42E-10	3.13E-09	1.49E-12	0.00E+00	3.87E-09	4.56E-10	1.44E-09	3.47E-13	0.00E+00	1.89E-09
5512	420867.81	3733607.44	5.38E-09	2.27E-08	9.97E-12	0.00E+00	2.81E-08	7.38E-10	3.11E-09	1.49E-12	0.00E+00	3.85E-09	4.53E-10	1.43E-09	3.45E-13	0.00E+00	1.88E-09
5513	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5514	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5515	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5516	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5517	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5518	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5519	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5520	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5521	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5522	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5523	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5524	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5525	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5526	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5527	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5528	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5529	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5530	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5531	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5532	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5533	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5534	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5535	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5536	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5537	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5538	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5539	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5540	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5541	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5542	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5543	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5544	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5545	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5546	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5547	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5548	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5549	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5550	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5551	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5552	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5553	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5554	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5555	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5556	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5557	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5558	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5559	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5560	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5561	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5562	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5563	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5564	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5565	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5566	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5567	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5568	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5569	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5570	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5571	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5572	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5573	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5574	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5575	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5576	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5577	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5578	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5579	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5580	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5581	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5582	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5583	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5584	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5585	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5586	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5587	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5588	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5589	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5590	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5591	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5592	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5593	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5594	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5595	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5596	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5597	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5598	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5599	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5600	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5601	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5602	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5603	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5604	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5605	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5606	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5607	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5608	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5609	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5610	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5611	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5612	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5613	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5614	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5615	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5616	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5617	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5618	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5619	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5620	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5621	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5622	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5623	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5624	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5625	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5626	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5627	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5628	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5629	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5630	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5631	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5632	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5633	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5634	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5635	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5636	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5637	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5638	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5639	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5640	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5641	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5642	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5643	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5644	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5645	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5646	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5647	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5648	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5649	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5650	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5651	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5652	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5653	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5654	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5655	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5656	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5657	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5658	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5659	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5660	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5661	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5662	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5663	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5664	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5665	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5666	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5667	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5668	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5669	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5670	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5671	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5672	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5673	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5674	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5675	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5676	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5677	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5678	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5679	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5680	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5681	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5682	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5683	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5684	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5685	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5686	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5687	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5688	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5689	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5690	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5691	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5692	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5693	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5694	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5695	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5696	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5697	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5698	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5699	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5700	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5701	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5702	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5703	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5704	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5705	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5706	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5707	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5708	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5709	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5710	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5711	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5712	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5713	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5714	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5715	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5716	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5717	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5718	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5719	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5720	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5721	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5722	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5723	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5724	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5725	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5726	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5727	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5728	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5729	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5730	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5731	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5732	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5733	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5734	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5735	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5736	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5737	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5738	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5739	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5740	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5741	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5742	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5743	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5744	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5745	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5746	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5747	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5748	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5749	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5750	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5751	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5752	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5753	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5754	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5755	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5756	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5757	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5758	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5759	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5760	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5761	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5762	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5763	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5764	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5765	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5766	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5767	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5768	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5769	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5770	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5771	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5772	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5773	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5774	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5775	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5776	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5777	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5778	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5779	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5780	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5781	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5782	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5783	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5784	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5785	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5786	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5787	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5788	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5789	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5790	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5791	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5792	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5793	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5794	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5795	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5796	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5797	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5798	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5799	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5800	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5801	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5802	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5803	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5804	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5805	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5806	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5807	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5808	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5809	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5810	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5811	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5812	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5813	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5814	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5815	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5816	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5817	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5818	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5819	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5820	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5821	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5822	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5823	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5824	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5825	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5826	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5827	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5828	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5829	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5830	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5831	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5832	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5833	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5834	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5835	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5836	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5837	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5838	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5839	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5840	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5841	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5842	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5843	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5844	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5845	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5846	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5847	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5848	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5849	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5850	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5851	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5852	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5853	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5854	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5855	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5856	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5857	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5858	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5859	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5860	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5861	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5862	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5863	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5864	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5865	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5866	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5867	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5868	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5869	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5870	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5871	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5872	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5873	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5874	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5875	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5876	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5877	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5878	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5879	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5880	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5881	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5882	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5883	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5884	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5885	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5886	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5887	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5888	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5889	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5890	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5891	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5892	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5893	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5894	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5895	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5896	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5897	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5898	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5899	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5900	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5901	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5902	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5903	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5904	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5905	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5906	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5907	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5908	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5909	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5910	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5911	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5912	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5913	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5914	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5915	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5916	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5917	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5918	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5919	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5920	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5921	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5922	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5923	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5924	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5925	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5926	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5927	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5928	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5929	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5930	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5931	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5932	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5933	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5934	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5935	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5936	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5937	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5938	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5939	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5940	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5941	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5942	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5943	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5944	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5945	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5946	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5947	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5948	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5949	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5950	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5951	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5952	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5953	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5954	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5955	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5956	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5957	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5958	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5959	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5960	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5961	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5962	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5963	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5964	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5965	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5966	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5967	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5968	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5969	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5970	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5971	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5972	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5973	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5974	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5975	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5976	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

5977	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5978	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5979	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5980	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5981	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5982	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5983	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5984	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5985	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5986	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5987	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5988	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5989	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5990	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5991	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5992	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5993	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5994	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5995	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5996	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5997	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5998	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5999	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6000	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6001	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6002	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6003	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6004	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6005	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6006	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6007	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6008	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6009	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6010	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6011	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6012	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6013	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6014	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6015	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6016	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6017	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6018	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6019	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6020	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6021	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6022	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6023	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6024	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6025	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6026	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6027	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6028	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6029	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6030	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6031	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6032	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6033	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6034	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6035	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6036	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6037	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6038	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6039	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6040	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6041	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6042	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6043	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6044	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6045	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6046	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6047	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6048	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6049	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6050	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6051	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6052	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6053	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6054	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6055	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6056	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6057	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6058	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6059	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6060	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6061	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6062	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6063	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6064	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6065	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6066	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6067	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6068	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6069	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6070	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6071	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6072	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6073	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6074	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6075	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6076	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6077	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6078	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6079	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6080	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6081	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6082	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6083	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6084	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6085	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6086	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6087	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6088	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6089	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6090	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6091	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6092	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6093	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6094	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6095	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6096	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6097	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6098	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6099	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6100	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6101	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6102	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6103	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6104	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6105	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6106	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6107	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6108	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6109	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6110	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6111	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6112	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6113	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6114	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6115	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6116	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6117	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6118	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6119	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6120	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6121	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6122	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6123	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6124	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6125	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6126	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6127	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6128	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6129	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6130	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6131	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6132	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6133	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6134	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6135	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6136	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6137	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6138	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6139	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6140	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6141	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6142	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6143	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6144	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6145	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6146	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6147	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6148	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6149	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6150	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6151	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6152	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6153	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6154	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6155	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6156	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6157	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6158	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6159	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6160	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6161	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6162	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6163	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6164	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6165	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6166	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6167	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6168	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6169	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6170	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6171	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6172	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6173	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6174	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6175	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6176	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6177	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6178	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6179	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6180	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6181	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6182	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6183	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6184	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6185	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6186	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6187	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6188	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6189	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6190	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6191	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6192	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6193	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6194	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6195	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6196	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6197	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6198	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6199	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6200	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6201	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6202	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6203	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6204	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6205	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6206	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6207	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6208	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6209	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6210	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6211	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6212	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6213	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6214	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6215	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6216	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6217	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6218	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6219	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6220	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6221	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6222	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6223	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6224	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6225	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6226	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6227	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6228	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6229	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6230	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6231	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6232	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6233	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6234	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6235	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6236	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6237	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6238	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6239	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6240	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6241	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6242	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6243	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6244	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6245	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6246	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6247	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6248	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6249	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6250	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6251	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6252	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6253	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6254	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6255	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6256	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6257	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6258	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6259	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6260	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6261	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6262	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6263	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6264	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6265	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6266	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6267	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6268	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6269	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6270	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6271	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6272	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6273	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6274	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6275	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6276	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6277	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6278	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6279	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6280	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6281	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6282	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6283	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6284	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6285	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6286	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6287	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6288	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6289	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6290	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6291	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6292	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6293	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6294	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6295	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6296	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6297	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6298	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6299	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6300	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6301	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6302	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6303	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6304	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6305	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6306	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6307	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6308	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6309	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6310	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6311	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6312	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6313	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6314	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6315	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6316	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6317	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6318	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6319	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6320	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6321	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6322	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6323	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6324	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6325	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6326	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6327	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6328	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6329	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6330	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6331	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6332	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6333	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6334	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6335	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6336	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6337	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6338	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6339	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6340	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6341	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6342	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6343	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6344	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

6345	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6346	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6347	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6348	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6349	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6350	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6351	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6352	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6353	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6354	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6355	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6356	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6357	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6358	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6359	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6360	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6361	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6362	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6363	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6364	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6365	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6366	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6367	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6368	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6369	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6370	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6371	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6372	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6373	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6374	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6375	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6376	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6377	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6378	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6379	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6380	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6381	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6382	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6383	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6384	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6385	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6386	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6387	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

			T2Rev			T3L3			T4		
			5.26E-03	2.40E-02	5.25E-05	7.21E-04	3.29E-03	7.83E-06	4.42E-04	1.51E-03	1.82E-06
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	420751.42	3734206.59	8.78E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.52E-05	3.04E-08
2	420754.25	3734197	8.11E-05	3.71E-04	8.10E-07	1.11E-05	5.07E-05	1.21E-07	6.82E-06	2.33E-05	2.80E-08
3	420759.89	3734177.81	6.96E-05	3.18E-04	6.96E-07	9.54E-06	4.35E-05	1.04E-07	5.86E-06	2.00E-05	2.41E-08
4	420771.19	3734139.44	5.28E-05	2.41E-04	5.27E-07	7.23E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
5	420776.84	3734120.25	4.65E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
6	420782.48	3734101.07	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
7	420788.13	3734081.88	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
8	420793.78	3734062.7	3.32E-05	1.52E-04	3.32E-07	4.55E-06	2.08E-05	4.94E-08	2.79E-06	9.54E-06	1.15E-08
9	420799.42	3734043.51	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.62E-06	1.04E-08
10	420805.07	3734024.32	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
11	420810.72	3734005.14	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.57E-09
12	420822.01	3733966.77	2.09E-05	9.54E-05	2.09E-07	2.86E-06	1.30E-05	3.11E-08	1.76E-06	5.99E-06	7.21E-09
13	420844.6	3733890.02	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
14	420855.9	3733851.65	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
15	420867.19	3733813.28	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.14E-09
16	420878.49	3733774.9	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
17	420889.78	3733736.53	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
18	420901.07	3733698.16	8.77E-06	4.01E-05	8.77E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
19	420912.37	3733659.79	8.03E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
20	420923.66	3733621.41	7.40E-06	3.38E-05	7.39E-08	1.01E-06	4.62E-06	1.10E-08	6.22E-07	2.12E-06	2.56E-09
21	420710.71	3734291.33	2.03E-04	9.29E-04	2.03E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.84E-05	7.02E-08
22	420710.67	3734301.19	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.67E-05	8.02E-08
23	420710.55	3734330.77	3.67E-04	1.68E-03	3.67E-06	5.03E-05	2.29E-04	5.46E-07	3.09E-05	1.05E-04	1.27E-07
24	420710.51	3734340.63	4.39E-04	2.01E-03	4.39E-06	6.01E-05	2.74E-04	6.53E-07	3.69E-05	1.26E-04	1.52E-07
25	420710.47	3734350.49	5.34E-04	2.44E-03	5.34E-06	7.32E-05	3.34E-04	7.95E-07	4.50E-05	1.54E-04	1.85E-07
26	420700.67	3734301.15	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.37E-07	1.90E-05	6.50E-05	7.82E-08
27	420700.55	3734330.73	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
28	420700.51	3734340.59	4.25E-04	1.95E-03	4.25E-06	5.83E-05	2.66E-04	6.33E-07	3.58E-05	1.22E-04	1.47E-07
29	420700.47	3734350.45	5.17E-04	2.37E-03	5.17E-06	7.09E-05	3.24E-04	7.70E-07	4.35E-05	1.49E-04	1.79E-07
30	420690.67	3734301.11	2.20E-04	1.01E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.60E-08
31	420690.55	3734330.69	3.44E-04	1.57E-03	3.44E-06	4.72E-05	2.15E-04	5.13E-07	2.90E-05	9.89E-05	1.19E-07
32	420690.51	3734340.55	4.10E-04	1.88E-03	4.10E-06	5.62E-05	2.56E-04	6.11E-07	3.45E-05	1.18E-04	1.42E-07
33	420690.47	3734350.41	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
34	420684.74	3734283.23	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
35	420705.61	3734257.72	1.35E-04	6.18E-04	1.35E-06	1.85E-05	8.45E-05	2.01E-07	1.14E-05	3.88E-05	4.67E-08
36	420680.67	3734301.07	2.13E-04	9.76E-04	2.13E-06	2.93E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.38E-08
37	420680.55	3734330.65	3.32E-04	1.52E-03	3.32E-06	4.55E-05	2.08E-04	4.94E-07	2.79E-05	9.54E-05	1.15E-07
38	420680.51	3734340.51	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.87E-07	3.32E-05	1.13E-04	1.36E-07
39	420680.47	3734350.37	4.75E-04	2.17E-03	4.75E-06	6.52E-05	2.97E-04	7.08E-07	4.00E-05	1.37E-04	1.64E-07
40	420674.74	3734283.19	1.67E-04	7.65E-04	1.67E-06	2.29E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.78E-08
41	420699.64	3734249.7	1.23E-04	5.61E-04	1.23E-06	1.68E-05	7.67E-05	1.83E-07	1.03E-05	3.52E-05	4.24E-08
42	420717.23	3734246.55	1.23E-04	5.62E-04	1.23E-06	1.68E-05	7.68E-05	1.83E-07	1.03E-05	3.53E-05	4.25E-08
43	420670.67	3734301.03	2.07E-04	9.47E-04	2.07E-06	2.84E-05	1.29E-04	3.08E-07	1.74E-05	5.95E-05	7.16E-08
44	420670.55	3734330.61	3.20E-04	1.46E-03	3.20E-06	4.38E-05	2.00E-04	4.76E-07	2.69E-05	9.19E-05	1.10E-07
45	420670.51	3734340.47	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.63E-07	3.18E-05	1.09E-04	1.31E-07
46	420670.47	3734350.33	4.53E-04	2.07E-03	4.53E-06	6.22E-05	2.83E-04	6.75E-07	3.81E-05	1.30E-04	1.57E-07
47	420664.74	3734283.15	1.63E-04	7.45E-04	1.63E-06	2.23E-05	1.02E-04	2.42E-07	1.37E-05	4.68E-05	5.63E-08
48	420680.84	3734251.23	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.46E-05	1.78E-07	1.00E-05	3.43E-05	4.13E-08
49	420693.66	3734241.68	1.12E-04	5.10E-04	1.12E-06	1.53E-05	6.98E-05	1.66E-07	9.39E-06	3.21E-05	3.86E-08
50	420711.26	3734238.53	1.12E-04	5.13E-04	1.12E-06	1.54E-05	7.01E-05	1.67E-07	9.44E-06	3.22E-05	3.88E-08
51	420728.85	3734235.39	1.12E-04	5.12E-04	1.12E-06	1.53E-05	7.00E-05	1.67E-07	9.42E-06	3.22E-05	3.87E-08
52	420660.67	3734300.99	2.01E-04	9.19E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
53	420660.55	3734330.57	3.08E-04	1.41E-03	3.08E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
54	420660.51	3734340.43	3.62E-04	1.66E-03	3.62E-06	4.97E-05	2.26E-04	5.39E-07	3.05E-05	1.04E-04	1.25E-07
55	420660.47	3734350.29	4.32E-04	1.97E-03	4.31E-06	5.92E-05	2.70E-04	6.42E-07	3.63E-05	1.24E-04	1.49E-07
56	420654.74	3734283.11	1.59E-04	7.25E-04	1.59E-06	2.17E-05	9.92E-05	2.36E-07	1.33E-05	4.56E-05	5.48E-08
57	420670.84	3734251.19	1.17E-04	5.33E-04	1.17E-06	1.60E-05	7.29E-05	1.74E-07	9.81E-06	3.35E-05	4.03E-08
58	420687.69	3734233.66	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.58E-06	2.93E-05	3.52E-08

59	420705.29	3734230.51	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.63E-06	2.95E-05	3.55E-08
60	420722.88	3734227.37	1.03E-04	4.70E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
61	420650.67	3734300.95	1.95E-04	8.93E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.64E-05	5.61E-05	6.75E-08
62	420650.55	3734330.53	2.96E-04	1.35E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.51E-05	1.02E-07
63	420650.51	3734340.39	3.47E-04	1.58E-03	3.46E-06	4.75E-05	2.17E-04	5.16E-07	2.92E-05	9.96E-05	1.20E-07
64	420650.47	3734350.25	4.10E-04	1.87E-03	4.09E-06	5.62E-05	2.56E-04	6.10E-07	3.45E-05	1.18E-04	1.42E-07
65	420644.74	3734283.07	1.55E-04	7.07E-04	1.55E-06	2.12E-05	9.67E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
66	420660.84	3734251.15	1.14E-04	5.21E-04	1.14E-06	1.56E-05	7.12E-05	1.69E-07	9.58E-06	3.27E-05	3.93E-08
67	420668.89	3734235.19	9.93E-05	4.54E-04	9.92E-07	1.36E-05	6.21E-05	1.48E-07	8.35E-06	2.85E-05	3.43E-08
68	420681.72	3734225.64	9.34E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.68E-05	3.23E-08
69	420699.31	3734222.49	9.41E-05	4.30E-04	9.41E-07	1.29E-05	5.88E-05	1.40E-07	7.92E-06	2.70E-05	3.25E-08
70	420716.91	3734219.35	9.45E-05	4.32E-04	9.44E-07	1.29E-05	5.91E-05	1.41E-07	7.95E-06	2.71E-05	3.26E-08
71	420734.5	3734216.2	9.41E-05	4.30E-04	9.41E-07	1.29E-05	5.88E-05	1.40E-07	7.92E-06	2.70E-05	3.25E-08
72	420640.67	3734300.91	1.90E-04	8.68E-04	1.90E-06	2.60E-05	1.19E-04	2.83E-07	1.60E-05	5.46E-05	6.56E-08
73	420640.55	3734330.49	2.85E-04	1.30E-03	2.85E-06	3.90E-05	1.78E-04	4.24E-07	2.39E-05	8.18E-05	9.84E-08
74	420640.51	3734340.35	3.31E-04	1.51E-03	3.31E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
75	420640.47	3734350.21	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.76E-07	3.26E-05	1.11E-04	1.34E-07
76	420650.84	3734251.11	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.96E-05	1.66E-07	9.36E-06	3.20E-05	3.85E-08
77	420658.89	3734235.15	9.71E-05	4.44E-04	9.71E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
78	420675.74	3734217.62	8.59E-05	3.93E-04	8.58E-07	1.18E-05	5.37E-05	1.28E-07	7.22E-06	2.47E-05	2.97E-08
79	420693.34	3734214.47	8.65E-05	3.96E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
80	420710.93	3734211.33	8.70E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.32E-06	2.50E-05	3.01E-08
81	420728.53	3734208.18	8.70E-05	3.98E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.32E-06	2.50E-05	3.01E-08
82	420640.84	3734251.07	1.09E-04	4.98E-04	1.09E-06	1.49E-05	6.81E-05	1.62E-07	9.16E-06	3.13E-05	3.76E-08
83	420648.89	3734235.11	9.50E-05	4.35E-04	9.50E-07	1.30E-05	5.94E-05	1.41E-07	8.00E-06	2.73E-05	3.28E-08
84	420656.95	3734219.15	8.37E-05	3.83E-04	8.37E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.41E-05	2.89E-08
85	420669.77	3734209.6	7.92E-05	3.62E-04	7.91E-07	1.09E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.74E-08
86	420687.36	3734206.45	7.98E-05	3.65E-04	7.98E-07	1.09E-05	4.99E-05	1.19E-07	6.72E-06	2.29E-05	2.76E-08
87	420704.96	3734203.31	8.04E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
88	420722.55	3734200.16	8.05E-05	3.68E-04	8.04E-07	1.10E-05	5.03E-05	1.20E-07	6.77E-06	2.31E-05	2.78E-08
89	420635.85	3734221.25	8.18E-05	3.74E-04	8.18E-07	1.12E-05	5.11E-05	1.22E-07	6.88E-06	2.35E-05	2.83E-08
90	420640.24	3734212.54	7.66E-05	3.50E-04	7.65E-07	1.05E-05	4.79E-05	1.14E-07	6.44E-06	2.20E-05	2.65E-08
91	420644.63	3734203.84	7.18E-05	3.28E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.04E-06	2.06E-05	2.48E-08
92	420658.62	3734193.42	6.78E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.34E-08
93	420668.22	3734191.7	6.82E-05	3.12E-04	6.81E-07	9.34E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.36E-08
94	420677.82	3734189.99	6.85E-05	3.13E-04	6.84E-07	9.39E-06	4.28E-05	1.02E-07	5.76E-06	1.97E-05	2.37E-08
95	420687.41	3734188.27	6.88E-05	3.15E-04	6.88E-07	9.43E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
96	420697.01	3734186.55	6.91E-05	3.16E-04	6.90E-07	9.47E-06	4.32E-05	1.03E-07	5.81E-06	1.98E-05	2.39E-08
97	420706.61	3734184.84	6.92E-05	3.17E-04	6.92E-07	9.49E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.39E-08
98	420716.2	3734183.12	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.40E-08
99	420725.8	3734181.4	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.40E-08
100	420735.4	3734179.69	6.92E-05	3.16E-04	6.91E-07	9.48E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
101	420600.71	3734290.88	1.50E-04	6.88E-04	1.50E-06	2.06E-05	9.40E-05	2.24E-07	1.27E-05	4.32E-05	5.20E-08
102	420600.67	3734300.74	1.68E-04	7.66E-04	1.68E-06	2.30E-05	1.05E-04	2.49E-07	1.41E-05	4.82E-05	5.79E-08
103	420600.63	3734310.6	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.47E-08
104	420600.59	3734320.46	2.10E-04	9.58E-04	2.09E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.02E-05	7.24E-08
105	420600.55	3734330.32	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
106	420600.51	3734340.18	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
107	420600.47	3734350.04	2.95E-04	1.35E-03	2.95E-06	4.05E-05	1.85E-04	4.39E-07	2.48E-05	8.48E-05	1.02E-07
108	420602.39	3734247.84	9.75E-05	4.46E-04	9.74E-07	1.34E-05	6.09E-05	1.45E-07	8.20E-06	2.80E-05	3.37E-08
109	420606.73	3734239.25	9.10E-05	4.16E-04	9.09E-07	1.25E-05	5.69E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
110	420646.55	3734177.4	5.87E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.94E-06	1.69E-05	2.03E-08
111	420656.02	3734175.71	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
112	420665.5	3734174.01	5.92E-05	2.71E-04	5.92E-07	8.12E-06	3.70E-05	8.81E-08	4.98E-06	1.70E-05	2.05E-08
113	420674.97	3734172.32	5.95E-05	2.72E-04	5.94E-07	8.15E-06	3.72E-05	8.85E-08	5.00E-06	1.71E-05	2.06E-08
114	420684.45	3734170.62	5.97E-05	2.73E-04	5.97E-07	8.19E-06	3.73E-05	8.89E-08	5.03E-06	1.72E-05	2.06E-08
115	420580.71	3734290.8	1.40E-04	6.42E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
116	420580.67	3734300.66	1.55E-04	7.09E-04	1.55E-06	2.13E-05	9.70E-05	2.31E-07	1.31E-05	4.46E-05	5.36E-08
117	420580.63	3734310.52	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
118	420580.59	3734320.38	1.89E-04	8.65E-04	1.89E-06	2.59E-05	1.18E-04	2.82E-07	1.59E-05	5.43E-05	6.53E-08
119	420580.55	3734330.24	2.09E-04	9.53E-04	2.08E-06	2.86E-05	1.30E-04	3.10E-07	1.75E-05	5.99E-05	7.21E-08
120	420580.51	3734340.1	2.30E-04	1.05E-03	2.29E-06	3.15E-05	1.43E-04	3.42E-07	1.93E-05	6.60E-05	7.93E-08

121	420580.47	3734349.96	2.52E-04	1.15E-03	2.52E-06	3.45E-05	1.57E-04	3.75E-07	2.12E-05	7.24E-05	8.70E-08
122	420582.18	3734248.17	9.36E-05	4.28E-04	9.35E-07	1.28E-05	5.85E-05	1.39E-07	7.87E-06	2.69E-05	3.23E-08
123	420586.48	3734239.66	8.76E-05	4.01E-04	8.76E-07	1.20E-05	5.48E-05	1.30E-07	7.37E-06	2.52E-05	3.03E-08
124	420590.77	3734231.14	8.23E-05	3.76E-04	8.22E-07	1.13E-05	5.14E-05	1.22E-07	6.92E-06	2.36E-05	2.84E-08
125	420595.07	3734222.63	7.71E-05	3.53E-04	7.71E-07	1.06E-05	4.82E-05	1.15E-07	6.49E-06	2.22E-05	2.66E-08
126	420599.36	3734214.12	7.23E-05	3.31E-04	7.23E-07	9.91E-06	4.52E-05	1.08E-07	6.09E-06	2.08E-05	2.50E-08
127	420603.66	3734205.61	6.80E-05	3.11E-04	6.80E-07	9.32E-06	4.25E-05	1.01E-07	5.72E-06	1.95E-05	2.35E-08
128	420607.95	3734197.1	6.40E-05	2.93E-04	6.40E-07	8.78E-06	4.00E-05	9.53E-08	5.39E-06	1.84E-05	2.21E-08
129	420700.2	3734149.63	5.27E-05	2.41E-04	5.27E-07	7.22E-06	3.29E-05	7.84E-08	4.43E-06	1.51E-05	1.82E-08
130	420709.58	3734147.95	5.28E-05	2.41E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
131	420718.97	3734146.27	5.29E-05	2.42E-04	5.29E-07	7.25E-06	3.31E-05	7.87E-08	4.45E-06	1.52E-05	1.83E-08
132	420728.35	3734144.59	5.29E-05	2.42E-04	5.28E-07	7.25E-06	3.30E-05	7.87E-08	4.45E-06	1.52E-05	1.83E-08
133	420737.74	3734142.92	5.28E-05	2.41E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
134	420756.5	3734139.56	5.24E-05	2.39E-04	5.23E-07	7.18E-06	3.27E-05	7.80E-08	4.41E-06	1.50E-05	1.81E-08
135	420560.71	3734290.72	1.29E-04	5.91E-04	1.29E-06	1.77E-05	8.08E-05	1.92E-07	1.09E-05	3.71E-05	4.47E-08
136	420560.67	3734300.58	1.42E-04	6.49E-04	1.42E-06	1.95E-05	8.87E-05	2.11E-07	1.19E-05	4.08E-05	4.90E-08
137	420560.63	3734310.44	1.55E-04	7.08E-04	1.55E-06	2.12E-05	9.68E-05	2.30E-07	1.30E-05	4.45E-05	5.35E-08
138	420560.59	3734320.3	1.68E-04	7.70E-04	1.68E-06	2.31E-05	1.05E-04	2.51E-07	1.42E-05	4.84E-05	5.82E-08
139	420560.55	3734330.16	1.83E-04	8.36E-04	1.83E-06	2.51E-05	1.14E-04	2.72E-07	1.54E-05	5.25E-05	6.32E-08
140	420560.51	3734340.02	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.84E-08
141	420560.47	3734349.88	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
142	420562.03	3734248.4	8.93E-05	4.08E-04	8.93E-07	1.22E-05	5.58E-05	1.33E-07	7.52E-06	2.57E-05	3.09E-08
143	420566.29	3734239.95	8.43E-05	3.85E-04	8.42E-07	1.16E-05	5.27E-05	1.25E-07	7.09E-06	2.42E-05	2.91E-08
144	420570.55	3734231.5	7.92E-05	3.62E-04	7.92E-07	1.09E-05	4.95E-05	1.18E-07	6.67E-06	2.28E-05	2.74E-08
145	420574.81	3734223.05	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.58E-08
146	420579.08	3734214.61	7.04E-05	3.22E-04	7.04E-07	9.66E-06	4.40E-05	1.05E-07	5.93E-06	2.02E-05	2.43E-08
147	420583.34	3734206.16	6.63E-05	3.03E-04	6.63E-07	9.09E-06	4.15E-05	9.87E-08	5.58E-06	1.91E-05	2.29E-08
148	420587.6	3734197.71	6.25E-05	2.86E-04	6.25E-07	8.57E-06	3.91E-05	9.30E-08	5.26E-06	1.80E-05	2.16E-08
149	420591.87	3734189.26	5.90E-05	2.70E-04	5.89E-07	8.08E-06	3.69E-05	8.78E-08	4.96E-06	1.69E-05	2.04E-08
150	420596.13	3734180.81	5.57E-05	2.55E-04	5.56E-07	7.63E-06	3.48E-05	8.29E-08	4.68E-06	1.60E-05	1.92E-08
151	420600.39	3734172.36	5.27E-05	2.41E-04	5.26E-07	7.22E-06	3.29E-05	7.84E-08	4.43E-06	1.51E-05	1.82E-08
152	420631.81	3734143.69	4.52E-05	2.07E-04	4.52E-07	6.20E-06	2.83E-05	6.73E-08	3.80E-06	1.30E-05	1.56E-08
153	420641.12	3734142.02	4.54E-05	2.07E-04	4.53E-07	6.22E-06	2.84E-05	6.75E-08	3.82E-06	1.30E-05	1.57E-08
154	420650.44	3734140.35	4.55E-05	2.08E-04	4.55E-07	6.24E-06	2.85E-05	6.78E-08	3.83E-06	1.31E-05	1.57E-08
155	420659.75	3734138.69	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
156	420669.07	3734137.02	4.59E-05	2.10E-04	4.59E-07	6.30E-06	2.87E-05	6.84E-08	3.86E-06	1.32E-05	1.59E-08
157	420678.39	3734135.36	4.61E-05	2.11E-04	4.61E-07	6.32E-06	2.88E-05	6.87E-08	3.88E-06	1.33E-05	1.59E-08
158	420687.7	3734133.69	4.63E-05	2.12E-04	4.63E-07	6.35E-06	2.90E-05	6.89E-08	3.90E-06	1.33E-05	1.60E-08
159	420697.02	3734132.02	4.65E-05	2.12E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
160	420706.33	3734130.36	4.66E-05	2.13E-04	4.66E-07	6.39E-06	2.91E-05	6.94E-08	3.92E-06	1.34E-05	1.61E-08
161	420715.65	3734128.69	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
162	420724.96	3734127.03	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
163	420734.28	3734125.36	4.67E-05	2.13E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
164	420762.22	3734120.36	4.62E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.88E-08	3.89E-06	1.33E-05	1.60E-08
165	420540.71	3734290.64	1.19E-04	5.43E-04	1.19E-06	1.63E-05	7.42E-05	1.77E-07	9.98E-06	3.41E-05	4.10E-08
166	420540.67	3734300.5	1.29E-04	5.88E-04	1.29E-06	1.76E-05	8.04E-05	1.91E-07	1.08E-05	3.70E-05	4.45E-08
167	420540.63	3734310.36	1.38E-04	6.33E-04	1.38E-06	1.90E-05	8.66E-05	2.06E-07	1.17E-05	3.98E-05	4.79E-08
168	420540.59	3734320.22	1.49E-04	6.80E-04	1.49E-06	2.04E-05	9.29E-05	2.21E-07	1.25E-05	4.27E-05	5.14E-08
169	420540.55	3734330.08	1.59E-04	7.27E-04	1.59E-06	2.18E-05	9.94E-05	2.37E-07	1.34E-05	4.57E-05	5.49E-08
170	420540.51	3734339.94	1.69E-04	7.74E-04	1.69E-06	2.32E-05	1.06E-04	2.52E-07	1.42E-05	4.87E-05	5.85E-08
171	420540.47	3734349.8	1.79E-04	8.21E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.16E-05	6.20E-08
172	420541.9	3734248.56	8.42E-05	3.85E-04	8.41E-07	1.15E-05	5.26E-05	1.25E-07	7.08E-06	2.42E-05	2.91E-08
173	420546.14	3734240.17	8.03E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.77E-08
174	420550.38	3734231.77	7.64E-05	3.49E-04	7.63E-07	1.05E-05	4.78E-05	1.14E-07	6.43E-06	2.19E-05	2.64E-08
175	420554.61	3734223.37	7.25E-05	3.31E-04	7.24E-07	9.93E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.50E-08
176	420558.85	3734214.97	6.85E-05	3.13E-04	6.85E-07	9.39E-06	4.28E-05	1.02E-07	5.76E-06	1.97E-05	2.37E-08
177	420563.09	3734206.57	6.46E-05	2.95E-04	6.46E-07	8.86E-06	4.04E-05	9.62E-08	5.44E-06	1.86E-05	2.23E-08
178	420567.33	3734198.17	6.10E-05	2.79E-04	6.10E-07	8.36E-06	3.81E-05	9.08E-08	5.13E-06	1.75E-05	2.11E-08
179	420571.57	3734189.77	5.76E-05	2.63E-04	5.76E-07	7.90E-06	3.60E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
180	420575.8	3734181.37	5.45E-05	2.49E-04	5.45E-07	7.47E-06	3.41E-05	8.11E-08	4.58E-06	1.57E-05	1.88E-08
181	420580.04	3734172.97	5.16E-05	2.36E-04	5.15E-07	7.07E-06	3.22E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
182	420592.76	3734147.78	4.40E-05	2.01E-04	4.40E-07	6.04E-06	2.75E-05	6.55E-08	3.70E-06	1.27E-05	1.52E-08

183	420596.99	3734139.38	4.19E-05	1.92E-04	4.19E-07	5.74E-06	2.62E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
184	420610.49	3734129.32	4.00E-05	1.83E-04	3.99E-07	5.48E-06	2.50E-05	5.95E-08	3.36E-06	1.15E-05	1.38E-08
185	420638.27	3734124.35	4.03E-05	1.84E-04	4.03E-07	5.52E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
186	420647.53	3734122.7	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
187	420656.8	3734121.04	4.06E-05	1.86E-04	4.06E-07	5.57E-06	2.54E-05	6.05E-08	3.42E-06	1.17E-05	1.40E-08
188	420666.06	3734119.39	4.08E-05	1.87E-04	4.08E-07	5.59E-06	2.55E-05	6.07E-08	3.43E-06	1.17E-05	1.41E-08
189	420675.32	3734117.73	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
190	420684.58	3734116.07	4.11E-05	1.88E-04	4.11E-07	5.64E-06	2.57E-05	6.12E-08	3.46E-06	1.18E-05	1.42E-08
191	420693.84	3734114.42	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
192	420703.1	3734112.76	4.14E-05	1.89E-04	4.14E-07	5.68E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
193	420712.36	3734111.1	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.59E-05	6.18E-08	3.49E-06	1.19E-05	1.43E-08
194	420721.62	3734109.45	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.60E-05	6.18E-08	3.49E-06	1.19E-05	1.44E-08
195	420730.88	3734107.79	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.60E-05	6.18E-08	3.50E-06	1.19E-05	1.44E-08
196	420758.66	3734102.82	4.13E-05	1.89E-04	4.12E-07	5.66E-06	2.58E-05	6.14E-08	3.47E-06	1.19E-05	1.43E-08
197	420767.92	3734101.16	4.11E-05	1.88E-04	4.10E-07	5.63E-06	2.57E-05	6.11E-08	3.46E-06	1.18E-05	1.42E-08
198	420520.71	3734290.56	1.08E-04	4.96E-04	1.08E-06	1.49E-05	6.78E-05	1.61E-07	9.12E-06	3.12E-05	3.75E-08
199	420520.67	3734300.42	1.16E-04	5.29E-04	1.16E-06	1.59E-05	7.23E-05	1.72E-07	9.73E-06	3.32E-05	4.00E-08
200	420520.63	3734310.28	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.04E-05	3.54E-05	4.25E-08
201	420520.59	3734320.14	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
202	420520.55	3734330	1.38E-04	6.29E-04	1.38E-06	1.89E-05	8.60E-05	2.05E-07	1.16E-05	3.95E-05	4.76E-08
203	420520.51	3734339.86	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
204	420520.47	3734349.72	1.51E-04	6.91E-04	1.51E-06	2.07E-05	9.46E-05	2.25E-07	1.27E-05	4.35E-05	5.23E-08
205	420522.85	3734246.59	7.97E-05	3.64E-04	7.96E-07	1.09E-05	4.98E-05	1.19E-07	6.70E-06	2.29E-05	2.75E-08
206	420527.28	3734237.82	7.60E-05	3.47E-04	7.59E-07	1.04E-05	4.75E-05	1.13E-07	6.39E-06	2.18E-05	2.63E-08
207	420531.71	3734229.04	7.24E-05	3.31E-04	7.24E-07	9.93E-06	4.53E-05	1.08E-07	6.09E-06	2.08E-05	2.50E-08
208	420536.14	3734220.26	6.85E-05	3.13E-04	6.85E-07	9.39E-06	4.28E-05	1.02E-07	5.77E-06	1.97E-05	2.37E-08
209	420540.57	3734211.49	6.48E-05	2.96E-04	6.47E-07	8.88E-06	4.05E-05	9.64E-08	5.45E-06	1.86E-05	2.24E-08
210	420545	3734202.71	6.12E-05	2.80E-04	6.11E-07	8.38E-06	3.82E-05	9.10E-08	5.14E-06	1.76E-05	2.11E-08
211	420549.43	3734193.93	5.77E-05	2.64E-04	5.77E-07	7.91E-06	3.61E-05	8.59E-08	4.86E-06	1.66E-05	1.99E-08
212	420553.86	3734185.16	5.45E-05	2.49E-04	5.45E-07	7.47E-06	3.41E-05	8.11E-08	4.59E-06	1.57E-05	1.88E-08
213	420558.28	3734176.38	5.15E-05	2.35E-04	5.15E-07	7.06E-06	3.22E-05	7.67E-08	4.33E-06	1.48E-05	1.78E-08
214	420576	3734141.27	4.14E-05	1.89E-04	4.14E-07	5.68E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
215	420580.43	3734132.49	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.85E-08	3.31E-06	1.13E-05	1.36E-08
216	420584.86	3734123.72	3.74E-05	1.71E-04	3.74E-07	5.13E-06	2.34E-05	5.57E-08	3.15E-06	1.08E-05	1.29E-08
217	420598.96	3734113.21	3.57E-05	1.63E-04	3.57E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.03E-05	1.23E-08
218	420608.64	3734111.48	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.01E-06	1.03E-05	1.23E-08
219	420637.67	3734106.29	3.60E-05	1.65E-04	3.60E-07	4.94E-06	2.25E-05	5.37E-08	3.03E-06	1.04E-05	1.25E-08
220	420647.35	3734104.56	3.62E-05	1.66E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.05E-06	1.04E-05	1.25E-08
221	420657.03	3734102.82	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.27E-05	5.41E-08	3.06E-06	1.05E-05	1.26E-08
222	420666.7	3734101.09	3.65E-05	1.67E-04	3.65E-07	5.01E-06	2.28E-05	5.44E-08	3.07E-06	1.05E-05	1.26E-08
223	420676.38	3734099.36	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
224	420686.06	3734097.63	3.68E-05	1.68E-04	3.68E-07	5.05E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
225	420695.73	3734095.9	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
226	420705.41	3734094.17	3.71E-05	1.70E-04	3.71E-07	5.08E-06	2.32E-05	5.52E-08	3.12E-06	1.07E-05	1.28E-08
227	420715.09	3734092.44	3.72E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.13E-06	1.07E-05	1.28E-08
228	420724.77	3734090.71	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
229	420734.44	3734088.98	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
230	420753.8	3734085.52	3.71E-05	1.69E-04	3.71E-07	5.08E-06	2.32E-05	5.52E-08	3.12E-06	1.07E-05	1.28E-08
231	420763.48	3734083.78	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
232	420773.15	3734082.05	3.68E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
233	420500.71	3734290.48	9.77E-05	4.47E-04	9.77E-07	1.34E-05	6.11E-05	1.45E-07	8.22E-06	2.81E-05	3.38E-08
234	420500.67	3734300.34	1.03E-04	4.72E-04	1.03E-06	1.41E-05	6.45E-05	1.54E-07	8.68E-06	2.97E-05	3.57E-08
235	420500.63	3734310.2	1.09E-04	4.96E-04	1.09E-06	1.49E-05	6.79E-05	1.62E-07	9.13E-06	3.12E-05	3.75E-08
236	420500.59	3734320.06	1.14E-04	5.20E-04	1.14E-06	1.56E-05	7.11E-05	1.69E-07	9.57E-06	3.27E-05	3.93E-08
237	420500.55	3734329.92	1.19E-04	5.43E-04	1.19E-06	1.63E-05	7.42E-05	1.77E-07	9.99E-06	3.41E-05	4.10E-08
238	420500.51	3734339.78	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.54E-05	4.26E-08
239	420500.47	3734349.64	1.28E-04	5.83E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
240	420511.46	3734229.47	6.92E-05	3.16E-04	6.92E-07	9.48E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
241	420515.85	3734220.76	6.59E-05	3.01E-04	6.59E-07	9.04E-06	4.12E-05	9.81E-08	5.55E-06	1.89E-05	2.28E-08
242	420520.24	3734212.06	6.27E-05	2.86E-04	6.26E-07	8.59E-06	3.92E-05	9.33E-08	5.27E-06	1.80E-05	2.17E-08
243	420524.63	3734203.35	5.95E-05	2.72E-04	5.94E-07	8.15E-06	3.72E-05	8.85E-08	5.00E-06	1.71E-05	2.05E-08
244	420529.02	3734194.65	5.64E-05	2.58E-04	5.63E-07	7.73E-06	3.52E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08

245	420533.42	3734185.94	5.34E-05	2.44E-04	5.34E-07	7.32E-06	3.34E-05	7.95E-08	4.49E-06	1.53E-05	1.84E-08
246	420537.81	3734177.24	5.06E-05	2.31E-04	5.05E-07	6.93E-06	3.16E-05	7.53E-08	4.25E-06	1.45E-05	1.75E-08
247	420555.38	3734142.42	4.08E-05	1.87E-04	4.08E-07	5.60E-06	2.55E-05	6.08E-08	3.44E-06	1.17E-05	1.41E-08
248	420559.77	3734133.72	3.88E-05	1.77E-04	3.88E-07	5.32E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
249	420564.16	3734125.01	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
250	420568.55	3734116.31	3.52E-05	1.61E-04	3.51E-07	4.82E-06	2.20E-05	5.23E-08	2.96E-06	1.01E-05	1.22E-08
251	420572.94	3734107.61	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
252	420586.93	3734097.19	3.20E-05	1.46E-04	3.20E-07	4.39E-06	2.00E-05	4.77E-08	2.69E-06	9.20E-06	1.11E-08
253	420596.53	3734095.47	3.21E-05	1.47E-04	3.20E-07	4.40E-06	2.00E-05	4.77E-08	2.70E-06	9.21E-06	1.11E-08
254	420606.13	3734093.75	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.23E-06	1.11E-08
255	420615.73	3734092.04	3.22E-05	1.47E-04	3.22E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.25E-06	1.11E-08
256	420634.92	3734088.6	3.24E-05	1.48E-04	3.24E-07	4.45E-06	2.03E-05	4.83E-08	2.73E-06	9.32E-06	1.12E-08
257	420644.52	3734086.89	3.26E-05	1.49E-04	3.26E-07	4.46E-06	2.04E-05	4.85E-08	2.74E-06	9.36E-06	1.13E-08
258	420654.11	3734085.17	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.40E-06	1.13E-08
259	420663.71	3734083.45	3.29E-05	1.50E-04	3.28E-07	4.51E-06	2.05E-05	4.89E-08	2.77E-06	9.44E-06	1.14E-08
260	420673.31	3734081.74	3.30E-05	1.51E-04	3.30E-07	4.53E-06	2.06E-05	4.91E-08	2.78E-06	9.49E-06	1.14E-08
261	420682.91	3734080.02	3.31E-05	1.52E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.79E-06	9.52E-06	1.15E-08
262	420692.5	3734078.3	3.33E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.56E-06	1.15E-08
263	420702.1	3734076.59	3.34E-05	1.53E-04	3.34E-07	4.57E-06	2.09E-05	4.97E-08	2.81E-06	9.59E-06	1.15E-08
264	420711.7	3734074.87	3.34E-05	1.53E-04	3.34E-07	4.59E-06	2.09E-05	4.98E-08	2.81E-06	9.61E-06	1.16E-08
265	420721.3	3734073.15	3.35E-05	1.53E-04	3.35E-07	4.59E-06	2.09E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
266	420730.89	3734071.44	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
267	420759.69	3734066.29	3.34E-05	1.52E-04	3.33E-07	4.57E-06	2.09E-05	4.96E-08	2.81E-06	9.58E-06	1.15E-08
268	420769.28	3734064.57	3.32E-05	1.52E-04	3.32E-07	4.55E-06	2.08E-05	4.95E-08	2.79E-06	9.55E-06	1.15E-08
269	420778.88	3734062.85	3.31E-05	1.51E-04	3.30E-07	4.53E-06	2.07E-05	4.92E-08	2.78E-06	9.50E-06	1.14E-08
270	420480.71	3734290.4	8.75E-05	4.00E-04	8.75E-07	1.20E-05	5.47E-05	1.30E-07	7.37E-06	2.52E-05	3.03E-08
271	420480.67	3734300.26	9.15E-05	4.19E-04	9.15E-07	1.25E-05	5.72E-05	1.36E-07	7.70E-06	2.63E-05	3.16E-08
272	420480.63	3734310.12	9.54E-05	4.36E-04	9.53E-07	1.31E-05	5.96E-05	1.42E-07	8.02E-06	2.74E-05	3.30E-08
273	420480.59	3734319.98	9.90E-05	4.53E-04	9.90E-07	1.36E-05	6.19E-05	1.47E-07	8.33E-06	2.84E-05	3.42E-08
274	420480.55	3734329.84	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.40E-05	1.52E-07	8.61E-06	2.94E-05	3.54E-08
275	420480.51	3734339.7	1.05E-04	4.82E-04	1.05E-06	1.44E-05	6.59E-05	1.57E-07	8.86E-06	3.03E-05	3.64E-08
276	420480.47	3734349.56	1.08E-04	4.94E-04	1.08E-06	1.48E-05	6.75E-05	1.61E-07	9.09E-06	3.10E-05	3.73E-08
277	420482.52	3734247.1	7.04E-05	3.22E-04	7.04E-07	9.65E-06	4.40E-05	1.05E-07	5.92E-06	2.02E-05	2.43E-08
278	420486.88	3734238.45	6.81E-05	3.11E-04	6.80E-07	9.33E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
279	420491.24	3734229.81	6.56E-05	3.00E-04	6.55E-07	8.99E-06	4.10E-05	9.76E-08	5.52E-06	1.88E-05	2.27E-08
280	420513.05	3734186.59	5.21E-05	2.38E-04	5.20E-07	7.14E-06	3.25E-05	7.75E-08	4.38E-06	1.50E-05	1.80E-08
281	420517.41	3734177.95	4.95E-05	2.26E-04	4.94E-07	6.78E-06	3.09E-05	7.36E-08	4.16E-06	1.42E-05	1.71E-08
282	420521.77	3734169.3	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
283	420534.86	3734143.37	4.03E-05	1.84E-04	4.03E-07	5.52E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
284	420539.22	3734134.73	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.40E-05	5.70E-08	3.22E-06	1.10E-05	1.32E-08
285	420543.58	3734126.08	3.65E-05	1.67E-04	3.64E-07	5.00E-06	2.28E-05	5.43E-08	3.07E-06	1.05E-05	1.26E-08
286	420547.94	3734117.44	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.98E-06	1.20E-08
287	420552.3	3734108.79	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.79E-06	9.52E-06	1.14E-08
288	420556.67	3734100.15	3.16E-05	1.45E-04	3.16E-07	4.33E-06	1.98E-05	4.71E-08	2.66E-06	9.08E-06	1.09E-08
289	420561.03	3734091.51	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
290	420574.92	3734081.16	2.89E-05	1.32E-04	2.89E-07	3.96E-06	1.81E-05	4.30E-08	2.43E-06	8.30E-06	9.99E-09
291	420584.45	3734079.45	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.43E-06	8.31E-06	1.00E-08
292	420593.98	3734077.75	2.90E-05	1.32E-04	2.90E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
293	420603.51	3734076.04	2.90E-05	1.33E-04	2.90E-07	3.98E-06	1.82E-05	4.32E-08	2.44E-06	8.34E-06	1.00E-08
294	420613.04	3734074.34	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.37E-06	1.01E-08
295	420632.1	3734070.93	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
296	420641.63	3734069.23	2.95E-05	1.35E-04	2.94E-07	4.04E-06	1.84E-05	4.38E-08	2.48E-06	8.46E-06	1.02E-08
297	420651.16	3734067.52	2.96E-05	1.35E-04	2.96E-07	4.06E-06	1.85E-05	4.40E-08	2.49E-06	8.50E-06	1.02E-08
298	420660.7	3734065.82	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.54E-06	1.03E-08
299	420670.23	3734064.11	2.98E-05	1.36E-04	2.98E-07	4.09E-06	1.87E-05	4.44E-08	2.51E-06	8.58E-06	1.03E-08
300	420679.76	3734062.41	3.00E-05	1.37E-04	2.99E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.61E-06	1.04E-08
301	420689.29	3734060.7	3.01E-05	1.37E-04	3.01E-07	4.12E-06	1.88E-05	4.48E-08	2.53E-06	8.64E-06	1.04E-08
302	420698.82	3734059	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.49E-08	2.54E-06	8.67E-06	1.04E-08
303	420708.35	3734057.29	3.02E-05	1.38E-04	3.02E-07	4.15E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
304	420717.88	3734055.59	3.03E-05	1.39E-04	3.03E-07	4.15E-06	1.89E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
305	420727.41	3734053.88	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
306	420736.94	3734052.18	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08

307	420756	3734048.77	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
308	420765.53	3734047.06	3.01E-05	1.38E-04	3.01E-07	4.13E-06	1.88E-05	4.49E-08	2.53E-06	8.66E-06	1.04E-08
309	420775.06	3734045.36	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.88E-05	4.47E-08	2.53E-06	8.63E-06	1.04E-08
310	420784.59	3734043.65	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
311	420460.71	3734290.32	7.81E-05	3.57E-04	7.81E-07	1.07E-05	4.88E-05	1.16E-07	6.57E-06	2.24E-05	2.70E-08
312	420460.67	3734300.18	8.10E-05	3.70E-04	8.10E-07	1.11E-05	5.06E-05	1.21E-07	6.81E-06	2.33E-05	2.80E-08
313	420460.63	3734310.04	8.37E-05	3.83E-04	8.36E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.40E-05	2.89E-08
314	420460.59	3734319.9	8.61E-05	3.94E-04	8.61E-07	1.18E-05	5.39E-05	1.28E-07	7.25E-06	2.48E-05	2.98E-08
315	420460.55	3734329.76	8.83E-05	4.04E-04	8.83E-07	1.21E-05	5.52E-05	1.32E-07	7.43E-06	2.54E-05	3.05E-08
316	420460.51	3734339.62	9.03E-05	4.13E-04	9.02E-07	1.24E-05	5.64E-05	1.34E-07	7.59E-06	2.59E-05	3.12E-08
317	420460.47	3734349.48	9.19E-05	4.20E-04	9.18E-07	1.26E-05	5.74E-05	1.37E-07	7.73E-06	2.64E-05	3.17E-08
318	420462.39	3734247.27	6.51E-05	2.98E-04	6.51E-07	8.93E-06	4.07E-05	9.69E-08	5.48E-06	1.87E-05	2.25E-08
319	420466.73	3734238.68	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
320	420471.06	3734230.09	6.16E-05	2.82E-04	6.15E-07	8.44E-06	3.85E-05	9.17E-08	5.18E-06	1.77E-05	2.13E-08
321	420475.4	3734221.49	5.95E-05	2.72E-04	5.95E-07	8.16E-06	3.72E-05	8.86E-08	5.01E-06	1.71E-05	2.06E-08
322	420479.73	3734212.9	5.73E-05	2.62E-04	5.73E-07	7.86E-06	3.58E-05	8.53E-08	4.82E-06	1.65E-05	1.98E-08
323	420484.07	3734204.31	5.50E-05	2.52E-04	5.50E-07	7.55E-06	3.44E-05	8.19E-08	4.63E-06	1.58E-05	1.90E-08
324	420488.41	3734195.71	5.27E-05	2.41E-04	5.27E-07	7.23E-06	3.30E-05	7.85E-08	4.44E-06	1.52E-05	1.82E-08
325	420492.74	3734187.12	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.51E-08	4.24E-06	1.45E-05	1.74E-08
326	420514.42	3734144.16	3.97E-05	1.81E-04	3.97E-07	5.44E-06	2.48E-05	5.91E-08	3.34E-06	1.14E-05	1.37E-08
327	420518.76	3734135.57	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
328	420523.09	3734126.97	3.60E-05	1.65E-04	3.60E-07	4.94E-06	2.25E-05	5.36E-08	3.03E-06	1.03E-05	1.24E-08
329	420527.43	3734118.38	3.43E-05	1.57E-04	3.43E-07	4.70E-06	2.15E-05	5.11E-08	2.89E-06	9.86E-06	1.19E-08
330	420531.76	3734109.79	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.41E-06	1.13E-08
331	420536.1	3734101.19	3.13E-05	1.43E-04	3.12E-07	4.28E-06	1.95E-05	4.65E-08	2.63E-06	8.98E-06	1.08E-08
332	420540.43	3734092.6	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
333	420544.77	3734084.01	2.86E-05	1.31E-04	2.85E-07	3.92E-06	1.79E-05	4.25E-08	2.40E-06	8.21E-06	9.87E-09
334	420549.11	3734075.42	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
335	420562.92	3734065.13	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.20E-06	7.53E-06	9.05E-09
336	420572.39	3734063.43	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.21E-06	7.53E-06	9.06E-09
337	420581.86	3734061.74	2.63E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.54E-06	9.07E-09
338	420591.34	3734060.05	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.64E-05	3.92E-08	2.21E-06	7.56E-06	9.09E-09
339	420600.81	3734058.35	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.58E-06	9.11E-09
340	420638.71	3734051.57	2.68E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.25E-09
341	420648.18	3734049.88	2.69E-05	1.23E-04	2.69E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.72E-06	9.29E-09
342	420657.66	3734048.18	2.70E-05	1.23E-04	2.70E-07	3.70E-06	1.69E-05	4.02E-08	2.27E-06	7.76E-06	9.33E-09
343	420667.13	3734046.49	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.69E-05	4.03E-08	2.28E-06	7.79E-06	9.37E-09
344	420676.61	3734044.79	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
345	420686.08	3734043.1	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.85E-06	9.44E-09
346	420695.55	3734041.4	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.71E-05	4.08E-08	2.30E-06	7.87E-06	9.47E-09
347	420705.03	3734039.71	2.75E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
348	420714.5	3734038.02	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.10E-08	2.32E-06	7.91E-06	9.51E-09
349	420723.98	3734036.32	2.75E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.91E-06	9.52E-09
350	420733.45	3734034.63	2.76E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.92E-06	9.52E-09
351	420752.4	3734031.24	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.09E-08	2.31E-06	7.90E-06	9.50E-09
352	420761.87	3734029.54	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.72E-05	4.08E-08	2.31E-06	7.88E-06	9.48E-09
353	420771.35	3734027.85	2.74E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
354	420780.82	3734026.15	2.72E-05	1.25E-04	2.72E-07	3.73E-06	1.70E-05	4.06E-08	2.29E-06	7.83E-06	9.41E-09
355	420790.3	3734024.46	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.79E-06	9.37E-09
356	420442.28	3734247.41	5.99E-05	2.74E-04	5.98E-07	8.21E-06	3.74E-05	8.91E-08	5.04E-06	1.72E-05	2.07E-08
357	420446.59	3734238.86	5.87E-05	2.69E-04	5.87E-07	8.05E-06	3.67E-05	8.74E-08	4.94E-06	1.69E-05	2.03E-08
358	420450.91	3734230.31	5.74E-05	2.62E-04	5.74E-07	7.87E-06	3.59E-05	8.54E-08	4.83E-06	1.65E-05	1.98E-08
359	420455.22	3734221.76	5.59E-05	2.55E-04	5.58E-07	7.66E-06	3.49E-05	8.32E-08	4.70E-06	1.61E-05	1.93E-08
360	420459.53	3734213.21	5.42E-05	2.48E-04	5.41E-07	7.43E-06	3.39E-05	8.06E-08	4.56E-06	1.56E-05	1.87E-08
361	420463.85	3734204.66	5.24E-05	2.39E-04	5.23E-07	7.18E-06	3.27E-05	7.80E-08	4.41E-06	1.50E-05	1.81E-08
362	420468.16	3734196.12	5.05E-05	2.31E-04	5.05E-07	6.92E-06	3.16E-05	7.51E-08	4.25E-06	1.45E-05	1.74E-08
363	420472.48	3734187.57	4.85E-05	2.22E-04	4.85E-07	6.65E-06	3.03E-05	7.22E-08	4.08E-06	1.39E-05	1.68E-08
364	420476.79	3734179.02	4.66E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
365	420481.1	3734170.47	4.46E-05	2.04E-04	4.46E-07	6.11E-06	2.79E-05	6.64E-08	3.75E-06	1.28E-05	1.54E-08
366	420511.3	3734110.63	3.24E-05	1.48E-04	3.23E-07	4.44E-06	2.02E-05	4.82E-08	2.72E-06	9.30E-06	1.12E-08
367	420515.61	3734102.08	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
368	420519.93	3734093.53	2.96E-05	1.35E-04	2.95E-07	4.05E-06	1.85E-05	4.40E-08	2.49E-06	8.49E-06	1.02E-08

369	420524.24	3734084.98	2.83E-05	1.29E-04	2.83E-07	3.88E-06	1.77E-05	4.21E-08	2.38E-06	8.13E-06	9.77E-09
370	420528.55	3734076.43	2.71E-05	1.24E-04	2.71E-07	3.71E-06	1.69E-05	4.03E-08	2.28E-06	7.78E-06	9.36E-09
371	420532.87	3734067.88	2.59E-05	1.19E-04	2.59E-07	3.56E-06	1.62E-05	3.86E-08	2.18E-06	7.46E-06	8.97E-09
372	420537.18	3734059.33	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
373	420579.2	3734044.04	2.39E-05	1.09E-04	2.39E-07	3.28E-06	1.50E-05	3.56E-08	2.01E-06	6.88E-06	8.27E-09
374	420588.62	3734042.35	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.57E-08	2.02E-06	6.89E-06	8.29E-09
375	420598.05	3734040.67	2.41E-05	1.10E-04	2.40E-07	3.30E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.31E-09
376	420607.47	3734038.98	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
377	420635.75	3734033.92	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.63E-08	2.05E-06	7.01E-06	8.43E-09
378	420645.18	3734032.24	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.04E-06	8.47E-09
379	420654.6	3734030.55	2.46E-05	1.13E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.51E-09
380	420664.03	3734028.87	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
381	420673.46	3734027.18	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.57E-09
382	420682.88	3734025.5	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
383	420692.31	3734023.81	2.50E-05	1.14E-04	2.50E-07	3.42E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.63E-09
384	420701.73	3734022.12	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.57E-05	3.73E-08	2.11E-06	7.19E-06	8.65E-09
385	420711.16	3734020.44	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
386	420720.59	3734018.75	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.68E-09
387	420730.01	3734017.07	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.12E-06	7.23E-06	8.69E-09
388	420758.29	3734012.01	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
389	420767.72	3734010.32	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.19E-06	8.65E-09
390	420777.14	3734008.64	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
391	420786.57	3734006.95	2.48E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.58E-09
392	420795.99	3734005.26	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.11E-06	8.54E-09
393	420420.71	3734290.15	6.18E-05	2.83E-04	6.18E-07	8.48E-06	3.87E-05	9.21E-08	5.20E-06	1.78E-05	2.14E-08
394	420420.67	3734300.01	6.32E-05	2.89E-04	6.32E-07	8.67E-06	3.95E-05	9.41E-08	5.32E-06	1.82E-05	2.19E-08
395	420420.63	3734309.87	6.45E-05	2.95E-04	6.44E-07	8.84E-06	4.03E-05	9.60E-08	5.42E-06	1.85E-05	2.23E-08
396	420420.59	3734319.73	6.55E-05	3.00E-04	6.55E-07	8.98E-06	4.10E-05	9.75E-08	5.51E-06	1.88E-05	2.26E-08
397	420420.55	3734329.59	6.64E-05	3.03E-04	6.63E-07	9.10E-06	4.15E-05	9.88E-08	5.58E-06	1.91E-05	2.29E-08
398	420420.51	3734339.45	6.71E-05	3.07E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
399	420420.47	3734349.31	6.76E-05	3.09E-04	6.75E-07	9.26E-06	4.22E-05	1.01E-07	5.68E-06	1.94E-05	2.33E-08
400	420398.38	3734254.99	5.01E-05	2.29E-04	5.00E-07	6.86E-06	3.13E-05	7.45E-08	4.21E-06	1.44E-05	1.73E-08
401	420402.79	3734246.24	4.99E-05	2.28E-04	4.98E-07	6.84E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
402	420407.21	3734237.48	4.95E-05	2.26E-04	4.94E-07	6.78E-06	3.09E-05	7.36E-08	4.16E-06	1.42E-05	1.71E-08
403	420411.62	3734228.73	4.89E-05	2.23E-04	4.88E-07	6.70E-06	3.06E-05	7.28E-08	4.11E-06	1.40E-05	1.69E-08
404	420416.04	3734219.98	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.16E-08	4.05E-06	1.38E-05	1.66E-08
405	420420.45	3734211.23	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.02E-08	3.97E-06	1.36E-05	1.63E-08
406	420424.87	3734202.48	4.61E-05	2.11E-04	4.61E-07	6.32E-06	2.88E-05	6.86E-08	3.88E-06	1.32E-05	1.59E-08
407	420429.28	3734193.73	4.49E-05	2.05E-04	4.49E-07	6.16E-06	2.81E-05	6.68E-08	3.78E-06	1.29E-05	1.55E-08
408	420433.7	3734184.98	4.36E-05	1.99E-04	4.36E-07	5.98E-06	2.73E-05	6.49E-08	3.67E-06	1.25E-05	1.51E-08
409	420438.12	3734176.23	4.22E-05	1.93E-04	4.22E-07	5.79E-06	2.64E-05	6.28E-08	3.55E-06	1.21E-05	1.46E-08
410	420442.53	3734167.48	4.07E-05	1.86E-04	4.07E-07	5.58E-06	2.55E-05	6.06E-08	3.43E-06	1.17E-05	1.41E-08
411	420455.78	3734141.22	3.62E-05	1.66E-04	3.62E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
412	420460.19	3734132.47	3.48E-05	1.59E-04	3.48E-07	4.77E-06	2.17E-05	5.18E-08	2.93E-06	9.99E-06	1.20E-08
413	420464.61	3734123.72	3.33E-05	1.52E-04	3.33E-07	4.57E-06	2.08E-05	4.96E-08	2.80E-06	9.58E-06	1.15E-08
414	420469.03	3734114.97	3.19E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.75E-08	2.69E-06	9.17E-06	1.10E-08
415	420473.44	3734106.22	3.06E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
416	420477.86	3734097.47	2.93E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
417	420482.27	3734088.72	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.05E-06	9.68E-09
418	420486.69	3734079.96	2.68E-05	1.23E-04	2.68E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.71E-06	9.27E-09
419	420491.1	3734071.21	2.57E-05	1.18E-04	2.57E-07	3.52E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
420	420508.77	3734036.21	2.18E-05	9.96E-05	2.18E-07	2.99E-06	1.36E-05	3.24E-08	1.83E-06	6.26E-06	7.53E-09
421	420513.18	3734027.46	2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
422	420527.25	3734016.98	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
423	420536.9	3734015.25	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
424	420546.54	3734013.53	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
425	420556.19	3734011.8	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
426	420565.84	3734010.08	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.95E-09
427	420575.49	3734008.35	2.02E-05	9.22E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.70E-06	5.79E-06	6.97E-09
428	420585.14	3734006.63	2.02E-05	9.24E-05	2.02E-07	2.77E-06	1.26E-05	3.01E-08	1.70E-06	5.81E-06	6.98E-09
429	420594.79	3734004.9	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
430	420604.44	3734003.17	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.03E-09

431	420614.09	3734001.45	2.04E-05	9.33E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.05E-09
432	420633.38	3733998	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
433	420643.03	3733996.27	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.14E-09
434	420652.68	3733994.54	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
435	420662.33	3733992.82	2.08E-05	9.52E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.20E-09
436	420671.98	3733991.09	2.09E-05	9.56E-05	2.09E-07	2.87E-06	1.31E-05	3.11E-08	1.76E-06	6.01E-06	7.22E-09
437	420681.63	3733989.37	2.10E-05	9.59E-05	2.10E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.03E-06	7.25E-09
438	420691.28	3733987.64	2.10E-05	9.62E-05	2.10E-07	2.88E-06	1.32E-05	3.13E-08	1.77E-06	6.04E-06	7.27E-09
439	420700.93	3733985.92	2.11E-05	9.64E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.77E-06	6.06E-06	7.29E-09
440	420710.58	3733984.19	2.11E-05	9.66E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.07E-06	7.30E-09
441	420720.22	3733982.46	2.12E-05	9.68E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
442	420729.87	3733980.74	2.12E-05	9.69E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.09E-06	7.32E-09
443	420758.82	3733975.56	2.12E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
444	420768.47	3733973.83	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.07E-06	7.30E-09
445	420778.12	3733972.11	2.11E-05	9.63E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.28E-09
446	420787.77	3733970.38	2.10E-05	9.60E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
447	420797.42	3733968.66	2.09E-05	9.56E-05	2.09E-07	2.87E-06	1.31E-05	3.11E-08	1.76E-06	6.01E-06	7.23E-09
448	420807.06	3733966.93	2.08E-05	9.52E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
449	420380.71	3734289.99	4.89E-05	2.24E-04	4.89E-07	6.71E-06	3.06E-05	7.28E-08	4.12E-06	1.41E-05	1.69E-08
450	420380.67	3734299.85	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.10E-05	7.37E-08	4.17E-06	1.42E-05	1.71E-08
451	420380.63	3734309.71	5.00E-05	2.29E-04	5.00E-07	6.86E-06	3.13E-05	7.45E-08	4.21E-06	1.44E-05	1.73E-08
452	420380.59	3734319.57	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.50E-08	4.24E-06	1.45E-05	1.74E-08
453	420380.55	3734329.43	5.07E-05	2.32E-04	5.07E-07	6.95E-06	3.17E-05	7.55E-08	4.26E-06	1.46E-05	1.75E-08
454	420380.51	3734339.29	5.08E-05	2.32E-04	5.08E-07	6.97E-06	3.18E-05	7.57E-08	4.28E-06	1.46E-05	1.76E-08
455	420380.47	3734349.15	5.09E-05	2.33E-04	5.09E-07	6.98E-06	3.18E-05	7.58E-08	4.28E-06	1.46E-05	1.76E-08
456	420358.2	3734255.18	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
457	420362.57	3734246.51	4.12E-05	1.88E-04	4.12E-07	5.65E-06	2.58E-05	6.13E-08	3.47E-06	1.18E-05	1.42E-08
458	420366.94	3734237.85	4.13E-05	1.89E-04	4.12E-07	5.66E-06	2.58E-05	6.14E-08	3.47E-06	1.19E-05	1.43E-08
459	420388.8	3734194.54	3.95E-05	1.81E-04	3.95E-07	5.42E-06	2.47E-05	5.89E-08	3.33E-06	1.14E-05	1.37E-08
460	420393.17	3734185.87	3.88E-05	1.78E-04	3.88E-07	5.32E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
461	420397.54	3734177.21	3.80E-05	1.74E-04	3.80E-07	5.21E-06	2.38E-05	5.66E-08	3.20E-06	1.09E-05	1.31E-08
462	420401.91	3734168.55	3.71E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.12E-06	1.07E-05	1.28E-08
463	420415.02	3734142.56	3.40E-05	1.56E-04	3.40E-07	4.66E-06	2.13E-05	5.06E-08	2.86E-06	9.78E-06	1.18E-08
464	420419.39	3734133.9	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.45E-06	1.14E-08
465	420423.76	3734125.23	3.18E-05	1.45E-04	3.18E-07	4.36E-06	1.99E-05	4.73E-08	2.67E-06	9.13E-06	1.10E-08
466	420428.14	3734116.57	3.06E-05	1.40E-04	3.06E-07	4.20E-06	1.92E-05	4.56E-08	2.58E-06	8.81E-06	1.06E-08
467	420432.51	3734107.91	2.95E-05	1.35E-04	2.95E-07	4.05E-06	1.85E-05	4.40E-08	2.48E-06	8.48E-06	1.02E-08
468	420436.88	3734099.25	2.84E-05	1.30E-04	2.84E-07	3.89E-06	1.78E-05	4.23E-08	2.39E-06	8.16E-06	9.82E-09
469	420441.25	3734090.58	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.44E-09
470	420445.62	3734081.92	2.63E-05	1.20E-04	2.63E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
471	420449.99	3734073.26	2.53E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.76E-08	2.12E-06	7.26E-06	8.73E-09
472	420454.36	3734064.59	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.61E-08	2.04E-06	6.97E-06	8.39E-09
473	420467.48	3734038.61	2.16E-05	9.85E-05	2.15E-07	2.95E-06	1.35E-05	3.21E-08	1.81E-06	6.19E-06	7.45E-09
474	420471.85	3734029.94	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
475	420476.22	3734021.28	2.00E-05	9.12E-05	1.99E-07	2.74E-06	1.25E-05	2.97E-08	1.68E-06	5.73E-06	6.90E-09
476	420480.59	3734012.62	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
477	420484.96	3734003.95	1.85E-05	8.47E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.32E-06	6.40E-09
478	420489.33	3733995.29	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
479	420512.81	3733983.21	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
480	420522.36	3733981.5	1.72E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.93E-09
481	420531.91	3733979.79	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
482	420541.46	3733978.09	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
483	420551.01	3733976.38	1.72E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.93E-09
484	420560.56	3733974.67	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
485	420570.11	3733972.96	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.94E-06	5.95E-09
486	420579.67	3733971.25	1.72E-05	7.89E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.96E-09
487	420589.22	3733969.54	1.73E-05	7.91E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.46E-06	4.97E-06	5.98E-09
488	420598.77	3733967.84	1.74E-05	7.93E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.99E-06	6.00E-09
489	420608.32	3733966.13	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.02E-09
490	420636.98	3733961	1.76E-05	8.05E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
491	420646.53	3733959.29	1.77E-05	8.09E-05	1.77E-07	2.42E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
492	420656.08	3733957.58	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.13E-09

493	420665.63	3733955.88	1.78E-05	8.14E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
494	420675.18	3733954.17	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.14E-06	6.18E-09
495	420684.73	3733952.46	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.20E-09
496	420694.29	3733950.75	1.80E-05	8.22E-05	1.80E-07	2.47E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
497	420703.84	3733949.04	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.23E-09
498	420340.71	3734289.83	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
499	420340.67	3734299.69	3.91E-05	1.79E-04	3.91E-07	5.36E-06	2.45E-05	5.83E-08	3.29E-06	1.12E-05	1.35E-08
500	420340.63	3734309.55	3.93E-05	1.80E-04	3.93E-07	5.38E-06	2.46E-05	5.85E-08	3.30E-06	1.13E-05	1.36E-08
501	420340.59	3734319.41	3.94E-05	1.80E-04	3.93E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
502	420340.55	3734329.27	3.94E-05	1.80E-04	3.94E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
503	420340.51	3734339.13	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
504	420340.47	3734348.99	3.92E-05	1.79E-04	3.92E-07	5.38E-06	2.45E-05	5.84E-08	3.30E-06	1.13E-05	1.36E-08
505	420340.39	3734368.71	3.89E-05	1.78E-04	3.89E-07	5.34E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
506	420318.06	3734255.3	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.64E-06	1.16E-08
507	420322.39	3734246.7	3.39E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.85E-06	9.75E-06	1.17E-08
508	420326.73	3734238.11	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
509	420331.06	3734229.52	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.90E-06	9.89E-06	1.19E-08
510	420335.4	3734220.92	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.14E-08	2.91E-06	9.92E-06	1.19E-08
511	420339.73	3734212.33	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.14E-08	2.91E-06	9.92E-06	1.19E-08
512	420344.07	3734203.74	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.13E-08	2.90E-06	9.90E-06	1.19E-08
513	420348.41	3734195.15	3.42E-05	1.57E-04	3.42E-07	4.69E-06	2.14E-05	5.10E-08	2.88E-06	9.84E-06	1.18E-08
514	420352.74	3734186.55	3.40E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.76E-06	1.17E-08
515	420357.08	3734177.96	3.36E-05	1.53E-04	3.36E-07	4.60E-06	2.10E-05	5.00E-08	2.82E-06	9.65E-06	1.16E-08
516	420361.41	3734169.37	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.78E-06	9.51E-06	1.14E-08
517	420387.43	3734117.81	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.43E-06	8.28E-06	9.96E-09
518	420391.76	3734109.22	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.35E-06	8.04E-06	9.67E-09
519	420396.1	3734100.63	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.80E-06	9.38E-09
520	420400.43	3734092.03	2.63E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
521	420404.77	3734083.44	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.78E-09
522	420409.11	3734074.85	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
523	420413.44	3734066.26	2.37E-05	1.08E-04	2.37E-07	3.25E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.18E-09
524	420426.45	3734040.48	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.79E-06	6.10E-06	7.33E-09
525	420430.78	3734031.88	2.05E-05	9.36E-05	2.05E-07	2.81E-06	1.28E-05	3.05E-08	1.72E-06	5.88E-06	7.07E-09
526	420435.12	3734023.29	1.97E-05	9.02E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.82E-09
527	420439.46	3734014.7	1.90E-05	8.70E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.57E-09
528	420443.79	3734006.11	1.83E-05	8.39E-05	1.83E-07	2.52E-06	1.15E-05	2.73E-08	1.54E-06	5.27E-06	6.34E-09
529	420448.13	3733997.51	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
530	420452.46	3733988.92	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
531	420456.8	3733980.33	1.65E-05	7.55E-05	1.65E-07	2.26E-06	1.03E-05	2.46E-08	1.39E-06	4.74E-06	5.70E-09
532	420461.13	3733971.74	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
533	420465.47	3733963.14	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.29E-08	1.30E-06	4.43E-06	5.33E-09
534	420479.28	3733952.86	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
535	420488.75	3733951.16	1.49E-05	6.79E-05	1.48E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
536	420630.87	3733925.74	1.52E-05	6.96E-05	1.52E-07	2.09E-06	9.51E-06	2.27E-08	1.28E-06	4.37E-06	5.26E-09
537	420640.34	3733924.05	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.29E-06	4.39E-06	5.28E-09
538	420649.82	3733922.35	1.53E-05	7.01E-05	1.53E-07	2.10E-06	9.59E-06	2.28E-08	1.29E-06	4.41E-06	5.30E-09
539	420659.29	3733920.66	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.42E-06	5.32E-09
540	420668.77	3733918.96	1.55E-05	7.07E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
541	420678.24	3733917.27	1.55E-05	7.09E-05	1.55E-07	2.13E-06	9.70E-06	2.31E-08	1.30E-06	4.46E-06	5.36E-09
542	420687.71	3733915.57	1.55E-05	7.11E-05	1.55E-07	2.13E-06	9.72E-06	2.31E-08	1.31E-06	4.47E-06	5.37E-09
543	420697.19	3733913.88	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
544	420706.66	3733912.19	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.77E-06	2.33E-08	1.31E-06	4.49E-06	5.40E-09
545	420716.14	3733910.49	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
546	420725.61	3733908.8	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
547	420735.09	3733907.1	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
548	420744.56	3733905.41	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
549	420754.03	3733903.71	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
550	420763.51	3733902.02	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
551	420772.98	3733900.32	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
552	420782.46	3733898.63	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.77E-06	2.33E-08	1.31E-06	4.49E-06	5.40E-09
553	420791.93	3733896.93	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
554	420801.41	3733895.24	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.73E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09

555	420810.88	3733893.54	1.55E-05	7.10E-05	1.55E-07	2.13E-06	9.70E-06	2.31E-08	1.31E-06	4.46E-06	5.36E-09
556	420820.35	3733891.85	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.67E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
557	420829.83	3733890.16	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.43E-06	5.32E-09
558	420300.51	3734338.97	3.11E-05	1.42E-04	3.10E-07	4.26E-06	1.94E-05	4.62E-08	2.61E-06	8.92E-06	1.07E-08
559	420300.47	3734348.83	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
560	420300.39	3734368.55	3.06E-05	1.40E-04	3.06E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.79E-06	1.06E-08
561	420278.35	3734254.55	2.76E-05	1.26E-04	2.76E-07	3.78E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
562	420282.76	3734245.81	2.80E-05	1.28E-04	2.80E-07	3.85E-06	1.75E-05	4.18E-08	2.36E-06	8.06E-06	9.69E-09
563	420287.17	3734237.07	2.84E-05	1.30E-04	2.84E-07	3.90E-06	1.78E-05	4.23E-08	2.39E-06	8.17E-06	9.83E-09
564	420291.58	3734228.33	2.88E-05	1.31E-04	2.87E-07	3.94E-06	1.80E-05	4.28E-08	2.42E-06	8.26E-06	9.94E-09
565	420295.99	3734219.59	2.90E-05	1.33E-04	2.90E-07	3.98E-06	1.81E-05	4.32E-08	2.44E-06	8.34E-06	1.00E-08
566	420300.4	3734210.85	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.83E-05	4.35E-08	2.46E-06	8.39E-06	1.01E-08
567	420304.81	3734202.12	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.36E-08	2.46E-06	8.42E-06	1.01E-08
568	420309.22	3734193.38	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.36E-08	2.47E-06	8.43E-06	1.01E-08
569	420313.63	3734184.64	2.93E-05	1.34E-04	2.93E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
570	420318.04	3734175.9	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.34E-08	2.45E-06	8.37E-06	1.01E-08
571	420335.67	3734140.94	2.79E-05	1.27E-04	2.79E-07	3.82E-06	1.74E-05	4.15E-08	2.35E-06	8.01E-06	9.64E-09
572	420340.08	3734132.2	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.71E-05	4.08E-08	2.31E-06	7.88E-06	9.47E-09
573	420344.49	3734123.47	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.29E-09
574	420348.9	3734114.73	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.21E-06	7.56E-06	9.10E-09
575	420353.31	3734105.99	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
576	420357.72	3734097.25	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
577	420362.13	3734088.51	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.64E-08	2.06E-06	7.02E-06	8.44E-09
578	420366.54	3734079.77	2.38E-05	1.09E-04	2.37E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
579	420388.59	3734036.08	2.03E-05	9.26E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.70E-06	5.82E-06	7.00E-09
580	420393	3734027.34	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.77E-09
581	420397.41	3734018.6	1.89E-05	8.65E-05	1.89E-07	2.59E-06	1.18E-05	2.82E-08	1.59E-06	5.44E-06	6.54E-09
582	420401.82	3734009.86	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
583	420406.23	3734001.12	1.76E-05	8.07E-05	1.76E-07	2.42E-06	1.10E-05	2.63E-08	1.48E-06	5.07E-06	6.10E-09
584	420410.64	3733992.38	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
585	420415.04	3733983.64	1.65E-05	7.52E-05	1.64E-07	2.26E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.69E-09
586	420419.45	3733974.91	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.49E-09
587	420423.86	3733966.17	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
588	420428.27	3733957.43	1.49E-05	6.79E-05	1.49E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
589	420455.55	3733920.75	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.13E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
590	420465.18	3733919.03	1.30E-05	5.93E-05	1.30E-07	1.78E-06	8.11E-06	1.93E-08	1.09E-06	3.73E-06	4.48E-09
591	420474.82	3733917.3	1.29E-05	5.92E-05	1.29E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
592	420484.45	3733915.58	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.47E-09
593	420494.09	3733913.86	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
594	420503.72	3733912.13	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
595	420513.36	3733910.41	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
596	420522.99	3733908.68	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
597	420532.63	3733906.96	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
598	420542.26	3733905.24	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.09E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
599	420551.9	3733903.51	1.30E-05	5.92E-05	1.30E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.48E-09
600	420561.54	3733901.79	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
601	420571.17	3733900.07	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
602	420580.81	3733898.34	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.75E-06	4.52E-09
603	420590.44	3733896.62	1.31E-05	6.00E-05	1.31E-07	1.80E-06	8.20E-06	1.95E-08	1.10E-06	3.77E-06	4.53E-09
604	420600.08	3733894.9	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
605	420638.62	3733888	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
606	420648.25	3733886.28	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.39E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
607	420657.89	3733884.56	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
608	420667.52	3733882.83	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
609	420677.16	3733881.11	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
610	420686.8	3733879.39	1.36E-05	6.22E-05	1.36E-07	1.86E-06	8.51E-06	2.03E-08	1.14E-06	3.91E-06	4.70E-09
611	420696.43	3733877.66	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
612	420706.07	3733875.94	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.72E-09
613	420715.7	3733874.22	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.94E-06	4.73E-09
614	420725.34	3733872.49	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.57E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
615	420734.97	3733870.77	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
616	420744.61	3733869.05	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09

617	420754.24	3733867.32	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
618	420763.88	3733865.6	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
619	420773.51	3733863.88	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
620	420783.15	3733862.15	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
621	420792.78	3733860.43	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.94E-06	4.73E-09
622	420802.42	3733858.71	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
623	420812.06	3733856.98	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
624	420821.69	3733855.26	1.36E-05	6.22E-05	1.36E-07	1.86E-06	8.51E-06	2.03E-08	1.14E-06	3.91E-06	4.70E-09
625	420831.33	3733853.54	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
626	420840.96	3733851.81	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.44E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
627	420260.71	3734289.5	2.54E-05	1.16E-04	2.54E-07	3.49E-06	1.59E-05	3.79E-08	2.14E-06	7.31E-06	8.79E-09
628	420260.67	3734299.36	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.78E-09
629	420260.63	3734309.22	2.53E-05	1.16E-04	2.53E-07	3.47E-06	1.58E-05	3.77E-08	2.13E-06	7.28E-06	8.75E-09
630	420260.59	3734319.08	2.52E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.75E-08	2.12E-06	7.25E-06	8.72E-09
631	420260.55	3734328.94	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.74E-08	2.11E-06	7.21E-06	8.68E-09
632	420260.51	3734338.8	2.50E-05	1.14E-04	2.50E-07	3.42E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.63E-09
633	420260.47	3734348.66	2.48E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.59E-09
634	420260.39	3734368.38	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
635	420238.22	3734254.65	2.29E-05	1.05E-04	2.29E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
636	420242.59	3734245.98	2.33E-05	1.06E-04	2.33E-07	3.19E-06	1.46E-05	3.47E-08	1.96E-06	6.69E-06	8.05E-09
637	420246.97	3734237.31	2.37E-05	1.08E-04	2.37E-07	3.25E-06	1.48E-05	3.53E-08	1.99E-06	6.81E-06	8.18E-09
638	420264.48	3734202.61	2.49E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.59E-09
639	420268.85	3734193.94	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.73E-08	2.11E-06	7.19E-06	8.65E-09
640	420273.23	3734185.27	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.12E-06	7.23E-06	8.69E-09
641	420277.6	3734176.6	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.58E-05	3.75E-08	2.12E-06	7.24E-06	8.71E-09
642	420295.11	3734141.9	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
643	420299.48	3734133.23	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.06E-06	8.49E-09
644	420303.86	3734124.56	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.62E-08	2.04E-06	6.98E-06	8.40E-09
645	420308.24	3734115.89	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.57E-08	2.02E-06	6.89E-06	8.28E-09
646	420312.61	3734107.21	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
647	420316.99	3734098.54	2.32E-05	1.06E-04	2.32E-07	3.18E-06	1.45E-05	3.45E-08	1.95E-06	6.66E-06	8.02E-09
648	420321.36	3734089.87	2.28E-05	1.04E-04	2.28E-07	3.12E-06	1.42E-05	3.39E-08	1.91E-06	6.54E-06	7.87E-09
649	420325.74	3734081.2	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.71E-09
650	420330.12	3734072.52	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.83E-06	6.27E-06	7.53E-09
651	420334.49	3734063.85	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.11E-06	7.35E-09
652	420338.87	3734055.18	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
653	420347.62	3734037.83	1.96E-05	8.97E-05	1.96E-07	2.69E-06	1.23E-05	2.92E-08	1.65E-06	5.64E-06	6.78E-09
654	420352	3734029.16	1.91E-05	8.71E-05	1.90E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
655	420356.37	3734020.49	1.85E-05	8.45E-05	1.85E-07	2.53E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
656	420360.75	3734011.81	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.19E-09
657	420365.13	3734003.14	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
658	420387.01	3733959.78	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
659	420391.38	3733951.1	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
660	420404.51	3733925.09	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
661	420408.89	3733916.41	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
662	420413.26	3733907.74	1.22E-05	5.60E-05	1.22E-07	1.68E-06	7.65E-06	1.82E-08	1.03E-06	3.52E-06	4.23E-09
663	420417.64	3733899.07	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.41E-06	4.11E-09
664	420431.58	3733888.68	1.15E-05	5.26E-05	1.15E-07	1.58E-06	7.19E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
665	420441.14	3733886.97	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
666	420450.7	3733885.26	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.15E-06	1.70E-08	9.62E-07	3.29E-06	3.95E-09
667	420460.27	3733883.55	1.14E-05	5.22E-05	1.14E-07	1.56E-06	7.14E-06	1.70E-08	9.60E-07	3.28E-06	3.94E-09
668	420469.83	3733881.84	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.70E-08	9.59E-07	3.27E-06	3.94E-09
669	420479.39	3733880.13	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
670	420488.95	3733878.42	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
671	420498.52	3733876.71	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
672	420508.08	3733875	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
673	420517.64	3733873.29	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.69E-08	9.58E-07	3.27E-06	3.93E-09
674	420527.2	3733871.58	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
675	420536.77	3733869.87	1.14E-05	5.22E-05	1.14E-07	1.57E-06	7.14E-06	1.70E-08	9.61E-07	3.28E-06	3.95E-09
676	420546.33	3733868.16	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.15E-06	1.70E-08	9.62E-07	3.29E-06	3.95E-09
677	420555.89	3733866.45	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
678	420565.45	3733864.74	1.15E-05	5.26E-05	1.15E-07	1.58E-06	7.19E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09

679	420575.02	3733863.03	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
680	420584.58	3733861.32	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.74E-07	3.33E-06	4.00E-09
681	420594.14	3733859.61	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
682	420603.7	3733857.9	1.17E-05	5.33E-05	1.17E-07	1.60E-06	7.29E-06	1.74E-08	9.81E-07	3.35E-06	4.03E-09
683	420747.14	3733832.24	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
684	420756.7	3733830.53	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
685	420766.27	3733828.82	1.22E-05	5.57E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.21E-09
686	420775.83	3733827.11	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
687	420785.39	3733825.4	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.49E-06	4.20E-09
688	420794.95	3733823.69	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.59E-06	1.81E-08	1.02E-06	3.49E-06	4.20E-09
689	420804.52	3733821.98	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.58E-06	1.81E-08	1.02E-06	3.48E-06	4.19E-09
690	420814.08	3733820.27	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
691	420823.64	3733818.56	1.21E-05	5.52E-05	1.21E-07	1.65E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
692	420833.2	3733816.85	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
693	420842.77	3733815.14	1.20E-05	5.49E-05	1.20E-07	1.64E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
694	420852.33	3733813.43	1.20E-05	5.47E-05	1.19E-07	1.64E-06	7.47E-06	1.78E-08	1.01E-06	3.43E-06	4.13E-09
695	420220.71	3734289.34	2.10E-05	9.58E-05	2.10E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
696	420220.67	3734299.2	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
697	420220.63	3734309.06	2.08E-05	9.50E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
698	420220.59	3734318.92	2.07E-05	9.46E-05	2.07E-07	2.83E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
699	420220.55	3734328.78	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
700	420220.51	3734338.64	2.05E-05	9.35E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.88E-06	7.07E-09
701	420220.47	3734348.5	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.02E-09
702	420220.39	3734368.22	2.01E-05	9.18E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
703	420198.46	3734254.01	1.91E-05	8.75E-05	1.91E-07	2.62E-06	1.20E-05	2.85E-08	1.61E-06	5.50E-06	6.61E-09
704	420202.9	3734245.21	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
705	420207.34	3734236.42	1.99E-05	9.10E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.72E-06	6.87E-09
706	420211.77	3734227.63	2.02E-05	9.26E-05	2.02E-07	2.78E-06	1.27E-05	3.01E-08	1.70E-06	5.82E-06	7.00E-09
707	420216.21	3734218.83	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
708	420220.65	3734210.04	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
709	420225.08	3734201.25	2.11E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
710	420229.52	3734192.45	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.18E-08	1.80E-06	6.14E-06	7.39E-09
711	420233.96	3734183.66	2.16E-05	9.86E-05	2.16E-07	2.96E-06	1.35E-05	3.21E-08	1.82E-06	6.20E-06	7.46E-09
712	420238.39	3734174.87	2.17E-05	9.93E-05	2.17E-07	2.98E-06	1.36E-05	3.23E-08	1.83E-06	6.24E-06	7.51E-09
713	420265.01	3734122.11	2.17E-05	9.91E-05	2.17E-07	2.97E-06	1.35E-05	3.23E-08	1.82E-06	6.23E-06	7.49E-09
714	420269.45	3734113.32	2.15E-05	9.83E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
715	420273.89	3734104.52	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.12E-06	7.36E-09
716	420278.32	3734095.73	2.10E-05	9.62E-05	2.10E-07	2.88E-06	1.31E-05	3.13E-08	1.77E-06	6.04E-06	7.27E-09
717	420282.76	3734086.94	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.75E-06	5.96E-06	7.17E-09
718	420287.2	3734078.14	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
719	420291.64	3734069.35	2.01E-05	9.18E-05	2.01E-07	2.75E-06	1.26E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
720	420296.07	3734060.56	1.97E-05	9.01E-05	1.97E-07	2.70E-06	1.23E-05	2.93E-08	1.66E-06	5.66E-06	6.81E-09
721	420309.38	3734034.18	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
722	420313.82	3734025.39	1.80E-05	8.22E-05	1.80E-07	2.47E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
723	420318.26	3734016.59	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
724	420322.69	3734007.8	1.71E-05	7.80E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.90E-06	5.89E-09
725	420327.13	3733999.01	1.66E-05	7.58E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.73E-09
726	420331.57	3733990.21	1.61E-05	7.37E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.63E-06	5.57E-09
727	420336	3733981.42	1.56E-05	7.15E-05	1.56E-07	2.15E-06	9.78E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
728	420340.44	3733972.63	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.50E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
729	420344.88	3733963.83	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
730	420349.31	3733955.04	1.43E-05	6.53E-05	1.43E-07	1.96E-06	8.93E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
731	420362.62	3733928.66	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.15E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
732	420384.81	3733884.7	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.01E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
733	420389.25	3733875.9	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.77E-09
734	420393.68	3733867.11	1.06E-05	4.84E-05	1.06E-07	1.45E-06	6.62E-06	1.58E-08	8.91E-07	3.04E-06	3.66E-09
735	420407.81	3733856.58	1.03E-05	4.69E-05	1.03E-07	1.41E-06	6.42E-06	1.53E-08	8.64E-07	2.95E-06	3.55E-09
736	420417.51	3733854.85	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
737	420427.21	3733853.11	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.38E-06	1.52E-08	8.58E-07	2.93E-06	3.53E-09
738	420436.9	3733851.38	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
739	420446.6	3733849.65	1.02E-05	4.64E-05	1.01E-07	1.39E-06	6.35E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
740	420456.29	3733847.91	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09

741	420465.99	3733846.18	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
742	420475.68	3733844.44	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.51E-07	2.91E-06	3.50E-09
743	420485.38	3733842.71	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.51E-07	2.91E-06	3.50E-09
744	420495.07	3733840.97	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
745	420504.77	3733839.24	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
746	420514.46	3733837.51	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
747	420524.16	3733835.77	1.02E-05	4.64E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
748	420533.85	3733834.04	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
749	420543.55	3733832.3	1.02E-05	4.66E-05	1.02E-07	1.40E-06	6.38E-06	1.52E-08	8.58E-07	2.93E-06	3.52E-09
750	420553.24	3733830.57	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.60E-07	2.94E-06	3.53E-09
751	420562.94	3733828.84	1.03E-05	4.69E-05	1.03E-07	1.41E-06	6.41E-06	1.53E-08	8.63E-07	2.95E-06	3.54E-09
752	420572.63	3733827.1	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
753	420582.33	3733825.37	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
754	420592.02	3733823.63	1.04E-05	4.74E-05	1.04E-07	1.42E-06	6.48E-06	1.54E-08	8.72E-07	2.98E-06	3.58E-09
755	420601.72	3733821.9	1.04E-05	4.76E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.60E-09
756	420640.5	3733814.96	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
757	420650.2	3733813.23	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.92E-07	3.05E-06	3.66E-09
758	420659.89	3733811.49	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.65E-06	1.58E-08	8.95E-07	3.06E-06	3.68E-09
759	420669.59	3733809.76	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
760	420679.28	3733808.03	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.70E-06	1.59E-08	9.01E-07	3.08E-06	3.70E-09
761	420688.98	3733806.29	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.72E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
762	420698.67	3733804.56	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.74E-06	1.60E-08	9.07E-07	3.10E-06	3.72E-09
763	420708.37	3733802.82	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
764	420718.06	3733801.09	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.10E-07	3.11E-06	3.74E-09
765	420727.76	3733799.36	1.08E-05	4.96E-05	1.08E-07	1.49E-06	6.78E-06	1.61E-08	9.12E-07	3.12E-06	3.75E-09
766	420737.45	3733797.62	1.09E-05	4.96E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
767	420747.15	3733795.89	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.12E-06	3.76E-09
768	420756.84	3733794.15	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
769	420766.54	3733792.42	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
770	420776.23	3733790.69	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
771	420785.93	3733788.95	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
772	420795.62	3733787.22	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.76E-09
773	420805.32	3733785.48	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
774	420815.01	3733783.75	1.08E-05	4.95E-05	1.08E-07	1.49E-06	6.77E-06	1.61E-08	9.12E-07	3.11E-06	3.74E-09
775	420824.71	3733782.01	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.76E-06	1.61E-08	9.10E-07	3.11E-06	3.74E-09
776	420834.4	3733780.28	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.08E-07	3.10E-06	3.73E-09
777	420844.1	3733778.55	1.08E-05	4.92E-05	1.08E-07	1.47E-06	6.73E-06	1.60E-08	9.05E-07	3.09E-06	3.72E-09
778	420853.8	3733776.81	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.02E-07	3.08E-06	3.71E-09
779	420863.49	3733775.08	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
780	420180.71	3734289.18	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.60E-08	1.47E-06	5.03E-06	6.05E-09
781	420180.67	3734299.04	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.02E-09
782	420180.63	3734308.9	1.73E-05	7.92E-05	1.73E-07	2.37E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.98E-09
783	420180.59	3734318.76	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
784	420180.55	3734328.62	1.71E-05	7.83E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.92E-06	5.92E-09
785	420180.51	3734338.48	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
786	420180.47	3734348.34	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
787	420180.39	3734368.06	1.67E-05	7.64E-05	1.67E-07	2.29E-06	1.04E-05	2.49E-08	1.41E-06	4.80E-06	5.77E-09
788	420158.34	3734254.09	1.61E-05	7.38E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.64E-06	5.58E-09
789	420162.74	3734245.36	1.65E-05	7.54E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.74E-06	5.70E-09
790	420167.15	3734236.63	1.68E-05	7.69E-05	1.68E-07	2.31E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.81E-09
791	420171.56	3734227.9	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
792	420175.96	3734219.16	1.74E-05	7.98E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.01E-06	6.03E-09
793	420180.37	3734210.43	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.13E-09
794	420184.77	3734201.7	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.22E-09
795	420189.18	3734192.97	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
796	420193.58	3734184.24	1.85E-05	8.46E-05	1.85E-07	2.54E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
797	420197.99	3734175.51	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
798	420211.21	3734149.31	1.91E-05	8.74E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
799	420215.61	3734140.58	1.92E-05	8.77E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.61E-06	5.51E-06	6.63E-09
800	420220.02	3734131.85	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
801	420224.43	3734123.12	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
802	420228.83	3734114.38	1.92E-05	8.77E-05	1.92E-07	2.63E-06	1.20E-05	2.85E-08	1.61E-06	5.51E-06	6.63E-09

803	420233.24	3734105.65	1.91E-05	8.73E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
804	420237.64	3734096.92	1.90E-05	8.68E-05	1.90E-07	2.60E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.56E-09
805	420242.05	3734088.19	1.88E-05	8.62E-05	1.88E-07	2.58E-06	1.18E-05	2.81E-08	1.59E-06	5.41E-06	6.51E-09
806	420246.45	3734079.46	1.87E-05	8.53E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.36E-06	6.45E-09
807	420268.48	3734035.8	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
808	420272.89	3734027.07	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
809	420277.3	3734018.34	1.67E-05	7.64E-05	1.67E-07	2.29E-06	1.04E-05	2.49E-08	1.41E-06	4.80E-06	5.77E-09
810	420281.7	3734009.6	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
811	420286.11	3734000.87	1.60E-05	7.31E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
812	420290.51	3733992.14	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.76E-06	2.32E-08	1.31E-06	4.49E-06	5.39E-09
813	420294.92	3733983.41	1.52E-05	6.96E-05	1.52E-07	2.09E-06	9.52E-06	2.27E-08	1.28E-06	4.38E-06	5.26E-09
814	420299.32	3733974.68	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
815	420303.73	3733965.95	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.04E-06	2.15E-08	1.22E-06	4.15E-06	5.00E-09
816	420308.14	3733957.21	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.80E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
817	420312.54	3733948.48	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
818	420325.76	3733922.29	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.87E-06	1.87E-08	1.06E-06	3.62E-06	4.35E-09
819	420330.17	3733913.56	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.65E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
820	420334.57	3733904.82	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
821	420338.98	3733896.09	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
822	420343.38	3733887.36	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.45E-07	3.23E-06	3.88E-09
823	420347.79	3733878.63	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.82E-06	1.62E-08	9.18E-07	3.14E-06	3.77E-09
824	420352.19	3733869.9	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.93E-07	3.05E-06	3.67E-09
825	420356.6	3733861.16	1.03E-05	4.72E-05	1.03E-07	1.41E-06	6.45E-06	1.54E-08	8.68E-07	2.96E-06	3.57E-09
826	420361.01	3733852.43	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.49E-08	8.45E-07	2.89E-06	3.47E-09
827	420365.41	3733843.7	9.77E-06	4.47E-05	9.77E-08	1.34E-06	6.11E-06	1.45E-08	8.22E-07	2.81E-06	3.38E-09
828	420383.85	3733824.52	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
829	420393.48	3733822.79	9.21E-06	4.21E-05	9.20E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.18E-09
830	420403.11	3733821.07	9.18E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.72E-07	2.64E-06	3.17E-09
831	420412.73	3733819.35	9.16E-06	4.19E-05	9.15E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.16E-09
832	420422.36	3733817.63	9.14E-06	4.18E-05	9.13E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
833	420431.99	3733815.91	9.12E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
834	420441.62	3733814.18	9.10E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.66E-07	2.61E-06	3.14E-09
835	420451.24	3733812.46	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.68E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
836	420460.87	3733810.74	9.08E-06	4.15E-05	9.08E-08	1.24E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
837	420470.5	3733809.02	9.08E-06	4.15E-05	9.07E-08	1.24E-06	5.67E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
838	420480.13	3733807.3	9.08E-06	4.15E-05	9.08E-08	1.24E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
839	420489.75	3733805.57	9.09E-06	4.15E-05	9.08E-08	1.25E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
840	420499.38	3733803.85	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
841	420509.01	3733802.13	9.10E-06	4.16E-05	9.10E-08	1.25E-06	5.69E-06	1.36E-08	7.66E-07	2.62E-06	3.15E-09
842	420518.64	3733800.41	9.12E-06	4.17E-05	9.12E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
843	420528.26	3733798.69	9.14E-06	4.18E-05	9.14E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
844	420537.89	3733796.96	9.16E-06	4.19E-05	9.16E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.17E-09
845	420547.52	3733795.24	9.19E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.73E-07	2.64E-06	3.17E-09
846	420557.15	3733793.52	9.22E-06	4.21E-05	9.21E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.19E-09
847	420566.77	3733791.8	9.25E-06	4.23E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.78E-07	2.66E-06	3.19E-09
848	420576.4	3733790.08	9.28E-06	4.24E-05	9.27E-08	1.27E-06	5.80E-06	1.38E-08	7.80E-07	2.67E-06	3.21E-09
849	420586.03	3733788.35	9.31E-06	4.26E-05	9.31E-08	1.28E-06	5.82E-06	1.39E-08	7.84E-07	2.68E-06	3.22E-09
850	420595.66	3733786.63	9.35E-06	4.27E-05	9.34E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
851	420605.28	3733784.91	9.39E-06	4.29E-05	9.38E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.24E-09
852	420634.17	3733779.74	9.49E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
853	420643.79	3733778.02	9.53E-06	4.36E-05	9.52E-08	1.31E-06	5.96E-06	1.42E-08	8.02E-07	2.74E-06	3.29E-09
854	420653.42	3733776.3	9.56E-06	4.37E-05	9.56E-08	1.31E-06	5.98E-06	1.42E-08	8.05E-07	2.75E-06	3.30E-09
855	420663.05	3733774.58	9.59E-06	4.38E-05	9.59E-08	1.31E-06	6.00E-06	1.43E-08	8.07E-07	2.76E-06	3.31E-09
856	420672.68	3733772.86	9.63E-06	4.40E-05	9.62E-08	1.32E-06	6.02E-06	1.43E-08	8.10E-07	2.77E-06	3.33E-09
857	420682.3	3733771.13	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
858	420691.93	3733769.41	9.69E-06	4.43E-05	9.68E-08	1.33E-06	6.06E-06	1.44E-08	8.15E-07	2.78E-06	3.35E-09
859	420701.56	3733767.69	9.71E-06	4.44E-05	9.70E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.35E-09
860	420711.19	3733765.97	9.73E-06	4.45E-05	9.72E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
861	420720.81	3733764.25	9.75E-06	4.46E-05	9.74E-08	1.34E-06	6.10E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
862	420730.44	3733762.52	9.77E-06	4.47E-05	9.76E-08	1.34E-06	6.11E-06	1.45E-08	8.22E-07	2.81E-06	3.38E-09
863	420740.07	3733760.8	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
864	420749.7	3733759.08	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09

865	420759.32	3733757.36	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
866	420768.95	3733755.64	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
867	420778.58	3733753.91	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
868	420788.21	3733752.19	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
869	420797.83	3733750.47	9.80E-06	4.48E-05	9.79E-08	1.34E-06	6.13E-06	1.46E-08	8.24E-07	2.82E-06	3.39E-09
870	420807.46	3733748.75	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
871	420817.09	3733747.03	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
872	420826.72	3733745.3	9.76E-06	4.46E-05	9.76E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.81E-06	3.37E-09
873	420836.34	3733743.58	9.74E-06	4.46E-05	9.74E-08	1.34E-06	6.09E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
874	420845.97	3733741.86	9.72E-06	4.45E-05	9.72E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
875	420855.6	3733740.14	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
876	420865.23	3733738.42	9.67E-06	4.42E-05	9.67E-08	1.33E-06	6.05E-06	1.44E-08	8.14E-07	2.78E-06	3.34E-09
877	420874.85	3733736.69	9.64E-06	4.41E-05	9.64E-08	1.32E-06	6.03E-06	1.44E-08	8.11E-07	2.77E-06	3.33E-09
878	420140.71	3734289.02	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
879	420140.67	3734298.88	1.47E-05	6.72E-05	1.47E-07	2.01E-06	9.19E-06	2.19E-08	1.24E-06	4.22E-06	5.08E-09
880	420140.63	3734308.74	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.14E-06	2.18E-08	1.23E-06	4.20E-06	5.05E-09
881	420140.59	3734318.6	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.18E-06	5.02E-09
882	420140.55	3734328.46	1.44E-05	6.61E-05	1.44E-07	1.98E-06	9.03E-06	2.15E-08	1.22E-06	4.15E-06	4.99E-09
883	420140.51	3734338.32	1.44E-05	6.57E-05	1.44E-07	1.97E-06	8.98E-06	2.14E-08	1.21E-06	4.13E-06	4.96E-09
884	420140.47	3734348.18	1.43E-05	6.53E-05	1.43E-07	1.96E-06	8.93E-06	2.13E-08	1.20E-06	4.10E-06	4.93E-09
885	420140.39	3734367.9	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
886	420118.23	3734254.14	1.38E-05	6.29E-05	1.38E-07	1.89E-06	8.61E-06	2.05E-08	1.16E-06	3.96E-06	4.76E-09
887	420122.61	3734245.46	1.41E-05	6.43E-05	1.40E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
888	420126.99	3734236.78	1.43E-05	6.56E-05	1.43E-07	1.97E-06	8.97E-06	2.13E-08	1.21E-06	4.12E-06	4.96E-09
889	420144.51	3734202.07	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.30E-08	1.30E-06	4.43E-06	5.33E-09
890	420148.89	3734193.39	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
891	420153.27	3734184.71	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
892	420157.64	3734176.03	1.61E-05	7.37E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.63E-06	5.57E-09
893	420170.78	3734149.99	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
894	420175.16	3734141.31	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.79E-09
895	420179.54	3734132.64	1.69E-05	7.71E-05	1.69E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
896	420183.92	3734123.96	1.69E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.85E-09
897	420188.3	3734115.28	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
898	420192.68	3734106.6	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
899	420197.06	3734097.92	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
900	420201.44	3734089.24	1.69E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.86E-09
901	420205.82	3734080.56	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
902	420210.19	3734071.88	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.80E-09
903	420214.57	3734063.2	1.67E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.79E-06	5.75E-09
904	420232.09	3734028.49	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.50E-09
905	420236.47	3734019.81	1.57E-05	7.18E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
906	420240.85	3734011.13	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
907	420245.23	3734002.45	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
908	420262.74	3733967.74	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.76E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
909	420267.12	3733959.06	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
910	420271.5	3733950.38	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
911	420284.64	3733924.34	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
912	420289.02	3733915.66	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
913	420293.4	3733906.99	1.18E-05	5.39E-05	1.18E-07	1.62E-06	7.37E-06	1.76E-08	9.92E-07	3.39E-06	4.08E-09
914	420297.78	3733898.31	1.15E-05	5.25E-05	1.15E-07	1.58E-06	7.18E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
915	420302.16	3733889.63	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.67E-08	9.41E-07	3.21E-06	3.87E-09
916	420306.54	3733880.95	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
917	420310.92	3733872.27	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.92E-07	3.05E-06	3.66E-09
918	420315.3	3733863.59	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
919	420319.67	3733854.91	1.01E-05	4.60E-05	1.00E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.47E-09
920	420324.05	3733846.23	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
921	420328.43	3733837.55	9.54E-06	4.36E-05	9.53E-08	1.31E-06	5.96E-06	1.42E-08	8.02E-07	2.74E-06	3.30E-09
922	420341.57	3733811.52	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
923	420345.95	3733802.84	8.61E-06	3.94E-05	8.61E-08	1.18E-06	5.38E-06	1.28E-08	7.25E-07	2.47E-06	2.98E-09
924	420359.9	3733792.45	8.38E-06	3.83E-05	8.37E-08	1.15E-06	5.24E-06	1.25E-08	7.05E-07	2.41E-06	2.89E-09
925	420388.61	3733787.31	8.30E-06	3.79E-05	8.30E-08	1.14E-06	5.19E-06	1.24E-08	6.98E-07	2.38E-06	2.87E-09
926	420398.17	3733785.6	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09

927	420407.74	3733783.89	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
928	420417.31	3733782.18	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
929	420426.88	3733780.47	8.23E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
930	420436.45	3733778.76	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
931	420446.02	3733777.04	8.21E-06	3.76E-05	8.21E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
932	420455.59	3733775.33	8.21E-06	3.75E-05	8.20E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
933	420465.16	3733773.62	8.21E-06	3.75E-05	8.20E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
934	420474.73	3733771.91	8.21E-06	3.76E-05	8.21E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
935	420484.3	3733770.2	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
936	420493.87	3733768.49	8.23E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
937	420503.44	3733766.77	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
938	420513.01	3733765.06	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
939	420522.57	3733763.35	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
940	420532.14	3733761.64	8.30E-06	3.79E-05	8.29E-08	1.14E-06	5.19E-06	1.23E-08	6.98E-07	2.38E-06	2.87E-09
941	420541.71	3733759.93	8.32E-06	3.81E-05	8.32E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.88E-09
942	420551.28	3733758.22	8.35E-06	3.82E-05	8.34E-08	1.14E-06	5.22E-06	1.24E-08	7.02E-07	2.40E-06	2.88E-09
943	420560.85	3733756.51	8.37E-06	3.83E-05	8.37E-08	1.15E-06	5.23E-06	1.25E-08	7.04E-07	2.41E-06	2.89E-09
944	420570.42	3733754.79	8.40E-06	3.84E-05	8.40E-08	1.15E-06	5.25E-06	1.25E-08	7.07E-07	2.41E-06	2.90E-09
945	420579.99	3733753.08	8.44E-06	3.86E-05	8.43E-08	1.16E-06	5.27E-06	1.26E-08	7.10E-07	2.42E-06	2.92E-09
946	420589.56	3733751.37	8.47E-06	3.87E-05	8.46E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.93E-09
947	420599.13	3733749.66	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.31E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
948	420608.7	3733747.95	8.54E-06	3.90E-05	8.53E-08	1.17E-06	5.34E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
949	420618.27	3733746.24	8.57E-06	3.92E-05	8.56E-08	1.17E-06	5.36E-06	1.28E-08	7.21E-07	2.46E-06	2.96E-09
950	420646.97	3733741.1	8.66E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
951	420656.54	3733739.39	8.69E-06	3.97E-05	8.69E-08	1.19E-06	5.43E-06	1.29E-08	7.31E-07	2.50E-06	3.00E-09
952	420666.11	3733737.68	8.72E-06	3.99E-05	8.71E-08	1.20E-06	5.45E-06	1.30E-08	7.33E-07	2.51E-06	3.01E-09
953	420675.68	3733735.97	8.75E-06	4.00E-05	8.74E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.51E-06	3.02E-09
954	420685.25	3733734.25	8.77E-06	4.01E-05	8.77E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
955	420694.82	3733732.54	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
956	420704.39	3733730.83	8.82E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.42E-07	2.53E-06	3.05E-09
957	420713.96	3733729.12	8.84E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.32E-08	7.43E-07	2.54E-06	3.05E-09
958	420723.53	3733727.41	8.85E-06	4.05E-05	8.85E-08	1.21E-06	5.54E-06	1.32E-08	7.45E-07	2.54E-06	3.06E-09
959	420733.1	3733725.7	8.87E-06	4.06E-05	8.87E-08	1.22E-06	5.55E-06	1.32E-08	7.46E-07	2.55E-06	3.07E-09
960	420742.67	3733723.98	8.89E-06	4.06E-05	8.88E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.55E-06	3.07E-09
961	420752.24	3733722.27	8.89E-06	4.07E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.56E-06	3.07E-09
962	420761.81	3733720.56	8.90E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
963	420771.37	3733718.85	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
964	420780.94	3733717.14	8.91E-06	4.08E-05	8.91E-08	1.22E-06	5.57E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
965	420790.51	3733715.43	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
966	420800.08	3733713.72	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
967	420809.65	3733712	8.90E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
968	420819.22	3733710.29	8.89E-06	4.07E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.56E-06	3.07E-09
969	420828.79	3733708.58	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
970	420838.36	3733706.87	8.87E-06	4.05E-05	8.86E-08	1.22E-06	5.54E-06	1.32E-08	7.46E-07	2.55E-06	3.06E-09
971	420847.93	3733705.16	8.85E-06	4.05E-05	8.84E-08	1.21E-06	5.53E-06	1.32E-08	7.45E-07	2.54E-06	3.06E-09
972	420857.5	3733703.45	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
973	420867.07	3733701.73	8.81E-06	4.03E-05	8.80E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.04E-09
974	420876.64	3733700.02	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
975	420886.21	3733698.31	8.76E-06	4.01E-05	8.76E-08	1.20E-06	5.48E-06	1.30E-08	7.37E-07	2.52E-06	3.03E-09
976	420100.72	3734288.85	1.26E-05	5.78E-05	1.26E-07	1.73E-06	7.90E-06	1.88E-08	1.06E-06	3.63E-06	4.37E-09
977	420100.68	3734298.71	1.26E-05	5.74E-05	1.26E-07	1.72E-06	7.85E-06	1.87E-08	1.06E-06	3.61E-06	4.34E-09
978	420100.64	3734308.57	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
979	420100.6	3734318.43	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
980	420100.56	3734328.29	1.23E-05	5.65E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
981	420100.52	3734338.15	1.23E-05	5.62E-05	1.23E-07	1.68E-06	7.68E-06	1.83E-08	1.03E-06	3.53E-06	4.24E-09
982	420100.48	3734348.01	1.22E-05	5.58E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
983	420100.4	3734367.73	1.21E-05	5.52E-05	1.21E-07	1.66E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
984	420078.43	3734253.59	1.19E-05	5.42E-05	1.19E-07	1.63E-06	7.42E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
985	420082.86	3734244.81	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
986	420087.29	3734236.03	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
987	420091.72	3734227.25	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
988	420096.14	3734218.48	1.29E-05	5.88E-05	1.28E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09

989	420100.57	3734209.7	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
990	420105	3734200.92	1.33E-05	6.09E-05	1.33E-07	1.83E-06	8.33E-06	1.98E-08	1.12E-06	3.83E-06	4.61E-09
991	420109.43	3734192.15	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
992	420113.86	3734183.37	1.38E-05	6.30E-05	1.38E-07	1.89E-06	8.61E-06	2.05E-08	1.16E-06	3.96E-06	4.76E-09
993	420118.29	3734174.59	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.02E-06	4.83E-09
994	420144.86	3734121.93	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
995	420149.29	3734113.16	1.50E-05	6.87E-05	1.50E-07	2.06E-06	9.40E-06	2.24E-08	1.26E-06	4.32E-06	5.19E-09
996	420153.72	3734104.38	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.44E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
997	420158.15	3734095.6	1.51E-05	6.92E-05	1.51E-07	2.07E-06	9.46E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
998	420162.57	3734086.83	1.52E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.24E-09
999	420167	3734078.05	1.51E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.23E-09
1000	420171.43	3734069.27	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
1001	420175.86	3734060.49	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.42E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
1002	420189.15	3734034.16	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
1003	420193.57	3734025.39	1.46E-05	6.69E-05	1.46E-07	2.01E-06	9.15E-06	2.18E-08	1.23E-06	4.21E-06	5.06E-09
1004	420198	3734016.61	1.45E-05	6.63E-05	1.45E-07	1.99E-06	9.06E-06	2.16E-08	1.22E-06	4.16E-06	5.01E-09
1005	420202.43	3734007.83	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
1006	420206.86	3733999.06	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
1007	420211.29	3733990.28	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.70E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
1008	420215.72	3733981.5	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.57E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
1009	420220.15	3733972.73	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
1010	420224.57	3733963.95	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1011	420229	3733955.17	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
1012	420260	3733893.73	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
1013	420264.43	3733884.96	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
1014	420268.86	3733876.18	1.06E-05	4.84E-05	1.06E-07	1.45E-06	6.62E-06	1.58E-08	8.91E-07	3.04E-06	3.66E-09
1015	420273.29	3733867.4	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
1016	420277.72	3733858.63	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
1017	420282.15	3733849.85	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
1018	420286.58	3733841.07	9.58E-06	4.38E-05	9.57E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
1019	420299.86	3733814.74	8.88E-06	4.06E-05	8.87E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
1020	420304.29	3733805.97	8.65E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
1021	420308.72	3733797.19	8.44E-06	3.86E-05	8.44E-08	1.16E-06	5.28E-06	1.26E-08	7.10E-07	2.43E-06	2.92E-09
1022	420313.15	3733788.41	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
1023	420317.58	3733779.64	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
1024	420322	3733770.86	7.85E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.71E-09
1025	420336.11	3733760.35	7.65E-06	3.50E-05	7.64E-08	1.05E-06	4.78E-06	1.14E-08	6.43E-07	2.20E-06	2.64E-09
1026	420345.79	3733758.62	7.62E-06	3.48E-05	7.61E-08	1.04E-06	4.76E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
1027	420355.46	3733756.89	7.60E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1028	420365.14	3733755.16	7.57E-06	3.46E-05	7.57E-08	1.04E-06	4.73E-06	1.13E-08	6.37E-07	2.18E-06	2.62E-09
1029	420384.5	3733751.7	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
1030	420394.17	3733749.97	7.51E-06	3.44E-05	7.51E-08	1.03E-06	4.70E-06	1.12E-08	6.32E-07	2.16E-06	2.60E-09
1031	420403.85	3733748.23	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1032	420413.53	3733746.5	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1033	420423.21	3733744.77	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1034	420432.88	3733743.04	7.48E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1035	420442.56	3733741.31	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1036	420452.24	3733739.58	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1037	420461.91	3733737.85	7.48E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1038	420471.59	3733736.12	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1039	420481.27	3733734.39	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1040	420490.95	3733732.66	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1041	420500.62	3733730.93	7.52E-06	3.44E-05	7.51E-08	1.03E-06	4.70E-06	1.12E-08	6.32E-07	2.16E-06	2.60E-09
1042	420510.3	3733729.19	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
1043	420519.98	3733727.46	7.55E-06	3.45E-05	7.55E-08	1.03E-06	4.72E-06	1.12E-08	6.35E-07	2.17E-06	2.61E-09
1044	420529.66	3733725.73	7.57E-06	3.46E-05	7.57E-08	1.04E-06	4.73E-06	1.13E-08	6.37E-07	2.18E-06	2.62E-09
1045	420539.33	3733724	7.60E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1046	420549.01	3733722.27	7.62E-06	3.49E-05	7.62E-08	1.04E-06	4.77E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
1047	420558.69	3733720.54	7.65E-06	3.50E-05	7.65E-08	1.05E-06	4.78E-06	1.14E-08	6.44E-07	2.20E-06	2.64E-09
1048	420568.36	3733718.81	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
1049	420578.04	3733717.08	7.71E-06	3.52E-05	7.70E-08	1.06E-06	4.82E-06	1.15E-08	6.49E-07	2.22E-06	2.66E-09
1050	420587.72	3733715.35	7.74E-06	3.54E-05	7.73E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09

1051	420597.4	3733713.62	7.77E-06	3.55E-05	7.76E-08	1.06E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.68E-09
1052	420607.07	3733711.89	7.80E-06	3.57E-05	7.80E-08	1.07E-06	4.88E-06	1.16E-08	6.56E-07	2.24E-06	2.70E-09
1053	420616.75	3733710.15	7.83E-06	3.58E-05	7.83E-08	1.07E-06	4.90E-06	1.17E-08	6.59E-07	2.25E-06	2.71E-09
1054	420626.43	3733708.42	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
1055	420665.14	3733701.5	7.97E-06	3.64E-05	7.96E-08	1.09E-06	4.98E-06	1.19E-08	6.70E-07	2.29E-06	2.75E-09
1056	420674.81	3733699.77	8.00E-06	3.66E-05	7.99E-08	1.10E-06	5.00E-06	1.19E-08	6.73E-07	2.30E-06	2.76E-09
1057	420684.49	3733698.04	8.02E-06	3.67E-05	8.01E-08	1.10E-06	5.01E-06	1.19E-08	6.75E-07	2.30E-06	2.77E-09
1058	420694.17	3733696.31	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
1059	420703.85	3733694.58	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1060	420713.52	3733692.85	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1061	420723.2	3733691.11	8.10E-06	3.70E-05	8.09E-08	1.11E-06	5.06E-06	1.20E-08	6.81E-07	2.33E-06	2.80E-09
1062	420732.88	3733689.38	8.11E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1063	420742.56	3733687.65	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1064	420752.23	3733685.92	8.14E-06	3.72E-05	8.13E-08	1.12E-06	5.09E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1065	420761.91	3733684.19	8.14E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1066	420771.59	3733682.46	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1067	420781.26	3733680.73	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1068	420790.94	3733679	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1069	420800.62	3733677.27	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1070	420810.3	3733675.54	8.15E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1071	420819.97	3733673.81	8.14E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1072	420829.65	3733672.07	8.14E-06	3.72E-05	8.13E-08	1.12E-06	5.09E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1073	420839.33	3733670.34	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1074	420849.01	3733668.61	8.11E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1075	420858.68	3733666.88	8.10E-06	3.70E-05	8.09E-08	1.11E-06	5.06E-06	1.20E-08	6.81E-07	2.33E-06	2.80E-09
1076	420868.36	3733665.15	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1077	420878.04	3733663.42	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1078	420887.71	3733661.69	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
1079	420897.39	3733659.96	8.02E-06	3.67E-05	8.02E-08	1.10E-06	5.02E-06	1.19E-08	6.75E-07	2.31E-06	2.77E-09
1080	420060.72	3734288.69	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.83E-06	1.63E-08	9.19E-07	3.14E-06	3.77E-09
1081	420060.68	3734298.55	1.09E-05	4.96E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
1082	420060.64	3734308.41	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
1083	420060.6	3734318.27	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
1084	420060.56	3734328.13	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
1085	420060.52	3734337.99	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
1086	420060.48	3734347.85	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
1087	420060.44	3734357.71	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.57E-06	1.56E-08	8.84E-07	3.02E-06	3.63E-09
1088	420060.4	3734367.57	1.05E-05	4.78E-05	1.04E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.00E-06	3.61E-09
1089	420042.73	3734244.9	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
1090	420047.14	3734236.17	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.02E-07	3.08E-06	3.71E-09
1091	420051.54	3734227.44	1.09E-05	5.00E-05	1.09E-07	1.50E-06	6.84E-06	1.63E-08	9.20E-07	3.14E-06	3.78E-09
1092	420055.94	3734218.71	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
1093	420060.35	3734209.99	1.14E-05	5.19E-05	1.13E-07	1.56E-06	7.10E-06	1.69E-08	9.55E-07	3.26E-06	3.92E-09
1094	420064.75	3734201.26	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
1095	420069.15	3734192.53	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
1096	420073.56	3734183.81	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.14E-09
1097	420077.96	3734175.08	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
1098	420091.17	3734148.9	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
1099	420095.57	3734140.17	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.05E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
1100	420099.98	3734131.44	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
1101	420104.38	3734122.72	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
1102	420108.79	3734113.99	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.30E-06	1.98E-08	1.12E-06	3.82E-06	4.59E-09
1103	420113.19	3734105.26	1.34E-05	6.12E-05	1.34E-07	1.83E-06	8.37E-06	1.99E-08	1.13E-06	3.85E-06	4.63E-09
1104	420117.59	3734096.54	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
1105	420122	3734087.81	1.35E-05	6.19E-05	1.35E-07	1.86E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.68E-09
1106	420126.4	3734079.08	1.36E-05	6.21E-05	1.36E-07	1.86E-06	8.49E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
1107	420152.82	3734026.72	1.35E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
1108	420157.22	3734017.99	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
1109	420161.63	3734009.27	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
1110	420166.03	3734000.54	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
1111	420170.43	3733991.81	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
1112	420174.84	3733983.09	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09

1113	420179.24	3733974.36	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
1114	420183.64	3733965.63	1.25E-05	5.73E-05	1.25E-07	1.72E-06	7.84E-06	1.87E-08	1.06E-06	3.60E-06	4.33E-09
1115	420188.05	3733956.91	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
1116	420205.66	3733922	1.16E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
1117	420210.06	3733913.27	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
1118	420214.47	3733904.54	1.11E-05	5.08E-05	1.11E-07	1.52E-06	6.95E-06	1.65E-08	9.35E-07	3.19E-06	3.84E-09
1119	420218.87	3733895.82	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.76E-09
1120	420223.28	3733887.09	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.67E-06	1.59E-08	8.97E-07	3.07E-06	3.69E-09
1121	420227.68	3733878.36	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.78E-07	3.00E-06	3.61E-09
1122	420232.08	3733869.64	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.59E-07	2.93E-06	3.53E-09
1123	420236.49	3733860.91	9.99E-06	4.57E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
1124	420240.89	3733852.18	9.76E-06	4.46E-05	9.75E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.80E-06	3.37E-09
1125	420262.91	3733808.55	8.67E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
1126	420267.31	3733799.82	8.47E-06	3.87E-05	8.46E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.93E-09
1127	420271.71	3733791.09	8.27E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
1128	420276.12	3733782.37	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1129	420280.52	3733773.64	7.89E-06	3.61E-05	7.89E-08	1.08E-06	4.93E-06	1.17E-08	6.64E-07	2.27E-06	2.73E-09
1130	420284.92	3733764.91	7.71E-06	3.53E-05	7.71E-08	1.06E-06	4.82E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
1131	420289.33	3733756.19	7.54E-06	3.45E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.17E-06	2.60E-09
1132	420293.73	3733747.46	7.37E-06	3.37E-05	7.36E-08	1.01E-06	4.61E-06	1.10E-08	6.20E-07	2.12E-06	2.55E-09
1133	420298.13	3733738.73	7.20E-06	3.29E-05	7.20E-08	9.88E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
1134	420312.16	3733728.28	7.02E-06	3.21E-05	7.02E-08	9.63E-07	4.39E-06	1.05E-08	5.91E-07	2.02E-06	2.43E-09
1135	420321.78	3733726.56	7.00E-06	3.20E-05	7.00E-08	9.60E-07	4.38E-06	1.04E-08	5.89E-07	2.01E-06	2.42E-09
1136	420331.4	3733724.84	6.97E-06	3.19E-05	6.97E-08	9.56E-07	4.36E-06	1.04E-08	5.87E-07	2.00E-06	2.41E-09
1137	420341.03	3733723.12	6.95E-06	3.18E-05	6.95E-08	9.53E-07	4.34E-06	1.03E-08	5.85E-07	2.00E-06	2.40E-09
1138	420350.65	3733721.4	6.93E-06	3.17E-05	6.93E-08	9.50E-07	4.33E-06	1.03E-08	5.83E-07	1.99E-06	2.40E-09
1139	420360.27	3733719.68	6.91E-06	3.16E-05	6.91E-08	9.48E-07	4.32E-06	1.03E-08	5.82E-07	1.99E-06	2.39E-09
1140	420389.14	3733714.51	6.87E-06	3.14E-05	6.87E-08	9.42E-07	4.30E-06	1.02E-08	5.78E-07	1.97E-06	2.37E-09
1141	420398.76	3733712.79	6.86E-06	3.14E-05	6.86E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1142	420408.38	3733711.07	6.85E-06	3.13E-05	6.85E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1143	420418	3733709.35	6.85E-06	3.13E-05	6.85E-08	9.39E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1144	420427.63	3733707.63	6.85E-06	3.13E-05	6.84E-08	9.38E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1145	420437.25	3733705.91	6.85E-06	3.13E-05	6.84E-08	9.38E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1146	420446.87	3733704.19	6.85E-06	3.13E-05	6.85E-08	9.39E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1147	420456.49	3733702.47	6.85E-06	3.13E-05	6.85E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1148	420466.12	3733700.75	6.86E-06	3.14E-05	6.86E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1149	420475.74	3733699.02	6.87E-06	3.14E-05	6.87E-08	9.42E-07	4.30E-06	1.02E-08	5.78E-07	1.97E-06	2.37E-09
1150	420485.36	3733697.3	6.88E-06	3.15E-05	6.88E-08	9.43E-07	4.30E-06	1.02E-08	5.79E-07	1.98E-06	2.38E-09
1151	420494.98	3733695.58	6.90E-06	3.15E-05	6.90E-08	9.46E-07	4.31E-06	1.03E-08	5.80E-07	1.98E-06	2.38E-09
1152	420504.61	3733693.86	6.91E-06	3.16E-05	6.91E-08	9.48E-07	4.32E-06	1.03E-08	5.82E-07	1.99E-06	2.39E-09
1153	420514.23	3733692.14	6.93E-06	3.17E-05	6.93E-08	9.50E-07	4.33E-06	1.03E-08	5.83E-07	1.99E-06	2.40E-09
1154	420523.85	3733690.42	6.95E-06	3.18E-05	6.95E-08	9.53E-07	4.34E-06	1.03E-08	5.85E-07	2.00E-06	2.40E-09
1155	420533.47	3733688.7	6.97E-06	3.19E-05	6.97E-08	9.56E-07	4.36E-06	1.04E-08	5.87E-07	2.00E-06	2.41E-09
1156	420543.09	3733686.98	7.00E-06	3.20E-05	6.99E-08	9.59E-07	4.37E-06	1.04E-08	5.89E-07	2.01E-06	2.42E-09
1157	420552.72	3733685.26	7.02E-06	3.21E-05	7.02E-08	9.63E-07	4.39E-06	1.05E-08	5.91E-07	2.02E-06	2.43E-09
1158	420562.34	3733683.53	7.05E-06	3.22E-05	7.05E-08	9.66E-07	4.41E-06	1.05E-08	5.93E-07	2.03E-06	2.44E-09
1159	420571.96	3733681.81	7.07E-06	3.23E-05	7.07E-08	9.69E-07	4.42E-06	1.05E-08	5.95E-07	2.03E-06	2.44E-09
1160	420581.58	3733680.09	7.10E-06	3.25E-05	7.10E-08	9.74E-07	4.44E-06	1.06E-08	5.98E-07	2.04E-06	2.45E-09
1161	420591.21	3733678.37	7.13E-06	3.26E-05	7.13E-08	9.78E-07	4.46E-06	1.06E-08	6.00E-07	2.05E-06	2.46E-09
1162	420600.83	3733676.65	7.16E-06	3.27E-05	7.15E-08	9.81E-07	4.48E-06	1.07E-08	6.02E-07	2.06E-06	2.47E-09
1163	420610.45	3733674.93	7.19E-06	3.29E-05	7.18E-08	9.85E-07	4.49E-06	1.07E-08	6.05E-07	2.06E-06	2.48E-09
1164	420620.07	3733673.21	7.21E-06	3.30E-05	7.21E-08	9.89E-07	4.51E-06	1.07E-08	6.07E-07	2.07E-06	2.49E-09
1165	420629.7	3733671.49	7.24E-06	3.31E-05	7.24E-08	9.93E-07	4.53E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
1166	420639.32	3733669.77	7.26E-06	3.32E-05	7.26E-08	9.96E-07	4.54E-06	1.08E-08	6.11E-07	2.09E-06	2.51E-09
1167	420677.81	3733662.88	7.36E-06	3.37E-05	7.36E-08	1.01E-06	4.60E-06	1.10E-08	6.19E-07	2.12E-06	2.54E-09
1168	420687.43	3733661.16	7.38E-06	3.37E-05	7.38E-08	1.01E-06	4.61E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1169	420697.05	3733659.44	7.40E-06	3.38E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1170	420706.67	3733657.72	7.42E-06	3.39E-05	7.41E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1171	420716.3	3733656	7.44E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
1172	420725.92	3733654.28	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
1173	420735.54	3733652.56	7.46E-06	3.41E-05	7.46E-08	1.02E-06	4.67E-06	1.11E-08	6.28E-07	2.14E-06	2.58E-09
1174	420745.16	3733650.83	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09

1175	420754.78	3733649.11	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1176	420764.41	3733647.39	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1177	420774.03	3733645.67	7.50E-06	3.43E-05	7.49E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.15E-06	2.59E-09
1178	420783.65	3733643.95	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1179	420793.27	3733642.23	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1180	420802.9	3733640.51	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1181	420812.52	3733638.79	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1182	420822.14	3733637.07	7.50E-06	3.43E-05	7.49E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.15E-06	2.59E-09
1183	420831.76	3733635.34	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1184	420841.39	3733633.62	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1185	420851.01	3733631.9	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1186	420860.63	3733630.18	7.46E-06	3.41E-05	7.46E-08	1.02E-06	4.67E-06	1.11E-08	6.28E-07	2.14E-06	2.58E-09
1187	420870.25	3733628.46	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
1188	420879.87	3733626.74	7.44E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
1189	420889.5	3733625.02	7.42E-06	3.39E-05	7.42E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1190	420899.12	3733623.3	7.40E-06	3.39E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1191	420908.74	3733621.58	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1192	420020.72	3734288.53	9.54E-06	4.36E-05	9.54E-08	1.31E-06	5.96E-06	1.42E-08	8.03E-07	2.74E-06	3.30E-09
1193	420020.68	3734298.39	9.49E-06	4.34E-05	9.48E-08	1.30E-06	5.93E-06	1.41E-08	7.98E-07	2.73E-06	3.28E-09
1194	420020.64	3734308.25	9.43E-06	4.31E-05	9.43E-08	1.29E-06	5.90E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1195	420020.6	3734318.11	9.38E-06	4.29E-05	9.38E-08	1.29E-06	5.87E-06	1.40E-08	7.89E-07	2.70E-06	3.24E-09
1196	420020.56	3734327.97	9.34E-06	4.27E-05	9.33E-08	1.28E-06	5.84E-06	1.39E-08	7.85E-07	2.68E-06	3.23E-09
1197	420020.52	3734337.83	9.29E-06	4.25E-05	9.28E-08	1.27E-06	5.81E-06	1.38E-08	7.81E-07	2.67E-06	3.21E-09
1198	420020.48	3734347.69	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
1199	420020.44	3734357.55	9.19E-06	4.20E-05	9.19E-08	1.26E-06	5.75E-06	1.37E-08	7.74E-07	2.64E-06	3.18E-09
1200	420020.4	3734367.41	9.15E-06	4.18E-05	9.14E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
1201	420655.74	3734209.58	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.15E-07	6.47E-06	2.21E-05	2.66E-08
1202	420722.22	3734190.26	7.41E-05	3.39E-04	7.40E-07	1.02E-05	4.63E-05	1.10E-07	6.23E-06	2.13E-05	2.56E-08
1203	420646.47	3734189.49	6.43E-05	2.94E-04	6.43E-07	8.82E-06	4.02E-05	9.57E-08	5.41E-06	1.85E-05	2.22E-08
1204	420656.34	3734149.59	4.89E-05	2.24E-04	4.89E-07	6.71E-06	3.06E-05	7.29E-08	4.12E-06	1.41E-05	1.69E-08
1205	420646.88	3734149.49	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.66E-08
1206	420685.56	3734069.88	3.14E-05	1.44E-04	3.14E-07	4.31E-06	1.97E-05	4.68E-08	2.65E-06	9.04E-06	1.09E-08
1207	420648.91	3733949.5	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
1208	420668.25	3733909.7	1.49E-05	6.82E-05	1.49E-07	2.04E-06	9.32E-06	2.22E-08	1.25E-06	4.29E-06	5.15E-09
1209	420658.78	3733909.6	1.48E-05	6.75E-05	1.48E-07	2.02E-06	9.23E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
1210	420649.32	3733909.5	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
1211	420687.6	3733869.89	1.32E-05	6.02E-05	1.32E-07	1.81E-06	8.24E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
1212	420678.13	3733869.79	1.30E-05	5.97E-05	1.30E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
1213	420668.66	3733869.7	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.72E-06	4.47E-09
1214	420659.19	3733869.6	1.28E-05	5.85E-05	1.28E-07	1.76E-06	8.01E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
1215	420649.72	3733869.51	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
1216	420706.94	3733830.09	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
1217	420697.47	3733829.99	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.79E-07	3.34E-06	4.02E-09
1218	420688	3733829.89	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
1219	420678.54	3733829.8	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.16E-06	1.70E-08	9.63E-07	3.29E-06	3.95E-09
1220	420669.07	3733829.7	1.13E-05	5.19E-05	1.13E-07	1.56E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
1221	420659.6	3733829.6	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
1222	420650.13	3733829.51	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
1223	420726.29	3733790.28	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
1224	420716.82	3733790.18	1.05E-05	4.79E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
1225	420707.35	3733790.09	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.59E-09
1226	420697.88	3733789.99	1.03E-05	4.72E-05	1.03E-07	1.41E-06	6.45E-06	1.54E-08	8.68E-07	2.96E-06	3.56E-09
1227	420688.41	3733789.89	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
1228	420678.94	3733789.8	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.35E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
1229	420669.47	3733789.7	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1230	420660	3733789.61	9.98E-06	4.56E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
1231	420650.54	3733789.51	9.90E-06	4.52E-05	9.89E-08	1.36E-06	6.19E-06	1.47E-08	8.32E-07	2.84E-06	3.42E-09
1232	420726.69	3733750.28	9.42E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1233	420717.22	3733750.19	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
1234	420707.75	3733750.09	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
1235	420698.29	3733749.99	9.23E-06	4.22E-05	9.23E-08	1.27E-06	5.77E-06	1.37E-08	7.77E-07	2.65E-06	3.19E-09
1236	420688.82	3733749.9	9.16E-06	4.19E-05	9.16E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.17E-09

1237	420679.35	3733749.8	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
1238	420669.88	3733749.7	9.02E-06	4.13E-05	9.02E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
1239	420660.41	3733749.61	8.95E-06	4.09E-05	8.94E-08	1.23E-06	5.60E-06	1.33E-08	7.53E-07	2.57E-06	3.09E-09
1240	420650.94	3733749.51	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
1241	420727.1	3733710.28	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.32E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
1242	420717.63	3733710.19	8.45E-06	3.86E-05	8.45E-08	1.16E-06	5.28E-06	1.26E-08	7.11E-07	2.43E-06	2.92E-09
1243	420708.16	3733710.09	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1244	420698.69	3733710	8.34E-06	3.81E-05	8.33E-08	1.14E-06	5.21E-06	1.24E-08	7.01E-07	2.40E-06	2.88E-09
1245	420689.22	3733709.9	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
1246	420679.75	3733709.8	8.22E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
1247	420670.29	3733709.71	8.16E-06	3.73E-05	8.16E-08	1.12E-06	5.10E-06	1.22E-08	6.87E-07	2.35E-06	2.82E-09
1248	420727.51	3733670.29	7.73E-06	3.53E-05	7.73E-08	1.06E-06	4.83E-06	1.15E-08	6.50E-07	2.22E-06	2.67E-09
1249	420718.04	3733670.19	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
1250	420708.57	3733670.09	7.64E-06	3.49E-05	7.63E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
1251	420699.1	3733670	7.59E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1252	420689.63	3733669.9	7.54E-06	3.45E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.17E-06	2.60E-09
1253	420614.75	3734378.53	4.73E-04	2.16E-03	4.73E-06	6.49E-05	2.96E-04	7.05E-07	3.98E-05	1.36E-04	1.64E-07
1254	420614.96	3734395.89	5.79E-04	2.65E-03	5.79E-06	7.94E-05	3.62E-04	8.62E-07	4.87E-05	1.66E-04	2.00E-07
1255	420604.75	3734378.65	4.23E-04	1.93E-03	4.22E-06	5.79E-05	2.64E-04	6.29E-07	3.56E-05	1.21E-04	1.46E-07
1256	420604.96	3734396.01	5.03E-04	2.30E-03	5.03E-06	6.89E-05	3.14E-04	7.48E-07	4.23E-05	1.44E-04	1.74E-07
1257	420594.75	3734378.77	3.77E-04	1.73E-03	3.77E-06	5.17E-05	2.36E-04	5.62E-07	3.18E-05	1.08E-04	1.30E-07
1258	420594.96	3734396.13	4.38E-04	2.00E-03	4.37E-06	6.00E-05	2.74E-04	6.51E-07	3.68E-05	1.26E-04	1.51E-07
1259	420609.35	3734324.16	2.28E-04	1.04E-03	2.28E-06	3.13E-05	1.43E-04	3.40E-07	1.92E-05	6.56E-05	7.89E-08
1260	420584.75	3734378.9	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.02E-07	2.84E-05	9.68E-05	1.16E-07
1261	420584.96	3734396.26	3.82E-04	1.75E-03	3.82E-06	5.24E-05	2.39E-04	5.69E-07	3.21E-05	1.10E-04	1.32E-07
1262	420589.25	3734334.41	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.61E-05	7.94E-08
1263	420609.45	3734314.16	2.02E-04	9.25E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.99E-08
1264	420574.75	3734379.02	3.01E-04	1.38E-03	3.01E-06	4.13E-05	1.88E-04	4.48E-07	2.53E-05	8.65E-05	1.04E-07
1265	420574.97	3734396.38	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.09E-04	4.99E-07	2.82E-05	9.62E-05	1.16E-07
1266	420609.55	3734304.16	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.16E-05	6.21E-08
1267	420564.75	3734379.14	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.01E-07	2.27E-05	7.74E-05	9.31E-08
1268	420564.97	3734396.5	2.95E-04	1.35E-03	2.95E-06	4.04E-05	1.84E-04	4.39E-07	2.48E-05	8.47E-05	1.02E-07
1269	420569.25	3734334.65	2.02E-04	9.22E-04	2.02E-06	2.76E-05	1.26E-04	3.00E-07	1.70E-05	5.79E-05	6.97E-08
1270	420609.65	3734294.16	1.60E-04	7.33E-04	1.60E-06	2.20E-05	1.00E-04	2.39E-07	1.35E-05	4.60E-05	5.54E-08
1271	420554.75	3734379.27	2.41E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.34E-08
1272	420554.97	3734396.63	2.60E-04	1.19E-03	2.60E-06	3.57E-05	1.63E-04	3.87E-07	2.19E-05	7.48E-05	8.99E-08
1273	420570.61	3734306.83	1.58E-04	7.20E-04	1.57E-06	2.16E-05	9.85E-05	2.35E-07	1.33E-05	4.53E-05	5.45E-08
1274	420589.81	3734292.32	1.47E-04	6.74E-04	1.47E-06	2.02E-05	9.22E-05	2.19E-07	1.24E-05	4.24E-05	5.09E-08
1275	420544.75	3734379.39	2.16E-04	9.90E-04	2.16E-06	2.97E-05	1.35E-04	3.22E-07	1.82E-05	6.22E-05	7.48E-08
1276	420544.97	3734396.75	2.31E-04	1.05E-03	2.31E-06	3.16E-05	1.44E-04	3.43E-07	1.94E-05	6.63E-05	7.97E-08
1277	420550.14	3734308.24	1.44E-04	6.57E-04	1.44E-06	1.97E-05	8.99E-05	2.14E-07	1.21E-05	4.13E-05	4.97E-08
1278	420524.76	3734379.63	1.75E-04	8.02E-04	1.75E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.04E-05	6.06E-08
1279	420524.97	3734396.99	1.83E-04	8.37E-04	1.83E-06	2.51E-05	1.14E-04	2.73E-07	1.54E-05	5.26E-05	6.33E-08
1280	420529.81	3734309.29	1.29E-04	5.90E-04	1.29E-06	1.77E-05	8.07E-05	1.92E-07	1.09E-05	3.71E-05	4.46E-08
1281	420504.76	3734379.88	1.43E-04	6.56E-04	1.43E-06	1.97E-05	8.97E-05	2.14E-07	1.21E-05	4.12E-05	4.96E-08
1282	420504.97	3734397.24	1.47E-04	6.74E-04	1.47E-06	2.02E-05	9.22E-05	2.20E-07	1.24E-05	4.24E-05	5.10E-08
1283	420577.34	3734237.67	8.46E-05	3.87E-04	8.46E-07	1.16E-05	5.29E-05	1.26E-07	7.12E-06	2.43E-05	2.92E-08
1284	420484.76	3734380.13	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
1285	420484.97	3734397.49	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.53E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
1286	420540.03	3734233.01	7.53E-05	3.44E-04	7.53E-07	1.03E-05	4.71E-05	1.12E-07	6.34E-06	2.17E-05	2.60E-08
1287	420464.76	3734380.37	9.87E-05	4.51E-04	9.86E-07	1.35E-05	6.17E-05	1.47E-07	8.30E-06	2.84E-05	3.41E-08
1288	420464.97	3734397.73	9.95E-05	4.55E-04	9.94E-07	1.36E-05	6.22E-05	1.48E-07	8.37E-06	2.86E-05	3.44E-08
1289	420470.62	3734308.06	8.87E-05	4.06E-04	8.87E-07	1.22E-05	5.55E-05	1.32E-07	7.46E-06	2.55E-05	3.07E-08
1290	420527	3734218.42	6.64E-05	3.04E-04	6.64E-07	9.10E-06	4.15E-05	9.89E-08	5.59E-06	1.91E-05	2.30E-08
1291	420444.76	3734380.62	8.30E-05	3.79E-04	8.30E-07	1.14E-05	5.19E-05	1.24E-07	6.98E-06	2.38E-05	2.87E-08
1292	420444.98	3734397.98	8.32E-05	3.80E-04	8.31E-07	1.14E-05	5.20E-05	1.24E-07	7.00E-06	2.39E-05	2.87E-08
1293	420450.36	3734308.94	7.80E-05	3.57E-04	7.80E-07	1.07E-05	4.88E-05	1.16E-07	6.56E-06	2.24E-05	2.70E-08
1294	420485.7	3734221.99	6.15E-05	2.81E-04	6.15E-07	8.44E-06	3.85E-05	9.16E-08	5.18E-06	1.77E-05	2.13E-08
1295	420468.38	3734215.63	5.64E-05	2.58E-04	5.63E-07	7.73E-06	3.52E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
1296	420607.91	3734145.51	4.42E-05	2.02E-04	4.42E-07	6.06E-06	2.76E-05	6.58E-08	3.72E-06	1.27E-05	1.53E-08
1297	420404.76	3734381.11	6.03E-05	2.76E-04	6.03E-07	8.27E-06	3.77E-05	8.98E-08	5.08E-06	1.73E-05	2.09E-08
1298	420404.98	3734398.47	6.00E-05	2.74E-04	6.00E-07	8.23E-06	3.75E-05	8.94E-08	5.05E-06	1.73E-05	2.07E-08

1299	420397.32	3734341.53	5.70E-05	2.61E-04	5.70E-07	7.82E-06	3.57E-05	8.49E-08	4.80E-06	1.64E-05	1.97E-08
1300	420403.64	3734325.96	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
1301	420409.97	3734310.39	6.03E-05	2.75E-04	6.02E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
1302	420451.1	3734209.18	5.17E-05	2.36E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
1303	420457.43	3734193.61	4.85E-05	2.22E-04	4.84E-07	6.65E-06	3.03E-05	7.22E-08	4.08E-06	1.39E-05	1.68E-08
1304	420600.61	3734128.58	3.93E-05	1.80E-04	3.92E-07	5.38E-06	2.45E-05	5.85E-08	3.30E-06	1.13E-05	1.36E-08
1305	420384.77	3734381.35	5.21E-05	2.38E-04	5.21E-07	7.14E-06	3.26E-05	7.76E-08	4.38E-06	1.50E-05	1.80E-08
1306	420384.98	3734398.71	5.17E-05	2.37E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
1307	420389.82	3734311.01	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
1308	420396.11	3734295.53	5.40E-05	2.47E-04	5.40E-07	7.41E-06	3.38E-05	8.04E-08	4.54E-06	1.55E-05	1.87E-08
1309	420414.99	3734249.09	5.33E-05	2.43E-04	5.32E-07	7.30E-06	3.33E-05	7.93E-08	4.48E-06	1.53E-05	1.84E-08
1310	420421.28	3734233.61	5.18E-05	2.37E-04	5.18E-07	7.10E-06	3.24E-05	7.71E-08	4.36E-06	1.49E-05	1.79E-08
1311	420427.57	3734218.14	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
1312	420454.17	3734168.54	4.20E-05	1.92E-04	4.19E-07	5.75E-06	2.62E-05	6.25E-08	3.53E-06	1.21E-05	1.45E-08
1313	420577.89	3734117.95	3.58E-05	1.64E-04	3.58E-07	4.91E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
1314	420364.77	3734381.6	4.54E-05	2.07E-04	4.53E-07	6.22E-06	2.84E-05	6.75E-08	3.82E-06	1.30E-05	1.57E-08
1315	420364.98	3734398.96	4.50E-05	2.06E-04	4.49E-07	6.16E-06	2.81E-05	6.69E-08	3.78E-06	1.29E-05	1.55E-08
1316	420357.64	3734341.23	4.38E-05	2.00E-04	4.38E-07	6.00E-06	2.74E-05	6.52E-08	3.69E-06	1.26E-05	1.51E-08
1317	420364.13	3734325.26	4.55E-05	2.08E-04	4.55E-07	6.24E-06	2.85E-05	6.78E-08	3.83E-06	1.31E-05	1.57E-08
1318	420370.62	3734309.29	4.70E-05	2.15E-04	4.70E-07	6.45E-06	2.94E-05	7.00E-08	3.96E-06	1.35E-05	1.62E-08
1319	420409.57	3734213.47	4.58E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.32E-05	1.58E-08
1320	420416.06	3734197.5	4.38E-05	2.00E-04	4.38E-07	6.01E-06	2.74E-05	6.53E-08	3.69E-06	1.26E-05	1.52E-08
1321	420422.55	3734181.53	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
1322	420464.19	3734144.52	3.74E-05	1.71E-04	3.74E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1323	420480.15	3734138	3.68E-05	1.68E-04	3.68E-07	5.04E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
1324	420575.89	3734098.85	3.20E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.18E-06	1.10E-08
1325	420344.77	3734381.85	3.97E-05	1.82E-04	3.97E-07	5.45E-06	2.48E-05	5.92E-08	3.34E-06	1.14E-05	1.37E-08
1326	420344.98	3734399.21	3.94E-05	1.80E-04	3.93E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
1327	420317.48	3734342.13	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
1328	420323.89	3734326.37	3.57E-05	1.63E-04	3.56E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.02E-05	1.23E-08
1329	420330.29	3734310.6	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.51E-08	3.11E-06	1.06E-05	1.28E-08
1330	420387.95	3734168.73	3.58E-05	1.63E-04	3.57E-07	4.90E-06	2.24E-05	5.32E-08	3.01E-06	1.03E-05	1.24E-08
1331	420400.77	3734137.2	3.22E-05	1.47E-04	3.22E-07	4.42E-06	2.02E-05	4.80E-08	2.71E-06	9.26E-06	1.11E-08
1332	420411.84	3734126.1	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.63E-06	8.99E-06	1.08E-08
1333	420443.34	3734113.22	3.07E-05	1.41E-04	3.07E-07	4.21E-06	1.92E-05	4.57E-08	2.59E-06	8.83E-06	1.06E-08
1334	420459.09	3734106.78	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
1335	420490.59	3734093.9	2.90E-05	1.33E-04	2.90E-07	3.97E-06	1.81E-05	4.32E-08	2.44E-06	8.33E-06	1.00E-08
1336	420304.77	3734382.34	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.62E-06	8.94E-06	1.07E-08
1337	420304.99	3734399.7	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
1338	420277.73	3734342.02	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.45E-09
1339	420284.25	3734325.96	2.85E-05	1.30E-04	2.85E-07	3.91E-06	1.78E-05	4.24E-08	2.40E-06	8.19E-06	9.85E-09
1340	420329.95	3734213.51	3.32E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.55E-06	1.15E-08
1341	420336.48	3734197.45	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.46E-06	1.14E-08
1342	420343.01	3734181.38	3.23E-05	1.48E-04	3.23E-07	4.43E-06	2.02E-05	4.81E-08	2.72E-06	9.28E-06	1.12E-08
1343	420362.6	3734133.19	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.37E-06	1.01E-08
1344	420369.13	3734117.13	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.97E-06	9.59E-09
1345	420415.78	3734084.66	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.43E-06	8.94E-09
1346	420431.83	3734078.1	2.55E-05	1.16E-04	2.55E-07	3.49E-06	1.59E-05	3.79E-08	2.14E-06	7.32E-06	8.80E-09
1347	420463.93	3734064.97	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.64E-08	2.06E-06	7.03E-06	8.46E-09
1348	420520.1	3734042	2.26E-05	1.03E-04	2.26E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.80E-09
1349	420536.15	3734035.44	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
1350	420552.2	3734028.88	2.17E-05	9.91E-05	2.17E-07	2.97E-06	1.36E-05	3.23E-08	1.82E-06	6.23E-06	7.49E-09
1351	420568.25	3734022.31	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.18E-08	1.79E-06	6.13E-06	7.37E-09
1352	420584.3	3734015.75	2.10E-05	9.62E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.27E-09
1353	420264.78	3734382.83	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
1354	420264.99	3734400.19	2.46E-05	1.13E-04	2.46E-07	3.38E-06	1.54E-05	3.67E-08	2.07E-06	7.08E-06	8.52E-09
1355	420237.58	3734342.87	2.22E-05	1.01E-04	2.22E-07	3.04E-06	1.39E-05	3.30E-08	1.87E-06	6.37E-06	7.66E-09
1356	420244.04	3734326.98	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.98E-09
1357	420250.5	3734311.1	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.31E-09
1358	420295.69	3734199.9	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.08E-06	9.72E-09
1359	420302.15	3734184.01	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.04E-06	9.67E-09
1360	420308.6	3734168.13	2.77E-05	1.26E-04	2.76E-07	3.79E-06	1.73E-05	4.12E-08	2.33E-06	7.95E-06	9.56E-09

1361	420321.52	3734136.35	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.13E-09
1362	420327.97	3734120.47	2.56E-05	1.17E-04	2.55E-07	3.50E-06	1.60E-05	3.80E-08	2.15E-06	7.34E-06	8.83E-09
1363	420334.43	3734104.58	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.50E-09
1364	420340.88	3734088.7	2.36E-05	1.08E-04	2.35E-07	3.23E-06	1.47E-05	3.51E-08	1.98E-06	6.77E-06	8.14E-09
1365	420355.28	3734069.57	2.24E-05	1.03E-04	2.24E-07	3.08E-06	1.40E-05	3.34E-08	1.89E-06	6.45E-06	7.76E-09
1366	420442.57	3734033.87	2.08E-05	9.51E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
1367	420458.44	3734027.38	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1368	420490.19	3734014.4	1.95E-05	8.90E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.59E-06	6.73E-09
1369	420521.93	3734001.42	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
1370	420537.8	3733994.93	1.84E-05	8.40E-05	1.84E-07	2.52E-06	1.15E-05	2.74E-08	1.55E-06	5.28E-06	6.35E-09
1371	420553.68	3733988.44	1.81E-05	8.27E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
1372	420569.55	3733981.95	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
1373	420224.78	3734383.32	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.02E-08	1.71E-06	5.84E-06	7.02E-09
1374	420224.99	3734400.68	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
1375	420197.47	3734343.65	1.83E-05	8.37E-05	1.83E-07	2.51E-06	1.14E-05	2.73E-08	1.54E-06	5.26E-06	6.33E-09
1376	420203.87	3734327.91	1.90E-05	8.70E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.57E-09
1377	420210.27	3734312.17	1.98E-05	9.04E-05	1.98E-07	2.71E-06	1.24E-05	2.94E-08	1.66E-06	5.68E-06	6.83E-09
1378	420267.84	3734170.49	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.32E-09
1379	420280.64	3734139.01	2.36E-05	1.08E-04	2.36E-07	3.23E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.15E-09
1380	420287.04	3734123.26	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.44E-08	1.95E-06	6.65E-06	7.99E-09
1381	420293.44	3734107.52	2.25E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.79E-09
1382	420299.83	3734091.78	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.28E-06	7.56E-09
1383	420306.23	3734076.04	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.07E-06	7.29E-09
1384	420312.63	3734060.3	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
1385	420366.21	3734025.26	1.90E-05	8.69E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
1386	420421.26	3734002.75	1.79E-05	8.18E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.51E-06	5.14E-06	6.18E-09
1387	420436.99	3733996.32	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
1388	420468.44	3733983.46	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.81E-09
1389	420484.17	3733977.03	1.65E-05	7.53E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.73E-06	5.69E-09
1390	420515.63	3733964.17	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.49E-09
1391	420531.35	3733957.74	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
1392	420547.08	3733951.31	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1393	420633.59	3733915.93	1.47E-05	6.72E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.08E-09
1394	420184.78	3734383.81	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
1395	420184.99	3734401.17	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.80E-06	5.78E-09
1396	420157.66	3734343.68	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
1397	420164.15	3734327.71	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
1398	420170.64	3734311.74	1.65E-05	7.57E-05	1.65E-07	2.27E-06	1.03E-05	2.46E-08	1.39E-06	4.76E-06	5.72E-09
1399	420216.07	3734199.96	2.04E-05	9.32E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.86E-06	7.04E-09
1400	420222.56	3734183.99	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
1401	420242.03	3734136.08	2.08E-05	9.49E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
1402	420261.5	3734088.17	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
1403	420268	3734072.2	1.93E-05	8.80E-05	1.92E-07	2.64E-06	1.20E-05	2.87E-08	1.62E-06	5.53E-06	6.65E-09
1404	420274.49	3734056.23	1.87E-05	8.53E-05	1.86E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.36E-06	6.45E-09
1405	420287.47	3734024.29	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.97E-06	5.97E-09
1406	420298.69	3734013.04	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
1407	420338.58	3733996.73	1.66E-05	7.59E-05	1.66E-07	2.28E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.74E-09
1408	420354.54	3733990.21	1.64E-05	7.49E-05	1.64E-07	2.25E-06	1.02E-05	2.44E-08	1.38E-06	4.71E-06	5.66E-09
1409	420394.43	3733973.89	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
1410	420410.38	3733967.37	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
1411	420442.29	3733954.32	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.19E-08	1.24E-06	4.24E-06	5.10E-09
1412	420522.07	3733921.7	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
1413	420538.03	3733915.18	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
1414	420633.77	3733876.03	1.28E-05	5.83E-05	1.28E-07	1.75E-06	7.98E-06	1.90E-08	1.07E-06	3.67E-06	4.41E-09
1415	420144.78	3734384.3	1.42E-05	6.51E-05	1.42E-07	1.95E-06	8.90E-06	2.12E-08	1.20E-06	4.09E-06	4.92E-09
1416	420145	3734401.66	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
1417	420117.56	3734344.44	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
1418	420123.99	3734328.6	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
1419	420130.43	3734312.76	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.75E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
1420	420175.49	3734201.88	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
1421	420181.93	3734186.04	1.77E-05	8.10E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
1422	420188.37	3734170.2	1.80E-05	8.22E-05	1.80E-07	2.46E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.21E-09

1423	420201.24	3734138.52	1.82E-05	8.34E-05	1.82E-07	2.50E-06	1.14E-05	2.72E-08	1.53E-06	5.24E-06	6.30E-09
1424	420207.68	3734122.68	1.82E-05	8.33E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.24E-06	6.30E-09
1425	420214.12	3734106.84	1.81E-05	8.28E-05	1.81E-07	2.48E-06	1.13E-05	2.70E-08	1.52E-06	5.21E-06	6.26E-09
1426	420220.55	3734091	1.79E-05	8.19E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.19E-09
1427	420226.99	3734075.17	1.76E-05	8.05E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
1428	420233.43	3734059.33	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.96E-09
1429	420270.31	3733984.81	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.15E-09
1430	420286.14	3733978.34	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
1431	420317.79	3733965.4	1.46E-05	6.66E-05	1.46E-07	2.00E-06	9.11E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
1432	420333.61	3733958.93	1.44E-05	6.58E-05	1.44E-07	1.97E-06	8.99E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
1433	420420.65	3733923.34	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
1434	420436.48	3733916.87	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
1435	420452.31	3733910.4	1.25E-05	5.72E-05	1.25E-07	1.71E-06	7.82E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
1436	420468.13	3733903.92	1.23E-05	5.62E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.03E-06	3.53E-06	4.25E-09
1437	420483.96	3733897.45	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
1438	420499.78	3733890.98	1.19E-05	5.46E-05	1.19E-07	1.64E-06	7.47E-06	1.78E-08	1.00E-06	3.43E-06	4.13E-09
1439	420515.61	3733884.51	1.18E-05	5.40E-05	1.18E-07	1.62E-06	7.38E-06	1.76E-08	9.93E-07	3.39E-06	4.08E-09
1440	420602.65	3733848.92	1.13E-05	5.17E-05	1.13E-07	1.55E-06	7.07E-06	1.68E-08	9.52E-07	3.25E-06	3.91E-09
1441	420104.68	3734376.12	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
1442	420104.89	3734393.48	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
1443	420077.71	3734344.54	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
1444	420084.23	3734328.51	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.27E-06	1.73E-08	9.78E-07	3.34E-06	4.02E-09
1445	420090.75	3734312.48	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
1446	420146.13	3734176.22	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1447	420159.16	3734144.15	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
1448	420165.67	3734128.12	1.61E-05	7.34E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.55E-09
1449	420172.19	3734112.09	1.61E-05	7.36E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.35E-06	4.63E-06	5.56E-09
1450	420178.7	3734096.06	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.62E-06	5.55E-09
1451	420185.22	3734080.03	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.98E-06	2.38E-08	1.34E-06	4.59E-06	5.51E-09
1452	420191.73	3734064	1.58E-05	7.21E-05	1.58E-07	2.16E-06	9.86E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
1453	420204.76	3734031.93	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.51E-06	2.26E-08	1.28E-06	4.37E-06	5.25E-09
1454	420211.28	3734015.9	1.48E-05	6.78E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
1455	420217.79	3733999.87	1.44E-05	6.59E-05	1.44E-07	1.98E-06	9.02E-06	2.15E-08	1.21E-06	4.14E-06	4.98E-09
1456	420242.09	3733956.52	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1457	420346.2	3733913.95	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
1458	420362.22	3733907.4	1.21E-05	5.52E-05	1.21E-07	1.66E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
1459	420394.26	3733894.3	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
1460	420410.27	3733887.75	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
1461	420426.29	3733881.2	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.41E-07	3.22E-06	3.87E-09
1462	420442.31	3733874.65	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.88E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
1463	420458.33	3733868.1	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
1464	420474.34	3733861.55	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
1465	420490.36	3733855	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
1466	420506.38	3733848.45	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.78E-07	3.00E-06	3.60E-09
1467	420586.47	3733815.71	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1468	420602.48	3733809.16	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.46E-09
1469	420634.52	3733796.06	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
1470	420064.68	3734376.61	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
1471	420064.9	3734393.97	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
1472	420031.15	3734361.19	9.50E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
1473	420037.62	3734345.27	9.79E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
1474	420044.09	3734329.36	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.31E-06	1.50E-08	8.49E-07	2.90E-06	3.49E-09
1475	420050.56	3734313.45	1.04E-05	4.75E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.59E-09
1476	420095.83	3734202.06	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.71E-06	4.46E-09
1477	420102.29	3734186.14	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1478	420108.76	3734170.23	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
1479	420121.69	3734138.41	1.40E-05	6.41E-05	1.40E-07	1.92E-06	8.76E-06	2.09E-08	1.18E-06	4.03E-06	4.84E-09
1480	420128.16	3734122.49	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
1481	420147.56	3734074.75	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
1482	420154.03	3734058.84	1.42E-05	6.50E-05	1.42E-07	1.95E-06	8.89E-06	2.12E-08	1.20E-06	4.09E-06	4.92E-09
1483	420166.97	3734027.02	1.39E-05	6.35E-05	1.39E-07	1.90E-06	8.68E-06	2.07E-08	1.17E-06	3.99E-06	4.80E-09
1484	420173.43	3734011.1	1.36E-05	6.23E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09

1485	420179.9	3733995.19	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
1486	420213.72	3733928.29	1.18E-05	5.42E-05	1.18E-07	1.62E-06	7.41E-06	1.76E-08	9.97E-07	3.40E-06	4.09E-09
1487	420229.62	3733921.79	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
1488	420269.36	3733905.54	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.76E-07	3.33E-06	4.01E-09
1489	420285.26	3733899.03	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.16E-06	1.71E-08	9.64E-07	3.29E-06	3.96E-09
1490	420317.06	3733886.03	1.11E-05	5.08E-05	1.11E-07	1.52E-06	6.95E-06	1.65E-08	9.35E-07	3.19E-06	3.84E-09
1491	420332.96	3733879.53	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.82E-06	1.62E-08	9.18E-07	3.14E-06	3.77E-09
1492	420364.76	3733866.53	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
1493	420396.56	3733853.53	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
1494	420412.46	3733847.03	9.97E-06	4.56E-05	9.96E-08	1.37E-06	6.23E-06	1.48E-08	8.39E-07	2.86E-06	3.44E-09
1495	420428.36	3733840.53	9.81E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
1496	420444.25	3733834.02	9.67E-06	4.42E-05	9.66E-08	1.33E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
1497	420460.15	3733827.52	9.54E-06	4.36E-05	9.54E-08	1.31E-06	5.96E-06	1.42E-08	8.03E-07	2.74E-06	3.30E-09
1498	420476.05	3733821.02	9.43E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1499	420491.95	3733814.52	9.33E-06	4.27E-05	9.33E-08	1.28E-06	5.83E-06	1.39E-08	7.85E-07	2.68E-06	3.22E-09
1500	420571.45	3733782.02	9.04E-06	4.13E-05	9.04E-08	1.24E-06	5.65E-06	1.35E-08	7.61E-07	2.60E-06	3.12E-09
1501	420587.35	3733775.52	9.00E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
1502	420603.24	3733769.01	8.97E-06	4.10E-05	8.97E-08	1.23E-06	5.61E-06	1.34E-08	7.55E-07	2.58E-06	3.10E-09
1503	420024.69	3734377.1	9.23E-06	4.22E-05	9.23E-08	1.27E-06	5.77E-06	1.37E-08	7.77E-07	2.65E-06	3.19E-09
1504	420024.9	3734394.46	9.16E-06	4.19E-05	9.15E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.16E-09
1505	419987.96	3734369.55	8.26E-06	3.78E-05	8.26E-08	1.13E-06	5.17E-06	1.23E-08	6.95E-07	2.37E-06	2.86E-09
1506	419994.49	3734353.47	8.49E-06	3.88E-05	8.49E-08	1.16E-06	5.31E-06	1.26E-08	7.15E-07	2.44E-06	2.94E-09
1507	420001.03	3734337.39	8.73E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
1508	420007.56	3734321.32	8.99E-06	4.11E-05	8.98E-08	1.23E-06	5.62E-06	1.34E-08	7.56E-07	2.58E-06	3.11E-09
1509	420059.84	3734192.69	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
1510	420066.37	3734176.61	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
1511	420079.44	3734144.46	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
1512	420085.97	3734128.38	1.24E-05	5.69E-05	1.24E-07	1.71E-06	7.78E-06	1.85E-08	1.05E-06	3.58E-06	4.30E-09
1513	420092.51	3734112.3	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
1514	420099.04	3734096.22	1.28E-05	5.83E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.41E-09
1515	420105.58	3734080.14	1.28E-05	5.86E-05	1.28E-07	1.76E-06	8.02E-06	1.91E-08	1.08E-06	3.69E-06	4.43E-09
1516	420112.11	3734064.07	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.03E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
1517	420125.18	3734031.91	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
1518	420131.71	3734015.83	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
1519	420138.25	3733999.75	1.24E-05	5.69E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.30E-09
1520	420144.78	3733983.68	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
1521	420151.32	3733967.6	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.13E-09
1522	420157.85	3733951.52	1.17E-05	5.34E-05	1.17E-07	1.60E-06	7.30E-06	1.74E-08	9.83E-07	3.36E-06	4.04E-09
1523	420170.92	3733919.36	1.10E-05	5.05E-05	1.10E-07	1.51E-06	6.91E-06	1.64E-08	9.29E-07	3.17E-06	3.82E-09
1524	420185.49	3733900	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
1525	420201.55	3733893.43	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.67E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
1526	420241.71	3733877.01	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.82E-07	3.01E-06	3.62E-09
1527	420289.9	3733857.31	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1528	420305.97	3733850.74	9.90E-06	4.53E-05	9.89E-08	1.36E-06	6.19E-06	1.47E-08	8.33E-07	2.84E-06	3.42E-09
1529	420338.1	3733837.6	9.55E-06	4.37E-05	9.55E-08	1.31E-06	5.97E-06	1.42E-08	8.04E-07	2.75E-06	3.30E-09
1530	420402.35	3733811.33	8.92E-06	4.08E-05	8.91E-08	1.22E-06	5.58E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
1531	420418.42	3733804.76	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
1532	420434.48	3733798.19	8.67E-06	3.96E-05	8.66E-08	1.19E-06	5.42E-06	1.29E-08	7.29E-07	2.49E-06	3.00E-09
1533	420450.55	3733791.62	8.56E-06	3.92E-05	8.56E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
1534	420466.61	3733785.05	8.47E-06	3.87E-05	8.47E-08	1.16E-06	5.30E-06	1.26E-08	7.13E-07	2.43E-06	2.93E-09
1535	420554.96	3733748.93	8.18E-06	3.74E-05	8.17E-08	1.12E-06	5.11E-06	1.22E-08	6.88E-07	2.35E-06	2.83E-09
1536	420571.03	3733742.36	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1537	420587.09	3733735.79	8.13E-06	3.72E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1538	420603.16	3733729.22	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1539	420619.22	3733722.65	8.09E-06	3.70E-05	8.08E-08	1.11E-06	5.06E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1540	419984.8	3734386.27	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1541	419985.01	3734403.63	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1542	419947.94	3734370.1	7.35E-06	3.36E-05	7.35E-08	1.01E-06	4.60E-06	1.09E-08	6.19E-07	2.11E-06	2.54E-09
1543	419954.43	3734354.13	7.55E-06	3.45E-05	7.54E-08	1.03E-06	4.72E-06	1.12E-08	6.35E-07	2.17E-06	2.61E-09
1544	419960.92	3734338.16	7.74E-06	3.54E-05	7.74E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
1545	419967.41	3734322.19	7.95E-06	3.63E-05	7.94E-08	1.09E-06	4.97E-06	1.18E-08	6.68E-07	2.28E-06	2.75E-09
1546	419973.9	3734306.22	8.16E-06	3.73E-05	8.16E-08	1.12E-06	5.10E-06	1.22E-08	6.87E-07	2.35E-06	2.82E-09

1547	419980.39	3734290.25	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1548	419993.37	3734258.31	8.89E-06	4.06E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.55E-06	3.07E-09
1549	419999.86	3734242.34	9.15E-06	4.19E-05	9.15E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
1550	420006.35	3734226.37	9.43E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1551	420012.84	3734210.4	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
1552	420019.33	3734194.43	9.97E-06	4.56E-05	9.97E-08	1.37E-06	6.23E-06	1.48E-08	8.39E-07	2.87E-06	3.45E-09
1553	420038.8	3734146.52	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
1554	420045.29	3734130.55	1.10E-05	5.01E-05	1.10E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
1555	420051.78	3734114.58	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
1556	420058.27	3734098.61	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
1557	420064.76	3734082.64	1.15E-05	5.24E-05	1.14E-07	1.57E-06	7.16E-06	1.71E-08	9.64E-07	3.29E-06	3.96E-09
1558	420071.26	3734066.67	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
1559	420090.73	3734018.76	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
1560	420097.22	3734002.79	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
1561	420103.71	3733986.82	1.13E-05	5.19E-05	1.13E-07	1.56E-06	7.10E-06	1.69E-08	9.55E-07	3.26E-06	3.92E-09
1562	420110.2	3733970.85	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.42E-07	3.22E-06	3.87E-09
1563	420116.69	3733954.88	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.88E-06	1.64E-08	9.26E-07	3.16E-06	3.80E-09
1564	420142.65	3733891	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.26E-06	1.49E-08	8.42E-07	2.88E-06	3.46E-09
1565	420157.12	3733871.77	9.72E-06	4.44E-05	9.71E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
1566	420173.07	3733865.24	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
1567	420189.03	3733858.72	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
1568	420204.99	3733852.2	9.59E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
1569	420220.94	3733845.67	9.50E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
1570	420236.9	3733839.15	9.39E-06	4.29E-05	9.39E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.24E-09
1571	420316.68	3733806.53	8.68E-06	3.97E-05	8.68E-08	1.19E-06	5.43E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
1572	420332.63	3733800	8.53E-06	3.90E-05	8.53E-08	1.17E-06	5.33E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
1573	420348.59	3733793.48	8.39E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1574	420388.48	3733777.17	8.07E-06	3.69E-05	8.06E-08	1.11E-06	5.04E-06	1.20E-08	6.79E-07	2.32E-06	2.79E-09
1575	420404.44	3733770.64	7.96E-06	3.64E-05	7.95E-08	1.09E-06	4.98E-06	1.18E-08	6.70E-07	2.29E-06	2.75E-09
1576	420420.39	3733764.12	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
1577	420436.35	3733757.59	7.77E-06	3.55E-05	7.76E-08	1.06E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.68E-09
1578	420452.3	3733751.07	7.69E-06	3.52E-05	7.69E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
1579	420468.26	3733744.55	7.63E-06	3.49E-05	7.62E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
1580	420548.04	3733711.92	7.43E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.25E-07	2.14E-06	2.57E-09
1581	420564	3733705.4	7.41E-06	3.39E-05	7.41E-08	1.02E-06	4.63E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1582	420579.95	3733698.88	7.40E-06	3.38E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1583	420595.91	3733692.35	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1584	420611.87	3733685.83	7.37E-06	3.37E-05	7.37E-08	1.01E-06	4.61E-06	1.10E-08	6.20E-07	2.12E-06	2.55E-09
1585	419944.8	3734386.76	7.24E-06	3.31E-05	7.23E-08	9.92E-07	4.52E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
1586	419945.01	3734404.12	7.18E-06	3.28E-05	7.18E-08	9.84E-07	4.49E-06	1.07E-08	6.04E-07	2.06E-06	2.48E-09
1587	420639.94	3734404.17	9.63E-04	4.40E-03	9.62E-06	1.32E-04	6.02E-04	1.43E-06	8.10E-05	2.77E-04	3.33E-07
1588	420648.28	3734409.01	1.23E-03	5.62E-03	1.23E-05	1.69E-04	7.69E-04	1.83E-06	1.03E-04	3.53E-04	4.25E-07
1589	420656.63	3734413.85	1.63E-03	7.46E-03	1.63E-05	2.24E-04	1.02E-03	2.43E-06	1.37E-04	4.69E-04	5.64E-07
1590	420664.97	3734418.69	2.28E-03	1.04E-02	2.27E-05	3.12E-04	1.42E-03	3.39E-06	1.91E-04	6.54E-04	7.87E-07
1591	420673.31	3734423.53	3.36E-03	1.54E-02	3.36E-05	4.61E-04	2.10E-03	5.00E-06	2.83E-04	9.65E-04	1.16E-06
1592	420643.27	3734417.66	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.35E-07
1593	420651.61	3734422.5	1.67E-03	7.64E-03	1.67E-05	2.29E-04	1.04E-03	2.49E-06	1.40E-04	4.80E-04	5.77E-07
1594	420659.95	3734427.34	2.32E-03	1.06E-02	2.32E-05	3.18E-04	1.45E-03	3.45E-06	1.95E-04	6.66E-04	8.01E-07
1595	420668.29	3734432.18	3.39E-03	1.55E-02	3.39E-05	4.65E-04	2.12E-03	5.05E-06	2.85E-04	9.74E-04	1.17E-06
1596	420638.25	3734426.31	1.24E-03	5.67E-03	1.24E-05	1.70E-04	7.76E-04	1.85E-06	1.04E-04	3.57E-04	4.29E-07
1597	420646.59	3734431.15	1.63E-03	7.45E-03	1.63E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.68E-04	5.63E-07
1598	420654.93	3734435.99	2.22E-03	1.02E-02	2.22E-05	3.05E-04	1.39E-03	3.31E-06	1.87E-04	6.39E-04	7.69E-07
1599	420663.28	3734440.83	3.19E-03	1.46E-02	3.19E-05	4.37E-04	1.99E-03	4.75E-06	2.68E-04	9.16E-04	1.10E-06
1600	420608.6	3734409.13	5.93E-04	2.71E-03	5.93E-06	8.13E-05	3.71E-04	8.83E-07	4.99E-05	1.70E-04	2.05E-07
1601	420641.57	3734439.8	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.62E-04	2.29E-06	1.29E-04	4.42E-04	5.32E-07
1602	420649.91	3734444.64	2.06E-03	9.43E-03	2.06E-05	2.83E-04	1.29E-03	3.07E-06	1.74E-04	5.93E-04	7.13E-07
1603	420658.26	3734449.48	2.88E-03	1.32E-02	2.88E-05	3.95E-04	1.80E-03	4.29E-06	2.43E-04	8.28E-04	9.96E-07
1604	420613.84	3734432.76	7.61E-04	3.48E-03	7.61E-06	1.04E-04	4.76E-04	1.13E-06	6.40E-05	2.19E-04	2.63E-07
1605	420599.51	3734412.54	5.24E-04	2.39E-03	5.23E-06	7.18E-05	3.27E-04	7.80E-07	4.41E-05	1.51E-04	1.81E-07
1606	420644.9	3734453.29	1.87E-03	8.55E-03	1.87E-05	2.56E-04	1.17E-03	2.79E-06	1.57E-04	5.38E-04	6.47E-07
1607	420653.24	3734458.13	2.55E-03	1.16E-02	2.55E-05	3.49E-04	1.59E-03	3.79E-06	2.14E-04	7.32E-04	8.80E-07
1608	420609.43	3734442.01	7.25E-04	3.32E-03	7.25E-06	9.94E-05	4.53E-04	1.08E-06	6.10E-05	2.08E-04	2.51E-07

1609	420598.58	3734431.19	5.64E-04	2.58E-03	5.64E-06	7.74E-05	3.53E-04	8.40E-07	4.75E-05	1.62E-04	1.95E-07
1610	420591.11	3734418.4	4.71E-04	2.16E-03	4.71E-06	6.46E-05	2.95E-04	7.02E-07	3.97E-05	1.35E-04	1.63E-07
1611	420639.88	3734461.94	1.67E-03	7.63E-03	1.67E-05	2.29E-04	1.04E-03	2.48E-06	1.40E-04	4.79E-04	5.76E-07
1612	420648.22	3734466.78	2.23E-03	1.02E-02	2.23E-05	3.06E-04	1.40E-03	3.32E-06	1.88E-04	6.41E-04	7.71E-07
1613	420590.85	3734437.14	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.13E-04	7.46E-07	4.22E-05	1.44E-04	1.73E-07
1614	420582.13	3734422.22	4.15E-04	1.90E-03	4.14E-06	5.68E-05	2.59E-04	6.17E-07	3.49E-05	1.19E-04	1.43E-07
1615	420579.74	3734413.6	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.77E-07	3.26E-05	1.11E-04	1.34E-07
1616	420643.2	3734475.43	1.93E-03	8.82E-03	1.93E-05	2.64E-04	1.21E-03	2.87E-06	1.62E-04	5.54E-04	6.67E-07
1617	420573.7	3734428	3.69E-04	1.69E-03	3.69E-06	5.06E-05	2.31E-04	5.49E-07	3.11E-05	1.06E-04	1.28E-07
1618	420569.33	3734412.25	3.32E-04	1.52E-03	3.31E-06	4.55E-05	2.07E-04	4.94E-07	2.79E-05	9.53E-05	1.15E-07
1619	420613.16	3734469.56	8.35E-04	3.82E-03	8.35E-06	1.15E-04	5.22E-04	1.24E-06	7.03E-05	2.40E-04	2.89E-07
1620	420638.18	3734484.08	1.64E-03	7.52E-03	1.64E-05	2.25E-04	1.03E-03	2.45E-06	1.38E-04	4.72E-04	5.68E-07
1621	420593.29	3734466.88	5.45E-04	2.49E-03	5.45E-06	7.47E-05	3.41E-04	8.11E-07	4.59E-05	1.57E-04	1.88E-07
1622	420564.79	3734432.06	3.25E-04	1.49E-03	3.25E-06	4.45E-05	2.03E-04	4.84E-07	2.73E-05	9.34E-05	1.12E-07
1623	420562.34	3734423.2	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
1624	420559.88	3734414.34	2.93E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.36E-07	2.46E-05	8.41E-05	1.01E-07
1625	420557.42	3734405.48	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.32E-05	7.94E-05	9.55E-08
1626	420599.8	3734473.37	6.21E-04	2.84E-03	6.21E-06	8.52E-05	3.89E-04	9.25E-07	5.23E-05	1.79E-04	2.15E-07
1627	420608.14	3734478.21	7.43E-04	3.40E-03	7.43E-06	1.02E-04	4.65E-04	1.11E-06	6.25E-05	2.14E-04	2.57E-07
1628	420616.48	3734483.05	9.00E-04	4.12E-03	9.00E-06	1.23E-04	5.63E-04	1.34E-06	7.57E-05	2.59E-04	3.11E-07
1629	420588.75	3734476.01	4.97E-04	2.27E-03	4.96E-06	6.81E-05	3.10E-04	7.39E-07	4.18E-05	1.43E-04	1.72E-07
1630	420576.7	3734463.99	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.38E-05	1.15E-04	1.39E-07
1631	420556.34	3734437.76	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.80E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
1632	420551.79	3734421.35	2.66E-04	1.22E-03	2.66E-06	3.64E-05	1.66E-04	3.96E-07	2.24E-05	7.64E-05	9.19E-08
1633	420603.12	3734486.86	6.56E-04	3.00E-03	6.56E-06	8.99E-05	4.10E-04	9.77E-07	5.52E-05	1.89E-04	2.27E-07
1634	420611.46	3734491.7	7.84E-04	3.58E-03	7.83E-06	1.07E-04	4.90E-04	1.17E-06	6.59E-05	2.25E-04	2.71E-07
1635	420578.54	3734493.14	3.99E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.15E-04	1.38E-07
1636	420566.14	3734480.77	3.30E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.49E-05	1.14E-07
1637	420553.74	3734468.41	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.32E-05	7.94E-05	9.55E-08
1638	420534.33	3734430.74	2.13E-04	9.73E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.11E-05	7.35E-08
1639	420529.65	3734413.87	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.85E-08
1640	420593.08	3734504.16	5.07E-04	2.32E-03	5.07E-06	6.95E-05	3.17E-04	7.55E-07	4.26E-05	1.46E-04	1.75E-07
1641	420601.43	3734509	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
1642	420609.77	3734513.84	6.91E-04	3.16E-03	6.91E-06	9.47E-05	4.32E-04	1.03E-06	5.81E-05	1.99E-04	2.39E-07
1643	420568.38	3734510.31	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
1644	420555.72	3734497.69	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.80E-05	9.38E-08
1645	420543.06	3734485.07	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.64E-05	7.99E-08
1646	420530.4	3734472.45	1.98E-04	9.05E-04	1.98E-06	2.71E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.84E-08
1647	420516.91	3734440.3	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
1648	420512.13	3734423.08	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
1649	420583.05	3734521.46	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.86E-07	3.31E-05	1.13E-04	1.36E-07
1650	420591.39	3734526.3	4.47E-04	2.05E-03	4.47E-06	6.13E-05	2.80E-04	6.66E-07	3.76E-05	1.29E-04	1.55E-07
1651	420599.73	3734531.14	5.10E-04	2.33E-03	5.10E-06	6.99E-05	3.19E-04	7.59E-07	4.29E-05	1.47E-04	1.76E-07
1652	420608.07	3734535.98	5.84E-04	2.67E-03	5.83E-06	8.00E-05	3.65E-04	8.69E-07	4.91E-05	1.68E-04	2.02E-07
1653	420558.24	3734527.51	2.60E-04	1.19E-03	2.59E-06	3.56E-05	1.62E-04	3.86E-07	2.18E-05	7.46E-05	8.97E-08
1654	420551.81	3734521.1	2.42E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.60E-07	2.03E-05	6.94E-05	8.35E-08
1655	420538.95	3734508.27	2.09E-04	9.55E-04	2.09E-06	2.86E-05	1.31E-04	3.11E-07	1.76E-05	6.00E-05	7.22E-08
1656	420532.52	3734501.86	1.94E-04	8.89E-04	1.94E-06	2.67E-05	1.22E-04	2.89E-07	1.64E-05	5.59E-05	6.72E-08
1657	420519.66	3734489.04	1.69E-04	7.72E-04	1.69E-06	2.31E-05	1.06E-04	2.51E-07	1.42E-05	4.85E-05	5.83E-08
1658	420504.38	3734467.48	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
1659	420497.1	3734441.23	1.36E-04	6.23E-04	1.36E-06	1.87E-05	8.52E-05	2.03E-07	1.15E-05	3.91E-05	4.71E-08
1660	420494.68	3734432.48	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.60E-08
1661	420492.25	3734423.73	1.30E-04	5.95E-04	1.30E-06	1.78E-05	8.14E-05	1.94E-07	1.09E-05	3.74E-05	4.50E-08
1662	420489.82	3734414.98	1.27E-04	5.81E-04	1.27E-06	1.74E-05	7.94E-05	1.89E-07	1.07E-05	3.65E-05	4.39E-08
1663	420487.4	3734406.23	1.24E-04	5.66E-04	1.24E-06	1.70E-05	7.74E-05	1.84E-07	1.04E-05	3.56E-05	4.28E-08
1664	420564.67	3734533.92	2.79E-04	1.28E-03	2.79E-06	3.82E-05	1.74E-04	4.15E-07	2.35E-05	8.01E-05	9.64E-08
1665	420535.1	3734531.74	1.87E-04	8.57E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.48E-08
1666	420528.59	3734525.25	1.76E-04	8.03E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.05E-05	6.07E-08
1667	420522.08	3734518.76	1.65E-04	7.53E-04	1.65E-06	2.26E-05	1.03E-04	2.45E-07	1.39E-05	4.73E-05	5.69E-08
1668	420515.57	3734512.27	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.65E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
1669	420509.06	3734505.78	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.05E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
1670	420502.55	3734499.29	1.36E-04	6.21E-04	1.36E-06	1.86E-05	8.50E-05	2.02E-07	1.14E-05	3.91E-05	4.70E-08

1671	420496.05	3734492.8	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
1672	420487.08	3734477.45	1.18E-04	5.40E-04	1.18E-06	1.62E-05	7.39E-05	1.76E-07	9.94E-06	3.40E-05	4.08E-08
1673	420484.62	3734468.6	1.16E-04	5.32E-04	1.16E-06	1.59E-05	7.27E-05	1.73E-07	9.79E-06	3.34E-05	4.02E-08
1674	420482.17	3734459.74	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.15E-05	1.70E-07	9.62E-06	3.29E-05	3.95E-08
1675	420477.25	3734442.02	1.10E-04	5.05E-04	1.10E-06	1.51E-05	6.90E-05	1.64E-07	9.29E-06	3.17E-05	3.82E-08
1676	420474.8	3734433.16	1.08E-04	4.95E-04	1.08E-06	1.48E-05	6.77E-05	1.61E-07	9.11E-06	3.11E-05	3.74E-08
1677	420472.34	3734424.31	1.06E-04	4.86E-04	1.06E-06	1.46E-05	6.64E-05	1.58E-07	8.93E-06	3.05E-05	3.67E-08
1678	420469.89	3734415.45	1.04E-04	4.76E-04	1.04E-06	1.43E-05	6.50E-05	1.55E-07	8.75E-06	2.99E-05	3.60E-08
1679	420467.43	3734406.59	1.02E-04	4.65E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.57E-06	2.93E-05	3.52E-08
1680	420579.66	3734565.73	2.98E-04	1.36E-03	2.98E-06	4.08E-05	1.86E-04	4.44E-07	2.51E-05	8.56E-05	1.03E-07
1681	420588	3734570.57	3.26E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.38E-05	1.13E-07
1682	420538.02	3734561.96	1.76E-04	8.04E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.05E-05	6.08E-08
1683	420511.72	3734535.74	1.40E-04	6.42E-04	1.40E-06	1.93E-05	8.78E-05	2.09E-07	1.18E-05	4.04E-05	4.85E-08
1684	420505.14	3734529.18	1.33E-04	6.06E-04	1.32E-06	1.82E-05	8.29E-05	1.97E-07	1.12E-05	3.81E-05	4.58E-08
1685	420498.57	3734522.62	1.25E-04	5.72E-04	1.25E-06	1.71E-05	7.82E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
1686	420491.99	3734516.07	1.18E-04	5.39E-04	1.18E-06	1.62E-05	7.38E-05	1.76E-07	9.92E-06	3.39E-05	4.08E-08
1687	420485.42	3734509.51	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.96E-05	1.66E-07	9.37E-06	3.20E-05	3.85E-08
1688	420478.84	3734502.96	1.05E-04	4.81E-04	1.05E-06	1.44E-05	6.57E-05	1.56E-07	8.84E-06	3.02E-05	3.63E-08
1689	420469.79	3734487.45	9.80E-05	4.48E-04	9.80E-07	1.34E-05	6.13E-05	1.46E-07	8.25E-06	2.82E-05	3.39E-08
1690	420467.3	3734478.51	9.67E-05	4.42E-04	9.66E-07	1.32E-05	6.04E-05	1.44E-07	8.13E-06	2.78E-05	3.34E-08
1691	420464.82	3734469.56	9.53E-05	4.36E-04	9.52E-07	1.31E-05	5.96E-05	1.42E-07	8.02E-06	2.74E-05	3.29E-08
1692	420462.34	3734460.61	9.39E-05	4.29E-04	9.38E-07	1.29E-05	5.87E-05	1.40E-07	7.90E-06	2.70E-05	3.24E-08
1693	420457.38	3734442.72	9.09E-05	4.16E-04	9.09E-07	1.25E-05	5.69E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
1694	420454.9	3734433.77	8.94E-05	4.09E-04	8.94E-07	1.23E-05	5.59E-05	1.33E-07	7.52E-06	2.57E-05	3.09E-08
1695	420452.42	3734424.82	8.79E-05	4.02E-04	8.79E-07	1.21E-05	5.50E-05	1.31E-07	7.40E-06	2.53E-05	3.04E-08
1696	420449.94	3734415.87	8.64E-05	3.95E-04	8.63E-07	1.18E-05	5.40E-05	1.29E-07	7.27E-06	2.48E-05	2.99E-08
1697	420447.46	3734406.93	8.48E-05	3.88E-04	8.48E-07	1.16E-05	5.30E-05	1.26E-07	7.14E-06	2.44E-05	2.93E-08
1698	420544.6	3734568.51	1.85E-04	8.47E-04	1.85E-06	2.54E-05	1.16E-04	2.76E-07	1.56E-05	5.33E-05	6.40E-08
1699	420569.62	3734583.03	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
1700	420577.97	3734587.87	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.13E-05	7.29E-05	8.76E-08
1701	420527.93	3734579.2	1.47E-04	6.71E-04	1.47E-06	2.01E-05	9.17E-05	2.18E-07	1.23E-05	4.22E-05	5.07E-08
1702	420521.3	3734572.59	1.40E-04	6.40E-04	1.40E-06	1.92E-05	8.75E-05	2.08E-07	1.18E-05	4.02E-05	4.84E-08
1703	420514.67	3734565.98	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.61E-08
1704	420481.52	3734532.93	1.03E-04	4.71E-04	1.03E-06	1.41E-05	6.44E-05	1.53E-07	8.66E-06	2.96E-05	3.56E-08
1705	420474.89	3734526.32	9.76E-05	4.46E-04	9.76E-07	1.34E-05	6.10E-05	1.45E-07	8.21E-06	2.80E-05	3.37E-08
1706	420468.26	3734519.71	9.26E-05	4.23E-04	9.25E-07	1.27E-05	5.79E-05	1.38E-07	7.79E-06	2.66E-05	3.20E-08
1707	420461.63	3734513.1	8.78E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.52E-05	3.03E-08
1708	420452.5	3734497.47	8.24E-05	3.77E-04	8.23E-07	1.13E-05	5.15E-05	1.23E-07	6.93E-06	2.37E-05	2.85E-08
1709	420449.99	3734488.44	8.13E-05	3.72E-04	8.13E-07	1.11E-05	5.08E-05	1.21E-07	6.84E-06	2.34E-05	2.81E-08
1710	420447.49	3734479.42	8.03E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
1711	420444.99	3734470.4	7.93E-05	3.62E-04	7.92E-07	1.09E-05	4.96E-05	1.18E-07	6.67E-06	2.28E-05	2.74E-08
1712	420534.56	3734585.81	1.53E-04	7.02E-04	1.53E-06	2.10E-05	9.59E-05	2.28E-07	1.29E-05	4.41E-05	5.30E-08
1713	420542.9	3734590.65	1.65E-04	7.52E-04	1.64E-06	2.26E-05	1.03E-04	2.45E-07	1.38E-05	4.73E-05	5.68E-08
1714	420551.24	3734595.49	1.76E-04	8.05E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.06E-05	6.09E-08
1715	420517.85	3734596.46	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.54E-05	4.26E-08
1716	420511.17	3734589.8	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
1717	420504.49	3734583.14	1.14E-04	5.19E-04	1.13E-06	1.56E-05	7.10E-05	1.69E-07	9.55E-06	3.26E-05	3.92E-08
1718	420497.82	3734576.49	1.09E-04	4.97E-04	1.09E-06	1.49E-05	6.80E-05	1.62E-07	9.15E-06	3.12E-05	3.76E-08
1719	420491.14	3734569.83	1.04E-04	4.75E-04	1.04E-06	1.42E-05	6.50E-05	1.55E-07	8.74E-06	2.99E-05	3.59E-08
1720	420484.46	3734563.17	9.92E-05	4.54E-04	9.92E-07	1.36E-05	6.21E-05	1.48E-07	8.35E-06	2.85E-05	3.43E-08
1721	420457.76	3734536.55	8.19E-05	3.74E-04	8.19E-07	1.12E-05	5.12E-05	1.22E-07	6.89E-06	2.35E-05	2.83E-08
1722	420451.08	3734529.89	7.80E-05	3.57E-04	7.80E-07	1.07E-05	4.88E-05	1.16E-07	6.56E-06	2.24E-05	2.70E-08
1723	420444.4	3734523.23	7.43E-05	3.40E-04	7.42E-07	1.02E-05	4.64E-05	1.11E-07	6.25E-06	2.13E-05	2.57E-08
1724	420425.13	3734471.15	6.68E-05	3.05E-04	6.68E-07	9.16E-06	4.18E-05	9.94E-08	5.62E-06	1.92E-05	2.31E-08
1725	420422.61	3734462.07	6.60E-05	3.02E-04	6.59E-07	9.04E-06	4.12E-05	9.82E-08	5.55E-06	1.90E-05	2.28E-08
1726	420415.05	3734434.81	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
1727	420412.54	3734425.72	6.26E-05	2.86E-04	6.26E-07	8.58E-06	3.91E-05	9.32E-08	5.27E-06	1.80E-05	2.16E-08
1728	420410.02	3734416.64	6.18E-05	2.82E-04	6.17E-07	8.47E-06	3.86E-05	9.19E-08	5.20E-06	1.77E-05	2.13E-08
1729	420407.5	3734407.55	6.09E-05	2.78E-04	6.09E-07	8.35E-06	3.81E-05	9.07E-08	5.12E-06	1.75E-05	2.10E-08
1730	420524.52	3734603.11	1.28E-04	5.86E-04	1.28E-06	1.76E-05	8.02E-05	1.91E-07	1.08E-05	3.68E-05	4.43E-08
1731	420532.87	3734607.95	1.36E-04	6.24E-04	1.36E-06	1.87E-05	8.53E-05	2.03E-07	1.15E-05	3.92E-05	4.71E-08
1732	420541.21	3734612.79	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08

1733	420549.55	3734617.63	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.61E-05	2.29E-07	1.29E-05	4.42E-05	5.31E-08
1734	420507.77	3734613.72	1.05E-04	4.79E-04	1.05E-06	1.43E-05	6.54E-05	1.56E-07	8.81E-06	3.01E-05	3.62E-08
1735	420501.05	3734607.02	1.01E-04	4.62E-04	1.01E-06	1.39E-05	6.32E-05	1.50E-07	8.50E-06	2.90E-05	3.49E-08
1736	420494.34	3734600.32	9.74E-05	4.45E-04	9.74E-07	1.34E-05	6.09E-05	1.45E-07	8.20E-06	2.80E-05	3.37E-08
1737	420487.62	3734593.63	9.38E-05	4.29E-04	9.37E-07	1.29E-05	5.86E-05	1.40E-07	7.89E-06	2.69E-05	3.24E-08
1738	420480.9	3734586.93	9.01E-05	4.12E-04	9.01E-07	1.24E-05	5.63E-05	1.34E-07	7.58E-06	2.59E-05	3.11E-08
1739	420474.19	3734580.23	8.65E-05	3.95E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
1740	420467.47	3734573.54	8.29E-05	3.79E-04	8.29E-07	1.14E-05	5.18E-05	1.23E-07	6.98E-06	2.38E-05	2.87E-08
1741	420460.76	3734566.84	7.94E-05	3.63E-04	7.94E-07	1.09E-05	4.96E-05	1.18E-07	6.68E-06	2.28E-05	2.74E-08
1742	420454.04	3734560.15	7.60E-05	3.47E-04	7.60E-07	1.04E-05	4.75E-05	1.13E-07	6.39E-06	2.18E-05	2.63E-08
1743	420427.17	3734533.36	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
1744	420417.92	3734517.53	6.01E-05	2.75E-04	6.01E-07	8.24E-06	3.76E-05	8.95E-08	5.06E-06	1.73E-05	2.08E-08
1745	420415.39	3734508.39	5.95E-05	2.72E-04	5.95E-07	8.16E-06	3.72E-05	8.86E-08	5.01E-06	1.71E-05	2.06E-08
1746	420412.86	3734499.25	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
1747	420410.32	3734490.11	5.83E-05	2.66E-04	5.82E-07	7.99E-06	3.64E-05	8.68E-08	4.90E-06	1.67E-05	2.01E-08
1748	420407.79	3734480.97	5.76E-05	2.63E-04	5.76E-07	7.90E-06	3.60E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
1749	420405.25	3734471.83	5.70E-05	2.60E-04	5.69E-07	7.81E-06	3.56E-05	8.48E-08	4.79E-06	1.64E-05	1.97E-08
1750	420402.72	3734462.69	5.63E-05	2.57E-04	5.63E-07	7.72E-06	3.52E-05	8.38E-08	4.74E-06	1.62E-05	1.95E-08
1751	420395.12	3734435.27	5.44E-05	2.49E-04	5.43E-07	7.45E-06	3.40E-05	8.09E-08	4.57E-06	1.56E-05	1.88E-08
1752	420392.58	3734426.13	5.37E-05	2.46E-04	5.37E-07	7.36E-06	3.36E-05	7.99E-08	4.52E-06	1.54E-05	1.86E-08
1753	420390.05	3734416.99	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
1754	420387.51	3734407.85	5.24E-05	2.40E-04	5.24E-07	7.18E-06	3.28E-05	7.80E-08	4.41E-06	1.51E-05	1.81E-08
1755	420514.49	3734620.41	1.08E-04	4.95E-04	1.08E-06	1.48E-05	6.77E-05	1.61E-07	9.11E-06	3.11E-05	3.74E-08
1756	420522.83	3734625.25	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.16E-05	1.70E-07	9.63E-06	3.29E-05	3.96E-08
1757	420531.17	3734630.09	1.21E-04	5.52E-04	1.21E-06	1.66E-05	7.55E-05	1.80E-07	1.02E-05	3.47E-05	4.18E-08
1758	420539.51	3734634.93	1.27E-04	5.82E-04	1.27E-06	1.75E-05	7.96E-05	1.90E-07	1.07E-05	3.66E-05	4.40E-08
1759	420497.7	3734630.98	8.98E-05	4.10E-04	8.97E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
1760	420490.95	3734624.25	8.70E-05	3.98E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.32E-06	2.50E-05	3.01E-08
1761	420484.2	3734617.52	8.42E-05	3.85E-04	8.42E-07	1.15E-05	5.26E-05	1.25E-07	7.08E-06	2.42E-05	2.91E-08
1762	420477.45	3734610.79	8.14E-05	3.72E-04	8.14E-07	1.12E-05	5.09E-05	1.21E-07	6.85E-06	2.34E-05	2.81E-08
1763	420470.7	3734604.06	7.86E-05	3.59E-04	7.85E-07	1.08E-05	4.91E-05	1.17E-07	6.61E-06	2.26E-05	2.72E-08
1764	420463.95	3734597.33	7.57E-05	3.46E-04	7.57E-07	1.04E-05	4.74E-05	1.13E-07	6.37E-06	2.18E-05	2.62E-08
1765	420457.19	3734590.6	7.29E-05	3.33E-04	7.29E-07	1.00E-05	4.56E-05	1.09E-07	6.14E-06	2.10E-05	2.52E-08
1766	420450.44	3734583.87	7.01E-05	3.21E-04	7.01E-07	9.62E-06	4.39E-05	1.04E-07	5.90E-06	2.02E-05	2.42E-08
1767	420443.69	3734577.14	6.74E-05	3.08E-04	6.74E-07	9.24E-06	4.21E-05	1.00E-07	5.67E-06	1.94E-05	2.33E-08
1768	420436.94	3734570.41	6.47E-05	2.96E-04	6.47E-07	8.87E-06	4.05E-05	9.63E-08	5.44E-06	1.86E-05	2.24E-08
1769	420400.64	3734527.57	5.21E-05	2.38E-04	5.20E-07	7.14E-06	3.25E-05	7.75E-08	4.38E-06	1.50E-05	1.80E-08
1770	420398.09	3734518.38	5.16E-05	2.36E-04	5.16E-07	7.07E-06	3.23E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
1771	420395.55	3734509.19	5.11E-05	2.34E-04	5.11E-07	7.01E-06	3.20E-05	7.61E-08	4.30E-06	1.47E-05	1.77E-08
1772	420393	3734500.01	5.06E-05	2.32E-04	5.06E-07	6.94E-06	3.17E-05	7.54E-08	4.26E-06	1.46E-05	1.75E-08
1773	420390.45	3734490.82	5.01E-05	2.29E-04	5.01E-07	6.87E-06	3.13E-05	7.46E-08	4.22E-06	1.44E-05	1.73E-08
1774	420387.91	3734481.64	4.96E-05	2.27E-04	4.96E-07	6.80E-06	3.10E-05	7.38E-08	4.17E-06	1.43E-05	1.71E-08
1775	420385.36	3734472.45	4.91E-05	2.24E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
1776	420382.81	3734463.26	4.86E-05	2.22E-04	4.85E-07	6.66E-06	3.04E-05	7.23E-08	4.09E-06	1.40E-05	1.68E-08
1777	420375.17	3734435.71	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	7.00E-08	3.95E-06	1.35E-05	1.62E-08
1778	420372.62	3734426.52	4.65E-05	2.13E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
1779	420370.08	3734417.33	4.60E-05	2.10E-04	4.60E-07	6.30E-06	2.88E-05	6.85E-08	3.87E-06	1.32E-05	1.59E-08
1780	420367.53	3734408.15	4.55E-05	2.08E-04	4.55E-07	6.23E-06	2.84E-05	6.77E-08	3.83E-06	1.31E-05	1.57E-08
1781	420537.82	3734657.07	1.12E-04	5.11E-04	1.12E-06	1.53E-05	6.99E-05	1.66E-07	9.41E-06	3.21E-05	3.86E-08
1782	420474.07	3734634.73	7.32E-05	3.35E-04	7.32E-07	1.00E-05	4.58E-05	1.09E-07	6.16E-06	2.10E-05	2.53E-08
1783	420467.29	3734627.97	7.11E-05	3.25E-04	7.10E-07	9.74E-06	4.44E-05	1.06E-07	5.98E-06	2.04E-05	2.46E-08
1784	420460.51	3734621.21	6.88E-05	3.15E-04	6.88E-07	9.44E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
1785	420453.73	3734614.45	6.66E-05	3.05E-04	6.66E-07	9.13E-06	4.17E-05	9.92E-08	5.61E-06	1.91E-05	2.30E-08
1786	420446.95	3734607.69	6.44E-05	2.94E-04	6.44E-07	8.83E-06	4.03E-05	9.59E-08	5.42E-06	1.85E-05	2.23E-08
1787	420440.17	3734600.93	6.22E-05	2.84E-04	6.21E-07	8.52E-06	3.89E-05	9.25E-08	5.23E-06	1.79E-05	2.15E-08
1788	420413.04	3734573.88	5.35E-05	2.45E-04	5.35E-07	7.34E-06	3.35E-05	7.97E-08	4.50E-06	1.54E-05	1.85E-08
1789	420406.26	3734567.12	5.15E-05	2.35E-04	5.14E-07	7.06E-06	3.22E-05	7.66E-08	4.33E-06	1.48E-05	1.78E-08
1790	420399.48	3734560.36	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.09E-05	7.37E-08	4.16E-06	1.42E-05	1.71E-08
1791	420383.36	3734537.61	4.54E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.76E-08	3.82E-06	1.31E-05	1.57E-08
1792	420380.8	3734528.39	4.51E-05	2.06E-04	4.51E-07	6.18E-06	2.82E-05	6.71E-08	3.79E-06	1.30E-05	1.56E-08
1793	420378.24	3734519.16	4.47E-05	2.04E-04	4.47E-07	6.13E-06	2.80E-05	6.66E-08	3.76E-06	1.28E-05	1.55E-08
1794	420375.69	3734509.93	4.43E-05	2.03E-04	4.43E-07	6.08E-06	2.77E-05	6.60E-08	3.73E-06	1.27E-05	1.53E-08

1795	420373.13	3734500.7	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.75E-05	6.54E-08	3.70E-06	1.26E-05	1.52E-08
1796	420370.57	3734491.48	4.35E-05	1.99E-04	4.35E-07	5.96E-06	2.72E-05	6.48E-08	3.66E-06	1.25E-05	1.50E-08
1797	420368.01	3734482.25	4.31E-05	1.97E-04	4.31E-07	5.91E-06	2.69E-05	6.41E-08	3.62E-06	1.24E-05	1.49E-08
1798	420365.45	3734473.02	4.27E-05	1.95E-04	4.26E-07	5.85E-06	2.67E-05	6.35E-08	3.59E-06	1.23E-05	1.47E-08
1799	420362.89	3734463.8	4.22E-05	1.93E-04	4.22E-07	5.79E-06	2.64E-05	6.29E-08	3.55E-06	1.21E-05	1.46E-08
1800	420355.22	3734436.11	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
1801	420352.66	3734426.89	4.06E-05	1.86E-04	4.06E-07	5.56E-06	2.54E-05	6.04E-08	3.41E-06	1.17E-05	1.40E-08
1802	420350.1	3734417.66	4.02E-05	1.84E-04	4.02E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
1803	420347.54	3734408.43	3.98E-05	1.82E-04	3.98E-07	5.45E-06	2.49E-05	5.92E-08	3.35E-06	1.14E-05	1.37E-08
1804	420502.76	3734659.85	8.33E-05	3.81E-04	8.33E-07	1.14E-05	5.21E-05	1.24E-07	7.01E-06	2.39E-05	2.88E-08
1805	420511.1	3734664.69	8.71E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.33E-06	2.50E-05	3.01E-08
1806	420519.44	3734669.53	9.08E-05	4.15E-04	9.08E-07	1.24E-05	5.68E-05	1.35E-07	7.64E-06	2.61E-05	3.14E-08
1807	420527.78	3734674.37	9.45E-05	4.32E-04	9.45E-07	1.30E-05	5.91E-05	1.41E-07	7.95E-06	2.72E-05	3.27E-08
1808	420467.87	3734683.16	5.94E-05	2.71E-04	5.93E-07	8.14E-06	3.71E-05	8.83E-08	4.99E-06	1.71E-05	2.05E-08
1809	420461.4	3734676.71	5.81E-05	2.66E-04	5.80E-07	7.96E-06	3.63E-05	8.64E-08	4.89E-06	1.67E-05	2.01E-08
1810	420454.93	3734670.25	5.65E-05	2.59E-04	5.65E-07	7.75E-06	3.53E-05	8.42E-08	4.76E-06	1.62E-05	1.95E-08
1811	420448.45	3734663.8	5.52E-05	2.53E-04	5.52E-07	7.57E-06	3.45E-05	8.22E-08	4.65E-06	1.59E-05	1.91E-08
1812	420416.1	3734631.54	4.86E-05	2.22E-04	4.86E-07	6.66E-06	3.04E-05	7.23E-08	4.09E-06	1.40E-05	1.68E-08
1813	420409.62	3734625.09	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.03E-08	3.97E-06	1.36E-05	1.63E-08
1814	420396.68	3734612.18	4.45E-05	2.03E-04	4.44E-07	6.09E-06	2.78E-05	6.62E-08	3.74E-06	1.28E-05	1.54E-08
1815	420390.21	3734605.73	4.31E-05	1.97E-04	4.31E-07	5.91E-06	2.69E-05	6.42E-08	3.63E-06	1.24E-05	1.49E-08
1816	420383.74	3734599.28	4.18E-05	1.91E-04	4.17E-07	5.73E-06	2.61E-05	6.22E-08	3.51E-06	1.20E-05	1.44E-08
1817	420377.27	3734592.83	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
1818	420370.8	3734586.37	3.92E-05	1.79E-04	3.92E-07	5.37E-06	2.45E-05	5.83E-08	3.30E-06	1.13E-05	1.35E-08
1819	420357.85	3734573.47	3.67E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
1820	420341.61	3734531.79	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.97E-06	1.20E-08
1821	420339.17	3734522.99	3.45E-05	1.58E-04	3.44E-07	4.72E-06	2.15E-05	5.13E-08	2.90E-06	9.90E-06	1.19E-08
1822	420336.73	3734514.18	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
1823	420334.29	3734505.37	3.40E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.76E-06	1.17E-08
1824	420331.85	3734496.57	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.01E-08	2.83E-06	9.68E-06	1.16E-08
1825	420329.4	3734487.76	3.34E-05	1.53E-04	3.34E-07	4.58E-06	2.09E-05	4.98E-08	2.81E-06	9.60E-06	1.16E-08
1826	420326.96	3734478.95	3.32E-05	1.52E-04	3.31E-07	4.55E-06	2.07E-05	4.94E-08	2.79E-06	9.53E-06	1.15E-08
1827	420324.52	3734470.15	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.45E-06	1.14E-08
1828	420322.08	3734461.34	3.26E-05	1.49E-04	3.26E-07	4.47E-06	2.04E-05	4.86E-08	2.74E-06	9.38E-06	1.13E-08
1829	420317.19	3734443.73	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.22E-06	1.11E-08
1830	420314.75	3734434.92	3.18E-05	1.46E-04	3.18E-07	4.36E-06	1.99E-05	4.74E-08	2.68E-06	9.15E-06	1.10E-08
1831	420312.31	3734426.12	3.16E-05	1.44E-04	3.16E-07	4.33E-06	1.97E-05	4.70E-08	2.66E-06	9.07E-06	1.09E-08
1832	420309.87	3734417.31	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.63E-06	8.99E-06	1.08E-08
1833	420307.43	3734408.5	3.10E-05	1.42E-04	3.10E-07	4.25E-06	1.94E-05	4.62E-08	2.61E-06	8.92E-06	1.07E-08
1834	420482.68	3734694.45	6.29E-05	2.88E-04	6.29E-07	8.62E-06	3.93E-05	9.36E-08	5.29E-06	1.81E-05	2.17E-08
1835	420491.03	3734699.29	6.52E-05	2.98E-04	6.52E-07	8.94E-06	4.08E-05	9.71E-08	5.49E-06	1.87E-05	2.25E-08
1836	420499.37	3734704.13	6.75E-05	3.08E-04	6.74E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
1837	420507.71	3734708.97	6.97E-05	3.19E-04	6.97E-07	9.56E-06	4.36E-05	1.04E-07	5.87E-06	2.00E-05	2.41E-08
1838	420447.72	3734717.68	4.66E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
1839	420441.18	3734711.16	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
1840	420434.64	3734704.64	4.49E-05	2.05E-04	4.49E-07	6.15E-06	2.81E-05	6.68E-08	3.78E-06	1.29E-05	1.55E-08
1841	420415	3734685.06	4.21E-05	1.93E-04	4.21E-07	5.78E-06	2.63E-05	6.27E-08	3.54E-06	1.21E-05	1.46E-08
1842	420408.46	3734678.54	4.12E-05	1.88E-04	4.12E-07	5.65E-06	2.57E-05	6.13E-08	3.46E-06	1.18E-05	1.42E-08
1843	420401.91	3734672.01	4.02E-05	1.84E-04	4.02E-07	5.52E-06	2.52E-05	5.99E-08	3.38E-06	1.16E-05	1.39E-08
1844	420395.37	3734665.49	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.85E-08	3.31E-06	1.13E-05	1.36E-08
1845	420388.83	3734658.96	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.40E-05	5.71E-08	3.23E-06	1.10E-05	1.32E-08
1846	420382.28	3734652.44	3.74E-05	1.71E-04	3.73E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1847	420375.74	3734645.91	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.28E-05	5.42E-08	3.06E-06	1.05E-05	1.26E-08
1848	420369.19	3734639.39	3.54E-05	1.62E-04	3.54E-07	4.86E-06	2.22E-05	5.27E-08	2.98E-06	1.02E-05	1.22E-08
1849	420362.65	3734632.86	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.13E-08	2.90E-06	9.91E-06	1.19E-08
1850	420356.11	3734626.34	3.36E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	5.00E-08	2.82E-06	9.64E-06	1.16E-08
1851	420349.56	3734619.82	3.26E-05	1.49E-04	3.26E-07	4.47E-06	2.04E-05	4.86E-08	2.75E-06	9.38E-06	1.13E-08
1852	420343.02	3734613.29	3.17E-05	1.45E-04	3.17E-07	4.35E-06	1.98E-05	4.72E-08	2.67E-06	9.12E-06	1.10E-08
1853	420336.47	3734606.77	3.08E-05	1.41E-04	3.08E-07	4.23E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
1854	420329.93	3734600.24	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.61E-06	1.04E-08
1855	420323.39	3734593.72	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.36E-06	1.01E-08
1856	420314.37	3734578.29	2.82E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09

1857	420311.9	3734569.38	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.06E-06	9.69E-09
1858	420302.03	3734533.76	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.72E-05	4.08E-08	2.31E-06	7.88E-06	9.48E-09
1859	420299.56	3734524.86	2.73E-05	1.25E-04	2.72E-07	3.74E-06	1.70E-05	4.06E-08	2.29E-06	7.83E-06	9.42E-09
1860	420274.87	3734435.81	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.13E-06	7.29E-06	8.77E-09
1861	420272.4	3734426.9	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.57E-05	3.75E-08	2.12E-06	7.23E-06	8.70E-09
1862	420269.93	3734418	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.64E-09
1863	420267.46	3734409.09	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
1864	420454.27	3734724.21	4.73E-05	2.16E-04	4.73E-07	6.49E-06	2.96E-05	7.05E-08	3.98E-06	1.36E-05	1.64E-08
1865	420462.61	3734729.05	4.89E-05	2.23E-04	4.88E-07	6.70E-06	3.05E-05	7.27E-08	4.11E-06	1.40E-05	1.69E-08
1866	420470.95	3734733.89	5.03E-05	2.30E-04	5.03E-07	6.90E-06	3.15E-05	7.49E-08	4.23E-06	1.45E-05	1.74E-08
1867	420427.59	3734752.22	3.74E-05	1.71E-04	3.74E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1868	420407.78	3734732.47	3.57E-05	1.63E-04	3.57E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.03E-05	1.23E-08
1869	420401.17	3734725.89	3.51E-05	1.60E-04	3.50E-07	4.81E-06	2.19E-05	5.22E-08	2.95E-06	1.01E-05	1.21E-08
1870	420394.57	3734719.3	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.89E-06	9.89E-06	1.19E-08
1871	420387.97	3734712.72	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.02E-08	2.84E-06	9.69E-06	1.17E-08
1872	420381.36	3734706.13	3.30E-05	1.51E-04	3.30E-07	4.53E-06	2.06E-05	4.92E-08	2.78E-06	9.49E-06	1.14E-08
1873	420374.76	3734699.55	3.23E-05	1.48E-04	3.23E-07	4.43E-06	2.02E-05	4.81E-08	2.72E-06	9.29E-06	1.12E-08
1874	420368.15	3734692.96	3.16E-05	1.45E-04	3.16E-07	4.33E-06	1.98E-05	4.71E-08	2.66E-06	9.08E-06	1.09E-08
1875	420361.55	3734686.38	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
1876	420354.95	3734679.8	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
1877	420348.34	3734673.21	2.95E-05	1.35E-04	2.95E-07	4.04E-06	1.84E-05	4.39E-08	2.48E-06	8.48E-06	1.02E-08
1878	420341.74	3734666.63	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.42E-06	8.28E-06	9.96E-09
1879	420335.13	3734660.04	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.08E-06	9.72E-09
1880	420328.53	3734653.46	2.75E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
1881	420321.93	3734646.87	2.68E-05	1.22E-04	2.68E-07	3.67E-06	1.67E-05	3.99E-08	2.25E-06	7.70E-06	9.26E-09
1882	420315.32	3734640.29	2.61E-05	1.19E-04	2.61E-07	3.58E-06	1.63E-05	3.89E-08	2.20E-06	7.51E-06	9.03E-09
1883	420288.91	3734613.95	2.35E-05	1.08E-04	2.35E-07	3.23E-06	1.47E-05	3.50E-08	1.98E-06	6.77E-06	8.14E-09
1884	420279.81	3734598.38	2.29E-05	1.04E-04	2.28E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
1885	420277.32	3734589.4	2.28E-05	1.04E-04	2.28E-07	3.12E-06	1.42E-05	3.39E-08	1.92E-06	6.54E-06	7.87E-09
1886	420274.83	3734580.41	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.38E-08	1.91E-06	6.52E-06	7.84E-09
1887	420272.34	3734571.42	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.36E-08	1.90E-06	6.49E-06	7.80E-09
1888	420269.84	3734562.44	2.25E-05	1.03E-04	2.25E-07	3.08E-06	1.41E-05	3.35E-08	1.89E-06	6.46E-06	7.77E-09
1889	420262.37	3734535.48	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.36E-06	7.64E-09
1890	420259.88	3734526.49	2.20E-05	1.01E-04	2.20E-07	3.01E-06	1.37E-05	3.27E-08	1.85E-06	6.32E-06	7.60E-09
1891	420257.39	3734517.5	2.19E-05	9.99E-05	2.18E-07	3.00E-06	1.37E-05	3.25E-08	1.84E-06	6.28E-06	7.55E-09
1892	420254.89	3734508.52	2.17E-05	9.93E-05	2.17E-07	2.98E-06	1.36E-05	3.23E-08	1.83E-06	6.24E-06	7.51E-09
1893	420252.4	3734499.53	2.16E-05	9.87E-05	2.16E-07	2.96E-06	1.35E-05	3.21E-08	1.82E-06	6.20E-06	7.46E-09
1894	420249.91	3734490.55	2.15E-05	9.81E-05	2.14E-07	2.94E-06	1.34E-05	3.19E-08	1.80E-06	6.16E-06	7.41E-09
1895	420247.42	3734481.56	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.13E-06	7.37E-09
1896	420244.93	3734472.57	2.12E-05	9.68E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.09E-06	7.32E-09
1897	420234.96	3734436.63	2.06E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
1898	420232.47	3734427.64	2.05E-05	9.38E-05	2.05E-07	2.81E-06	1.28E-05	3.05E-08	1.73E-06	5.90E-06	7.09E-09
1899	420229.98	3734418.65	2.04E-05	9.32E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.86E-06	7.04E-09
1900	420227.48	3734409.67	2.03E-05	9.26E-05	2.02E-07	2.78E-06	1.27E-05	3.01E-08	1.70E-06	5.82E-06	7.00E-09
1901	420434.19	3734758.81	3.79E-05	1.73E-04	3.78E-07	5.19E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
1902	420442.54	3734763.65	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
1903	420450.88	3734768.49	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.49E-05	5.94E-08	3.35E-06	1.15E-05	1.38E-08
1904	420459.22	3734773.33	4.09E-05	1.87E-04	4.08E-07	5.60E-06	2.55E-05	6.08E-08	3.44E-06	1.17E-05	1.41E-08
1905	420467.56	3734778.17	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
1906	420407.47	3734786.77	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.53E-08	2.56E-06	8.74E-06	1.05E-08
1907	420387.5	3734766.87	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
1908	420380.85	3734760.23	2.89E-05	1.32E-04	2.89E-07	3.96E-06	1.81E-05	4.30E-08	2.43E-06	8.30E-06	9.99E-09
1909	420374.2	3734753.6	2.84E-05	1.30E-04	2.84E-07	3.90E-06	1.78E-05	4.23E-08	2.39E-06	8.17E-06	9.82E-09
1910	420367.54	3734746.97	2.79E-05	1.28E-04	2.79E-07	3.83E-06	1.75E-05	4.16E-08	2.35E-06	8.03E-06	9.66E-09
1911	420360.89	3734740.33	2.74E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
1912	420354.23	3734733.7	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
1913	420347.58	3734727.06	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.12E-09
1914	420340.92	3734720.43	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.43E-06	8.94E-09
1915	420334.27	3734713.79	2.53E-05	1.16E-04	2.53E-07	3.47E-06	1.58E-05	3.77E-08	2.13E-06	7.28E-06	8.76E-09
1916	420327.62	3734707.16	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
1917	420320.96	3734700.52	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.62E-08	2.05E-06	6.99E-06	8.40E-09
1918	420314.31	3734693.89	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.84E-06	8.23E-09

1919	420294.34	3734673.99	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.70E-09
1920	420287.69	3734667.35	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.83E-06	6.27E-06	7.53E-09
1921	420281.04	3734660.72	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.13E-06	7.37E-09
1922	420274.38	3734654.08	2.08E-05	9.53E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
1923	420267.73	3734647.45	2.04E-05	9.31E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1924	420261.07	3734640.81	1.99E-05	9.09E-05	1.99E-07	2.72E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
1925	420254.42	3734634.18	1.94E-05	8.87E-05	1.94E-07	2.66E-06	1.21E-05	2.89E-08	1.63E-06	5.57E-06	6.70E-09
1926	420245.25	3734618.49	1.89E-05	8.63E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.52E-09
1927	420242.74	3734609.44	1.88E-05	8.60E-05	1.88E-07	2.58E-06	1.18E-05	2.80E-08	1.58E-06	5.40E-06	6.50E-09
1928	420240.23	3734600.38	1.87E-05	8.57E-05	1.87E-07	2.57E-06	1.17E-05	2.79E-08	1.58E-06	5.38E-06	6.48E-09
1929	420237.72	3734591.33	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
1930	420235.21	3734582.27	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
1931	420232.7	3734573.22	1.85E-05	8.47E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.32E-06	6.40E-09
1932	420230.19	3734564.16	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
1933	420222.66	3734537	1.82E-05	8.30E-05	1.81E-07	2.49E-06	1.13E-05	2.70E-08	1.53E-06	5.22E-06	6.27E-09
1934	420220.15	3734527.94	1.81E-05	8.25E-05	1.80E-07	2.47E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.24E-09
1935	420217.63	3734518.89	1.80E-05	8.21E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
1936	420215.12	3734509.83	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
1937	420212.61	3734500.78	1.78E-05	8.12E-05	1.78E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.14E-09
1938	420210.1	3734491.72	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
1939	420207.59	3734482.67	1.76E-05	8.04E-05	1.76E-07	2.41E-06	1.10E-05	2.62E-08	1.48E-06	5.05E-06	6.08E-09
1940	420205.08	3734473.61	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.60E-08	1.47E-06	5.03E-06	6.05E-09
1941	420202.57	3734464.56	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
1942	420195.04	3734437.39	1.71E-05	7.82E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.92E-06	5.91E-09
1943	420192.53	3734428.34	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
1944	420190.02	3734419.28	1.69E-05	7.74E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.85E-09
1945	420187.51	3734410.23	1.68E-05	7.69E-05	1.68E-07	2.31E-06	1.05E-05	2.50E-08	1.42E-06	4.83E-06	5.81E-09
1946	420414.12	3734793.41	3.08E-05	1.41E-04	3.07E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
1947	420422.46	3734798.25	3.15E-05	1.44E-04	3.14E-07	4.31E-06	1.97E-05	4.68E-08	2.65E-06	9.04E-06	1.09E-08
1948	420430.81	3734803.09	3.22E-05	1.47E-04	3.21E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.24E-06	1.11E-08
1949	420439.15	3734807.93	3.28E-05	1.50E-04	3.28E-07	4.50E-06	2.05E-05	4.89E-08	2.76E-06	9.44E-06	1.13E-08
1950	420447.49	3734812.77	3.35E-05	1.53E-04	3.35E-07	4.59E-06	2.09E-05	4.99E-08	2.82E-06	9.62E-06	1.16E-08
1951	420367.26	3734801.3	2.44E-05	1.12E-04	2.44E-07	3.34E-06	1.53E-05	3.63E-08	2.05E-06	7.01E-06	8.43E-09
1952	420360.56	3734794.62	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.59E-08	2.03E-06	6.92E-06	8.33E-09
1953	420353.87	3734787.94	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
1954	420313.68	3734747.88	2.15E-05	9.84E-05	2.15E-07	2.95E-06	1.35E-05	3.20E-08	1.81E-06	6.19E-06	7.44E-09
1955	420293.59	3734727.85	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1956	420286.89	3734721.17	2.00E-05	9.13E-05	2.00E-07	2.74E-06	1.25E-05	2.97E-08	1.68E-06	5.74E-06	6.90E-09
1957	420280.2	3734714.49	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.76E-09
1958	420273.5	3734707.82	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.61E-06	5.52E-06	6.63E-09
1959	420266.8	3734701.14	1.88E-05	8.60E-05	1.88E-07	2.58E-06	1.18E-05	2.80E-08	1.58E-06	5.41E-06	6.50E-09
1960	420260.11	3734694.46	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
1961	420253.41	3734687.78	1.81E-05	8.26E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.24E-09
1962	420246.71	3734681.11	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
1963	420240.01	3734674.43	1.73E-05	7.92E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.99E-09
1964	420233.32	3734667.75	1.70E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.86E-09
1965	420226.62	3734661.08	1.66E-05	7.59E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.73E-09
1966	420219.92	3734654.4	1.62E-05	7.42E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.66E-06	5.61E-09
1967	420200.59	3734602.16	1.57E-05	7.16E-05	1.57E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
1968	420198.06	3734593.04	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
1969	420195.54	3734583.93	1.55E-05	7.10E-05	1.55E-07	2.13E-06	9.71E-06	2.31E-08	1.31E-06	4.46E-06	5.37E-09
1970	420193.01	3734574.82	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1971	420190.48	3734565.7	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.62E-06	2.29E-08	1.29E-06	4.42E-06	5.32E-09
1972	420182.9	3734538.36	1.52E-05	6.93E-05	1.52E-07	2.08E-06	9.48E-06	2.26E-08	1.28E-06	4.36E-06	5.24E-09
1973	420180.38	3734529.25	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.44E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
1974	420177.85	3734520.14	1.50E-05	6.87E-05	1.50E-07	2.06E-06	9.39E-06	2.24E-08	1.26E-06	4.32E-06	5.19E-09
1975	420175.32	3734511.02	1.50E-05	6.84E-05	1.50E-07	2.05E-06	9.35E-06	2.23E-08	1.26E-06	4.30E-06	5.17E-09
1976	420172.79	3734501.91	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
1977	420170.27	3734492.8	1.48E-05	6.77E-05	1.48E-07	2.03E-06	9.26E-06	2.21E-08	1.25E-06	4.26E-06	5.12E-09
1978	420167.74	3734483.68	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
1979	420165.21	3734474.57	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.18E-06	2.19E-08	1.24E-06	4.22E-06	5.07E-09
1980	420155.11	3734438.12	1.44E-05	6.59E-05	1.44E-07	1.97E-06	9.01E-06	2.14E-08	1.21E-06	4.14E-06	4.98E-09

1981	420152.58	3734429	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
1982	420150.05	3734419.89	1.43E-05	6.52E-05	1.43E-07	1.95E-06	8.91E-06	2.12E-08	1.20E-06	4.10E-06	4.93E-09
1983	420147.52	3734410.78	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
1984	420394.05	3734828.01	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.77E-09
1985	420402.39	3734832.85	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.86E-08	2.18E-06	7.44E-06	8.95E-09
1986	420410.73	3734837.69	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.58E-06	9.12E-09
1987	420419.08	3734842.53	2.69E-05	1.23E-04	2.69E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.72E-06	9.29E-09
1988	420427.42	3734847.37	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.44E-09
1989	420353.77	3734842.46	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.16E-09
1990	420347.04	3734835.75	2.05E-05	9.39E-05	2.05E-07	2.82E-06	1.28E-05	3.06E-08	1.73E-06	5.90E-06	7.10E-09
1991	420340.31	3734829.03	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.02E-09
1992	420333.57	3734822.32	2.01E-05	9.17E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.76E-06	6.93E-09
1993	420326.84	3734815.61	1.98E-05	9.06E-05	1.98E-07	2.72E-06	1.24E-05	2.95E-08	1.67E-06	5.69E-06	6.85E-09
1994	420320.1	3734808.89	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.76E-09
1995	420313.37	3734802.18	1.93E-05	8.83E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
1996	420306.63	3734795.46	1.90E-05	8.69E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
1997	420299.9	3734788.75	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
1998	420293.17	3734782.04	1.84E-05	8.41E-05	1.84E-07	2.52E-06	1.15E-05	2.74E-08	1.55E-06	5.28E-06	6.35E-09
1999	420286.43	3734775.32	1.81E-05	8.27E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
2000	420266.23	3734755.18	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.95E-06	5.96E-09
2001	420239.29	3734728.32	1.61E-05	7.34E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.55E-09
2002	420232.56	3734721.61	1.58E-05	7.21E-05	1.58E-07	2.16E-06	9.86E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
2003	420225.83	3734714.9	1.55E-05	7.08E-05	1.55E-07	2.12E-06	9.68E-06	2.30E-08	1.30E-06	4.45E-06	5.35E-09
2004	420219.09	3734708.18	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
2005	420198.89	3734688.04	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
2006	420192.16	3734681.33	1.40E-05	6.42E-05	1.40E-07	1.93E-06	8.78E-06	2.09E-08	1.18E-06	4.04E-06	4.85E-09
2007	420185.42	3734674.61	1.38E-05	6.29E-05	1.38E-07	1.89E-06	8.60E-06	2.05E-08	1.16E-06	3.95E-06	4.76E-09
2008	420176.15	3734658.73	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
2009	420173.61	3734649.57	1.34E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.86E-06	4.65E-09
2010	420171.06	3734640.41	1.34E-05	6.14E-05	1.34E-07	1.84E-06	8.39E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
2011	420168.52	3734631.24	1.34E-05	6.12E-05	1.34E-07	1.84E-06	8.37E-06	1.99E-08	1.13E-06	3.85E-06	4.63E-09
2012	420165.98	3734622.08	1.34E-05	6.11E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
2013	420163.44	3734612.92	1.33E-05	6.08E-05	1.33E-07	1.82E-06	8.32E-06	1.98E-08	1.12E-06	3.82E-06	4.60E-09
2014	420160.9	3734603.75	1.33E-05	6.06E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
2015	420158.36	3734594.59	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.56E-09
2016	420155.82	3734585.43	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
2017	420153.28	3734576.26	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
2018	420150.74	3734567.1	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.15E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2019	420140.57	3734530.44	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
2020	420138.03	3734521.28	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.96E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
2021	420135.49	3734512.12	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
2022	420132.95	3734502.95	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
2023	420130.41	3734493.79	1.26E-05	5.74E-05	1.26E-07	1.72E-06	7.85E-06	1.87E-08	1.06E-06	3.61E-06	4.34E-09
2024	420127.87	3734484.63	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
2025	420125.33	3734475.46	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.79E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
2026	420115.16	3734438.81	1.23E-05	5.61E-05	1.23E-07	1.68E-06	7.67E-06	1.83E-08	1.03E-06	3.53E-06	4.24E-09
2027	420112.62	3734429.65	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
2028	420110.08	3734420.48	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
2029	420107.54	3734411.32	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
2030	420373.98	3734862.6	2.11E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
2031	420382.32	3734867.44	2.15E-05	9.82E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
2032	420390.66	3734872.28	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.24E-08	1.83E-06	6.26E-06	7.53E-09
2033	420399	3734877.12	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.36E-06	7.65E-09
2034	420407.35	3734881.96	2.25E-05	1.03E-04	2.25E-07	3.08E-06	1.41E-05	3.35E-08	1.89E-06	6.46E-06	7.77E-09
2035	420333.6	3734876.96	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.07E-06	6.09E-09
2036	420326.84	3734870.22	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
2037	420320.07	3734863.47	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2038	420313.31	3734856.73	1.73E-05	7.89E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.97E-09
2039	420306.54	3734849.98	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
2040	420299.77	3734843.23	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.84E-09
2041	420293.01	3734836.49	1.67E-05	7.63E-05	1.67E-07	2.29E-06	1.04E-05	2.48E-08	1.40E-06	4.79E-06	5.77E-09
2042	420286.24	3734829.74	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.68E-09

2043	420279.47	3734823	1.62E-05	7.40E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.65E-06	5.59E-09
2044	420272.71	3734816.25	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
2045	420265.94	3734809.5	1.57E-05	7.20E-05	1.57E-07	2.16E-06	9.84E-06	2.34E-08	1.32E-06	4.52E-06	5.44E-09
2046	420245.64	3734789.27	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.43E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
2047	420238.88	3734782.52	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
2048	420232.11	3734775.77	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
2049	420225.34	3734769.03	1.44E-05	6.56E-05	1.44E-07	1.97E-06	8.98E-06	2.14E-08	1.21E-06	4.13E-06	4.96E-09
2050	420218.58	3734762.28	1.41E-05	6.45E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2051	420211.81	3734755.53	1.39E-05	6.35E-05	1.39E-07	1.90E-06	8.68E-06	2.07E-08	1.17E-06	3.99E-06	4.80E-09
2052	420184.75	3734728.55	1.29E-05	5.92E-05	1.29E-07	1.77E-06	8.09E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
2053	420177.98	3734721.8	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2054	420171.21	3734715.06	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
2055	420164.45	3734708.31	1.23E-05	5.61E-05	1.23E-07	1.68E-06	7.67E-06	1.83E-08	1.03E-06	3.52E-06	4.24E-09
2056	420157.68	3734701.57	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.53E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
2057	420150.91	3734694.82	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
2058	420141.6	3734678.87	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2059	420139.04	3734669.66	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.24E-06	1.72E-08	9.74E-07	3.33E-06	4.00E-09
2060	420136.49	3734660.45	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
2061	420133.94	3734651.24	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
2062	420131.38	3734642.04	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.20E-06	1.71E-08	9.69E-07	3.31E-06	3.98E-09
2063	420128.83	3734632.83	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
2064	420126.28	3734623.62	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.16E-06	1.70E-08	9.63E-07	3.29E-06	3.95E-09
2065	420123.72	3734614.41	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2066	420121.17	3734605.21	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.10E-06	1.69E-08	9.56E-07	3.27E-06	3.93E-09
2067	420118.62	3734596	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
2068	420116.06	3734586.79	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.05E-06	1.68E-08	9.49E-07	3.24E-06	3.90E-09
2069	420113.51	3734577.59	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.45E-07	3.23E-06	3.88E-09
2070	420110.96	3734568.38	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.67E-08	9.41E-07	3.21E-06	3.87E-09
2071	420100.75	3734531.55	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
2072	420098.19	3734522.34	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.59E-08	8.96E-07	3.06E-06	3.68E-09
2073	420095.64	3734513.13	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2074	420093.09	3734503.93	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.86E-07	3.03E-06	3.64E-09
2075	420090.53	3734494.72	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.02E-06	3.63E-09
2076	420087.98	3734485.51	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
2077	420085.43	3734476.31	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2078	420082.88	3734467.1	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.77E-07	2.99E-06	3.60E-09
2079	420075.22	3734439.48	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.82E-07	3.01E-06	3.62E-09
2080	420072.66	3734430.27	1.05E-05	4.82E-05	1.05E-07	1.44E-06	6.59E-06	1.57E-08	8.86E-07	3.03E-06	3.64E-09
2081	420070.11	3734421.06	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.57E-06	1.56E-08	8.84E-07	3.02E-06	3.63E-09
2082	420067.56	3734411.85	1.05E-05	4.79E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
2083	420353.9	3734897.2	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
2084	420362.25	3734902.04	1.81E-05	8.28E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
2085	420370.59	3734906.88	1.84E-05	8.39E-05	1.83E-07	2.52E-06	1.15E-05	2.73E-08	1.54E-06	5.28E-06	6.34E-09
2086	420378.93	3734911.72	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
2087	420387.27	3734916.56	1.89E-05	8.62E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.52E-09
2088	420313.45	3734911.48	1.53E-05	6.99E-05	1.53E-07	2.10E-06	9.56E-06	2.28E-08	1.29E-06	4.39E-06	5.28E-09
2089	420306.65	3734904.7	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
2090	420299.86	3734897.93	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.42E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
2091	420293.06	3734891.16	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
2092	420286.27	3734884.38	1.48E-05	6.77E-05	1.48E-07	2.03E-06	9.26E-06	2.21E-08	1.25E-06	4.26E-06	5.12E-09
2093	420279.47	3734877.61	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.17E-06	2.18E-08	1.23E-06	4.21E-06	5.07E-09
2094	420272.68	3734870.83	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.17E-06	5.02E-09
2095	420265.88	3734864.06	1.44E-05	6.56E-05	1.43E-07	1.97E-06	8.97E-06	2.14E-08	1.21E-06	4.12E-06	4.96E-09
2096	420259.09	3734857.28	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
2097	420252.3	3734850.51	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.75E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
2098	420231.91	3734830.19	1.35E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
2099	420225.12	3734823.41	1.33E-05	6.06E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
2100	420218.32	3734816.64	1.31E-05	5.98E-05	1.31E-07	1.79E-06	8.18E-06	1.95E-08	1.10E-06	3.76E-06	4.52E-09
2101	420211.53	3734809.86	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
2102	420204.73	3734803.09	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2103	420197.94	3734796.32	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
2104	420191.14	3734789.54	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09

2105	420184.35	3734782.77	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2106	420177.56	3734775.99	1.19E-05	5.45E-05	1.19E-07	1.63E-06	7.45E-06	1.77E-08	1.00E-06	3.42E-06	4.12E-09
2107	420170.76	3734769.22	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.74E-08	9.86E-07	3.37E-06	4.05E-09
2108	420163.97	3734762.44	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.70E-07	3.31E-06	3.98E-09
2109	420129.99	3734728.57	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
2110	420123.2	3734721.8	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2111	420116.4	3734715.02	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.42E-06	1.53E-08	8.64E-07	2.95E-06	3.55E-09
2112	420107.05	3734699	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.48E-09
2113	420104.48	3734689.76	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
2114	420101.92	3734680.51	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
2115	420099.35	3734671.27	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.50E-08	8.45E-07	2.89E-06	3.47E-09
2116	420096.79	3734662.02	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.46E-09
2117	420094.23	3734652.77	1.00E-05	4.57E-05	1.00E-07	1.37E-06	6.25E-06	1.49E-08	8.42E-07	2.87E-06	3.46E-09
2118	420091.66	3734643.53	9.98E-06	4.56E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
2119	420089.1	3734634.28	9.95E-06	4.55E-05	9.95E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
2120	420086.54	3734625.04	9.92E-06	4.53E-05	9.91E-08	1.36E-06	6.20E-06	1.48E-08	8.34E-07	2.85E-06	3.43E-09
2121	420083.97	3734615.79	9.89E-06	4.52E-05	9.88E-08	1.36E-06	6.18E-06	1.47E-08	8.32E-07	2.84E-06	3.42E-09
2122	420081.41	3734606.55	9.85E-06	4.50E-05	9.84E-08	1.35E-06	6.16E-06	1.47E-08	8.29E-07	2.83E-06	3.40E-09
2123	420078.84	3734597.3	9.82E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2124	420076.28	3734588.05	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
2125	420073.72	3734578.81	9.74E-06	4.46E-05	9.74E-08	1.34E-06	6.09E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
2126	420071.15	3734569.56	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
2127	420060.9	3734532.58	9.32E-06	4.26E-05	9.32E-08	1.28E-06	5.83E-06	1.39E-08	7.84E-07	2.68E-06	3.22E-09
2128	420058.34	3734523.33	9.21E-06	4.21E-05	9.20E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.18E-09
2129	420055.77	3734514.09	9.14E-06	4.18E-05	9.14E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
2130	420053.21	3734504.84	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
2131	420050.64	3734495.6	9.05E-06	4.14E-05	9.05E-08	1.24E-06	5.66E-06	1.35E-08	7.62E-07	2.60E-06	3.13E-09
2132	420048.08	3734486.35	9.02E-06	4.13E-05	9.02E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
2133	420045.52	3734477.1	9.02E-06	4.12E-05	9.01E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
2134	420042.95	3734467.86	9.01E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
2135	420035.26	3734440.12	9.07E-06	4.15E-05	9.06E-08	1.24E-06	5.67E-06	1.35E-08	7.63E-07	2.61E-06	3.13E-09
2136	420032.7	3734430.88	9.10E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.66E-07	2.61E-06	3.14E-09
2137	420030.13	3734421.63	9.13E-06	4.17E-05	9.12E-08	1.25E-06	5.71E-06	1.36E-08	7.68E-07	2.62E-06	3.15E-09
2138	420027.57	3734412.38	9.15E-06	4.18E-05	9.14E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
2139	420306.94	3734959.6	1.34E-05	6.14E-05	1.34E-07	1.84E-06	8.40E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
2140	420300.12	3734952.8	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
2141	420293.3	3734946	1.33E-05	6.08E-05	1.33E-07	1.82E-06	8.32E-06	1.98E-08	1.12E-06	3.82E-06	4.60E-09
2142	420286.48	3734939.2	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
2143	420279.66	3734932.4	1.31E-05	6.00E-05	1.31E-07	1.80E-06	8.21E-06	1.95E-08	1.10E-06	3.77E-06	4.54E-09
2144	420272.84	3734925.6	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
2145	420266.02	3734918.81	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
2146	420259.2	3734912.01	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
2147	420252.38	3734905.21	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2148	420197.82	3734850.81	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
2149	420191	3734844.01	1.14E-05	5.22E-05	1.14E-07	1.57E-06	7.14E-06	1.70E-08	9.61E-07	3.28E-06	3.95E-09
2150	420184.18	3734837.21	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.05E-06	1.68E-08	9.49E-07	3.24E-06	3.90E-09
2151	420177.36	3734830.41	1.11E-05	5.09E-05	1.11E-07	1.52E-06	6.95E-06	1.66E-08	9.36E-07	3.20E-06	3.84E-09
2152	420170.55	3734823.62	1.10E-05	5.01E-05	1.10E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
2153	420163.73	3734816.82	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
2154	420156.91	3734810.02	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.59E-08	8.96E-07	3.06E-06	3.68E-09
2155	420150.09	3734803.22	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.01E-06	3.63E-09
2156	420143.27	3734796.42	1.03E-05	4.73E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.70E-07	2.97E-06	3.57E-09
2157	420136.45	3734789.62	1.02E-05	4.66E-05	1.02E-07	1.40E-06	6.37E-06	1.52E-08	8.57E-07	2.93E-06	3.52E-09
2158	420115.99	3734769.22	9.73E-06	4.45E-05	9.73E-08	1.33E-06	6.08E-06	1.45E-08	8.19E-07	2.80E-06	3.36E-09
2159	420109.17	3734762.42	9.59E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
2160	420102.35	3734755.62	9.44E-06	4.32E-05	9.44E-08	1.29E-06	5.90E-06	1.41E-08	7.94E-07	2.71E-06	3.26E-09
2161	420072.5	3734719.15	8.77E-06	4.01E-05	8.76E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
2162	420069.92	3734709.87	8.74E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2163	420067.35	3734700.59	8.69E-06	3.98E-05	8.69E-08	1.19E-06	5.44E-06	1.29E-08	7.32E-07	2.50E-06	3.00E-09
2164	420064.78	3734691.31	8.71E-06	3.98E-05	8.70E-08	1.19E-06	5.44E-06	1.30E-08	7.33E-07	2.50E-06	3.01E-09
2165	420062.2	3734682.03	8.73E-06	3.99E-05	8.72E-08	1.20E-06	5.46E-06	1.30E-08	7.34E-07	2.51E-06	3.02E-09
2166	420059.63	3734672.75	8.74E-06	4.00E-05	8.74E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.51E-06	3.02E-09

2167	420057.06	3734663.47	8.78E-06	4.01E-05	8.77E-08	1.20E-06	5.49E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
2168	420054.49	3734654.19	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2169	420051.91	3734644.91	8.74E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2170	420049.34	3734635.63	8.71E-06	3.98E-05	8.71E-08	1.19E-06	5.45E-06	1.30E-08	7.33E-07	2.50E-06	3.01E-09
2171	420046.77	3734626.35	8.69E-06	3.97E-05	8.68E-08	1.19E-06	5.43E-06	1.29E-08	7.31E-07	2.50E-06	3.00E-09
2172	420044.19	3734617.07	8.66E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
2173	420041.62	3734607.79	8.63E-06	3.94E-05	8.62E-08	1.18E-06	5.39E-06	1.28E-08	7.26E-07	2.48E-06	2.98E-09
2174	420039.05	3734598.51	8.60E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
2175	420036.47	3734589.23	8.56E-06	3.92E-05	8.56E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2176	420033.9	3734579.95	8.53E-06	3.90E-05	8.53E-08	1.17E-06	5.33E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
2177	420031.33	3734570.67	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.31E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
2178	420021.03	3734533.55	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
2179	420018.46	3734524.27	8.13E-06	3.72E-05	8.13E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
2180	420015.89	3734514.99	8.07E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.79E-07	2.32E-06	2.79E-09
2181	420013.31	3734505.71	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2182	420010.74	3734496.43	8.01E-06	3.66E-05	8.00E-08	1.10E-06	5.01E-06	1.19E-08	6.74E-07	2.30E-06	2.77E-09
2183	420008.17	3734487.15	7.99E-06	3.65E-05	7.98E-08	1.09E-06	4.99E-06	1.19E-08	6.72E-07	2.29E-06	2.76E-09
2184	420005.6	3734477.87	7.97E-06	3.65E-05	7.97E-08	1.09E-06	4.98E-06	1.19E-08	6.71E-07	2.29E-06	2.75E-09
2185	420003.02	3734468.59	7.96E-06	3.64E-05	7.95E-08	1.09E-06	4.98E-06	1.18E-08	6.70E-07	2.29E-06	2.75E-09
2186	419995.3	3734440.75	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
2187	419992.73	3734431.47	8.10E-06	3.70E-05	8.10E-08	1.11E-06	5.06E-06	1.21E-08	6.81E-07	2.33E-06	2.80E-09
2188	419990.16	3734422.19	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
2189	419987.58	3734412.91	8.08E-06	3.69E-05	8.08E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
2190	420313.76	3734966.4	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.43E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
2191	420322.1	3734971.24	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
2192	420330.44	3734976.08	1.38E-05	6.31E-05	1.38E-07	1.89E-06	8.63E-06	2.05E-08	1.16E-06	3.97E-06	4.77E-09
2193	420338.78	3734980.92	1.39E-05	6.38E-05	1.39E-07	1.91E-06	8.72E-06	2.08E-08	1.17E-06	4.01E-06	4.82E-09
2194	420347.13	3734985.76	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.05E-06	4.87E-09
2195	420287.02	3734994.36	1.17E-05	5.37E-05	1.17E-07	1.61E-06	7.34E-06	1.75E-08	9.88E-07	3.37E-06	4.06E-09
2196	420280.36	3734987.72	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.32E-06	1.74E-08	9.85E-07	3.36E-06	4.04E-09
2197	420273.7	3734981.07	1.17E-05	5.33E-05	1.16E-07	1.60E-06	7.29E-06	1.73E-08	9.80E-07	3.35E-06	4.03E-09
2198	420267.04	3734974.43	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2199	420260.37	3734967.79	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
2200	420253.71	3734961.15	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
2201	420247.05	3734954.51	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2202	420240.39	3734947.86	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
2203	420233.73	3734941.22	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
2204	420227.07	3734934.58	1.12E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.21E-06	3.85E-09
2205	420220.4	3734927.94	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.91E-06	1.65E-08	9.30E-07	3.18E-06	3.82E-09
2206	420213.74	3734921.29	1.10E-05	5.01E-05	1.09E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
2207	420207.08	3734914.65	1.08E-05	4.96E-05	1.08E-07	1.49E-06	6.78E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2208	420200.42	3734908.01	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.03E-07	3.08E-06	3.71E-09
2209	420193.76	3734901.37	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.64E-06	1.58E-08	8.93E-07	3.05E-06	3.67E-09
2210	420187.09	3734894.73	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.02E-06	3.63E-09
2211	420180.43	3734888.08	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
2212	420173.77	3734881.44	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.95E-06	3.55E-09
2213	420167.11	3734874.8	1.02E-05	4.65E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
2214	420160.45	3734868.16	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
2215	420153.78	3734861.52	9.90E-06	4.53E-05	9.90E-08	1.36E-06	6.19E-06	1.47E-08	8.33E-07	2.85E-06	3.42E-09
2216	420147.12	3734854.87	9.79E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
2217	420140.46	3734848.23	9.66E-06	4.42E-05	9.66E-08	1.32E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
2218	420093.83	3734801.74	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2219	420087.17	3734795.1	8.67E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
2220	420080.5	3734788.45	8.55E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2221	420073.84	3734781.81	8.44E-06	3.86E-05	8.43E-08	1.16E-06	5.27E-06	1.26E-08	7.10E-07	2.42E-06	2.92E-09
2222	420067.18	3734775.17	8.32E-06	3.81E-05	8.32E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.88E-09
2223	420060.52	3734768.53	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.83E-09
2224	420053.86	3734761.89	8.09E-06	3.70E-05	8.08E-08	1.11E-06	5.06E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
2225	420047.19	3734755.24	7.97E-06	3.65E-05	7.97E-08	1.09E-06	4.98E-06	1.19E-08	6.71E-07	2.29E-06	2.75E-09
2226	420035.5	3734730.47	7.78E-06	3.56E-05	7.77E-08	1.07E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.69E-09
2227	420032.99	3734721.41	7.75E-06	3.54E-05	7.74E-08	1.06E-06	4.84E-06	1.15E-08	6.52E-07	2.23E-06	2.68E-09
2228	420030.48	3734712.34	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09

2229	420027.96	3734703.28	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
2230	420025.45	3734694.21	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2231	420022.94	3734685.14	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2232	420020.42	3734676.08	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2233	420017.91	3734667.01	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
2234	420015.4	3734657.95	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2235	420012.88	3734648.88	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2236	420010.37	3734639.82	7.70E-06	3.52E-05	7.70E-08	1.06E-06	4.81E-06	1.15E-08	6.48E-07	2.21E-06	2.66E-09
2237	420007.85	3734630.75	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2238	420005.34	3734621.69	7.65E-06	3.50E-05	7.65E-08	1.05E-06	4.79E-06	1.14E-08	6.44E-07	2.20E-06	2.64E-09
2239	420002.83	3734612.62	7.63E-06	3.49E-05	7.63E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
2240	420000.31	3734603.56	7.61E-06	3.48E-05	7.60E-08	1.04E-06	4.76E-06	1.13E-08	6.40E-07	2.19E-06	2.63E-09
2241	419997.8	3734594.49	7.58E-06	3.47E-05	7.58E-08	1.04E-06	4.74E-06	1.13E-08	6.38E-07	2.18E-06	2.62E-09
2242	419995.29	3734585.43	7.56E-06	3.46E-05	7.55E-08	1.04E-06	4.73E-06	1.13E-08	6.36E-07	2.17E-06	2.61E-09
2243	419992.77	3734576.36	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
2244	419990.26	3734567.3	7.51E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.32E-07	2.16E-06	2.59E-09
2245	419982.72	3734540.1	7.44E-06	3.40E-05	7.44E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
2246	419980.2	3734531.04	7.42E-06	3.39E-05	7.41E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
2247	419977.69	3734521.97	7.40E-06	3.39E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
2248	419975.18	3734512.9	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
2249	419972.66	3734503.84	7.34E-06	3.35E-05	7.33E-08	1.01E-06	4.59E-06	1.09E-08	6.17E-07	2.11E-06	2.54E-09
2250	419970.15	3734494.77	7.29E-06	3.33E-05	7.28E-08	9.99E-07	4.56E-06	1.08E-08	6.13E-07	2.09E-06	2.52E-09
2251	419967.64	3734485.71	7.26E-06	3.32E-05	7.25E-08	9.95E-07	4.54E-06	1.08E-08	6.11E-07	2.09E-06	2.51E-09
2252	419965.12	3734476.64	7.25E-06	3.32E-05	7.25E-08	9.94E-07	4.54E-06	1.08E-08	6.10E-07	2.08E-06	2.51E-09
2253	419962.61	3734467.58	7.25E-06	3.31E-05	7.24E-08	9.93E-07	4.53E-06	1.08E-08	6.10E-07	2.08E-06	2.50E-09
2254	419955.07	3734440.38	7.25E-06	3.31E-05	7.25E-08	9.94E-07	4.53E-06	1.08E-08	6.10E-07	2.08E-06	2.51E-09
2255	419952.55	3734431.32	7.24E-06	3.31E-05	7.23E-08	9.92E-07	4.52E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
2256	419950.04	3734422.25	7.22E-06	3.30E-05	7.21E-08	9.89E-07	4.51E-06	1.07E-08	6.07E-07	2.07E-06	2.49E-09
2257	419947.53	3734413.19	7.20E-06	3.29E-05	7.20E-08	9.87E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
2258	420293.68	3735001	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
2259	420302.03	3735005.84	1.19E-05	5.45E-05	1.19E-07	1.63E-06	7.45E-06	1.77E-08	1.00E-06	3.42E-06	4.12E-09
2260	420310.37	3735010.68	1.21E-05	5.52E-05	1.21E-07	1.65E-06	7.54E-06	1.80E-08	1.01E-06	3.47E-06	4.17E-09
2261	420318.71	3735015.52	1.22E-05	5.57E-05	1.22E-07	1.67E-06	7.62E-06	1.81E-08	1.03E-06	3.50E-06	4.21E-09
2262	420327.05	3735020.36	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2263	420608.14	3734421.23	6.39E-04	2.92E-03	6.39E-06	8.77E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
2264	420577.71	3734436.86	4.01E-04	1.83E-03	4.00E-06	5.49E-05	2.50E-04	5.96E-07	3.37E-05	1.15E-04	1.38E-07
2265	420538.38	3734411.13	2.20E-04	1.00E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.59E-08
2266	420518.39	3734410.6	1.73E-04	7.91E-04	1.73E-06	2.37E-05	1.08E-04	2.58E-07	1.46E-05	4.97E-05	5.98E-08
2267	420498.39	3734410.06	1.39E-04	6.35E-04	1.39E-06	1.90E-05	8.68E-05	2.07E-07	1.17E-05	3.99E-05	4.80E-08
2268	420478.4	3734409.53	1.13E-04	5.17E-04	1.13E-06	1.55E-05	7.07E-05	1.68E-07	9.52E-06	3.25E-05	3.91E-08
2269	420458.41	3734408.99	9.36E-05	4.28E-04	9.35E-07	1.28E-05	5.85E-05	1.39E-07	7.87E-06	2.69E-05	3.23E-08
2270	420418.42	3734407.92	6.64E-05	3.03E-04	6.63E-07	9.10E-06	4.15E-05	9.88E-08	5.58E-06	1.91E-05	2.29E-08
2271	420398.43	3734407.39	5.68E-05	2.60E-04	5.68E-07	7.79E-06	3.55E-05	8.46E-08	4.78E-06	1.63E-05	1.96E-08
2272	420378.44	3734406.85	4.91E-05	2.25E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
2273	420338.45	3734405.78	3.76E-05	1.72E-04	3.76E-07	5.15E-06	2.35E-05	5.59E-08	3.16E-06	1.08E-05	1.30E-08
2274	420338.01	3734422.22	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
2275	420298.25	3734412.93	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
2276	420297.81	3734429.37	2.90E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2277	420258.26	3734411.86	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
2278	420257.82	3734428.3	2.33E-05	1.07E-04	2.33E-07	3.19E-06	1.46E-05	3.47E-08	1.96E-06	6.69E-06	8.05E-09
2279	420218.27	3734410.79	1.94E-05	8.85E-05	1.94E-07	2.65E-06	1.21E-05	2.88E-08	1.63E-06	5.57E-06	6.69E-09
2280	420217.83	3734427.23	1.91E-05	8.74E-05	1.91E-07	2.62E-06	1.20E-05	2.85E-08	1.61E-06	5.50E-06	6.61E-09
2281	420178.29	3734409.72	1.62E-05	7.39E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.64E-06	5.58E-09
2282	420177.85	3734426.16	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
2283	420138.3	3734408.65	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
2284	420137.86	3734425.09	1.35E-05	6.19E-05	1.35E-07	1.85E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.68E-09
2285	420098.32	3734407.58	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
2286	420097.88	3734424.02	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2287	420058.33	3734406.51	1.02E-05	4.65E-05	1.02E-07	1.39E-06	6.36E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
2288	420057.89	3734422.95	1.01E-05	4.60E-05	1.00E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.47E-09
2289	420018.35	3734405.44	8.92E-06	4.08E-05	8.91E-08	1.22E-06	5.58E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
2290	420017.91	3734421.88	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09

2291	419978.58	3734396.15	7.94E-06	3.63E-05	7.93E-08	1.09E-06	4.96E-06	1.18E-08	6.68E-07	2.28E-06	2.74E-09
2292	419978.14	3734412.59	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
2293	420667.67	3734449.16	4.20E-03	1.92E-02	4.19E-05	5.75E-04	2.62E-03	6.25E-06	3.53E-04	1.21E-03	1.45E-06
2294	420667.67	3734458.78	4.55E-03	2.08E-02	4.55E-05	6.24E-04	2.85E-03	6.78E-06	3.83E-04	1.31E-03	1.57E-06
2295	420667.67	3734468.4	4.88E-03	2.23E-02	4.88E-05	6.69E-04	3.05E-03	7.26E-06	4.11E-04	1.40E-03	1.69E-06
2296	420667.67	3734478.02	5.12E-03	2.34E-02	5.12E-05	7.02E-04	3.20E-03	7.62E-06	4.31E-04	1.47E-03	1.77E-06
2297	420667.67	3734487.64	5.26E-03	2.40E-02	5.25E-05	7.21E-04	3.29E-03	7.83E-06	4.42E-04	1.51E-03	1.82E-06
2298	420667.67	3734497.26	5.25E-03	2.40E-02	5.25E-05	7.20E-04	3.28E-03	7.82E-06	4.42E-04	1.51E-03	1.82E-06
2299	420667.67	3734506.88	5.09E-03	2.33E-02	5.09E-05	6.98E-04	3.18E-03	7.58E-06	4.28E-04	1.46E-03	1.76E-06
2300	420667.67	3734516.5	4.74E-03	2.17E-02	4.74E-05	6.50E-04	2.97E-03	7.06E-06	3.99E-04	1.36E-03	1.64E-06
2301	420667.67	3734526.12	4.19E-03	1.91E-02	4.18E-05	5.74E-04	2.62E-03	6.23E-06	3.52E-04	1.20E-03	1.45E-06
2302	420667.67	3734535.74	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.22E-03	5.29E-06	2.99E-04	1.02E-03	1.23E-06
2303	420657.67	3734468.4	3.19E-03	1.46E-02	3.19E-05	4.37E-04	1.99E-03	4.75E-06	2.68E-04	9.16E-04	1.10E-06
2304	420657.67	3734478.02	3.30E-03	1.51E-02	3.30E-05	4.52E-04	2.06E-03	4.91E-06	2.78E-04	9.49E-04	1.14E-06
2305	420657.67	3734487.64	3.34E-03	1.53E-02	3.34E-05	4.58E-04	2.09E-03	4.97E-06	2.81E-04	9.60E-04	1.15E-06
2306	420657.67	3734497.26	3.30E-03	1.51E-02	3.29E-05	4.52E-04	2.06E-03	4.91E-06	2.77E-04	9.47E-04	1.14E-06
2307	420657.67	3734506.88	3.16E-03	1.44E-02	3.16E-05	4.33E-04	1.97E-03	4.70E-06	2.66E-04	9.08E-04	1.09E-06
2308	420657.67	3734516.5	2.93E-03	1.34E-02	2.93E-05	4.02E-04	1.83E-03	4.36E-06	2.47E-04	8.42E-04	1.01E-06
2309	420657.67	3734526.12	2.62E-03	1.20E-02	2.62E-05	3.59E-04	1.64E-03	3.90E-06	2.21E-04	7.53E-04	9.06E-07
2310	420657.67	3734535.74	2.29E-03	1.05E-02	2.29E-05	3.14E-04	1.43E-03	3.41E-06	1.92E-04	6.57E-04	7.91E-07
2311	420647.67	3734487.64	2.26E-03	1.03E-02	2.26E-05	3.10E-04	1.41E-03	3.36E-06	1.90E-04	6.49E-04	7.81E-07
2312	420647.67	3734497.26	2.21E-03	1.01E-02	2.21E-05	3.03E-04	1.38E-03	3.29E-06	1.86E-04	6.35E-04	7.64E-07
2313	420647.67	3734506.88	2.11E-03	9.65E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.78E-04	6.07E-04	7.29E-07
2314	420647.67	3734516.5	1.97E-03	8.99E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
2315	420647.67	3734526.12	1.79E-03	8.16E-03	1.78E-05	2.45E-04	1.12E-03	2.66E-06	1.50E-04	5.13E-04	6.17E-07
2316	420647.67	3734535.74	1.59E-03	7.28E-03	1.59E-05	2.18E-04	9.96E-04	2.37E-06	1.34E-04	4.58E-04	5.51E-07
2317	420617.67	3734506.88	8.61E-04	3.94E-03	8.60E-06	1.18E-04	5.38E-04	1.28E-06	7.24E-05	2.47E-04	2.97E-07
2318	420617.67	3734535.74	7.16E-04	3.27E-03	7.16E-06	9.81E-05	4.48E-04	1.07E-06	6.02E-05	2.06E-04	2.47E-07
2319	420607.67	3734526.12	6.16E-04	2.82E-03	6.16E-06	8.45E-05	3.85E-04	9.18E-07	5.19E-05	1.77E-04	2.13E-07
2320	420587.67	3734487.64	4.78E-04	2.18E-03	4.77E-06	6.55E-05	2.99E-04	7.11E-07	4.02E-05	1.37E-04	1.65E-07
2321	420587.67	3734535.74	4.00E-04	1.83E-03	3.99E-06	5.48E-05	2.50E-04	5.95E-07	3.36E-05	1.15E-04	1.38E-07
2322	420577.67	3734478.02	4.04E-04	1.85E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.40E-05	1.16E-04	1.39E-07
2323	420577.67	3734506.88	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.62E-07	3.18E-05	1.09E-04	1.31E-07
2324	420557.67	3734487.64	2.86E-04	1.31E-03	2.85E-06	3.91E-05	1.79E-04	4.25E-07	2.40E-05	8.20E-05	9.87E-08
2325	420557.67	3734506.88	2.74E-04	1.25E-03	2.73E-06	3.75E-05	1.71E-04	4.07E-07	2.30E-05	7.86E-05	9.45E-08
2326	420517.67	3734468.4	1.69E-04	7.74E-04	1.69E-06	2.32E-05	1.06E-04	2.52E-07	1.42E-05	4.86E-05	5.85E-08
2327	420517.67	3734478.02	1.67E-04	7.65E-04	1.67E-06	2.29E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.78E-08
2328	420497.67	3734478.02	1.32E-04	6.06E-04	1.32E-06	1.82E-05	8.28E-05	1.97E-07	1.11E-05	3.81E-05	4.58E-08
2329	420497.67	3734506.88	1.27E-04	5.82E-04	1.27E-06	1.74E-05	7.96E-05	1.89E-07	1.07E-05	3.66E-05	4.40E-08
2330	420497.67	3734535.74	1.21E-04	5.52E-04	1.21E-06	1.65E-05	7.54E-05	1.80E-07	1.02E-05	3.47E-05	4.17E-08
2331	420477.67	3734478.02	1.07E-04	4.90E-04	1.07E-06	1.47E-05	6.70E-05	1.60E-07	9.01E-06	3.08E-05	3.70E-08
2332	420477.67	3734516.5	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.57E-06	2.93E-05	3.52E-08
2333	420457.67	3734478.02	8.83E-05	4.04E-04	8.82E-07	1.21E-05	5.52E-05	1.31E-07	7.43E-06	2.54E-05	3.05E-08
2334	420417.67	3734478.02	6.25E-05	2.86E-04	6.24E-07	8.56E-06	3.91E-05	9.30E-08	5.26E-06	1.80E-05	2.16E-08
2335	420417.67	3734535.74	5.87E-05	2.68E-04	5.87E-07	8.04E-06	3.67E-05	8.74E-08	4.94E-06	1.69E-05	2.03E-08
2336	420397.67	3734478.02	5.35E-05	2.45E-04	5.35E-07	7.33E-06	3.34E-05	7.96E-08	4.50E-06	1.54E-05	1.85E-08
2337	420377.67	3734478.02	4.62E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.88E-08	3.89E-06	1.33E-05	1.60E-08
2338	420337.67	3734439.54	3.65E-05	1.67E-04	3.65E-07	5.00E-06	2.28E-05	5.43E-08	3.07E-06	1.05E-05	1.26E-08
2339	420337.67	3734468.4	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.00E-06	1.03E-05	1.23E-08
2340	420337.67	3734478.02	3.54E-05	1.62E-04	3.54E-07	4.86E-06	2.22E-05	5.28E-08	2.98E-06	1.02E-05	1.22E-08
2341	420257.67	3734439.54	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.99E-09
2342	420257.67	3734468.4	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.37E-08	1.91E-06	6.51E-06	7.83E-09
2343	420257.67	3734478.02	2.25E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.35E-08	1.89E-06	6.47E-06	7.78E-09
2344	420217.67	3734439.54	1.90E-05	8.67E-05	1.90E-07	2.60E-06	1.19E-05	2.82E-08	1.60E-06	5.45E-06	6.55E-09
2345	420217.67	3734468.4	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
2346	420217.67	3734478.02	1.85E-05	8.45E-05	1.85E-07	2.53E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
2347	420177.67	3734439.54	1.58E-05	7.24E-05	1.58E-07	2.17E-06	9.90E-06	2.36E-08	1.33E-06	4.55E-06	5.47E-09
2348	420177.67	3734468.4	1.55E-05	7.11E-05	1.55E-07	2.13E-06	9.72E-06	2.31E-08	1.31E-06	4.47E-06	5.37E-09
2349	420177.67	3734478.02	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
2350	420137.67	3734439.54	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.38E-06	2.00E-08	1.13E-06	3.85E-06	4.63E-09
2351	420137.67	3734468.4	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
2352	420137.67	3734478.02	1.31E-05	5.98E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.76E-06	4.52E-09

2353	420137.67	3734487.64	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
2354	420097.67	3734439.54	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
2355	420097.67	3734468.4	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.93E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
2356	420097.67	3734478.02	1.10E-05	5.02E-05	1.10E-07	1.50E-06	6.86E-06	1.63E-08	9.23E-07	3.15E-06	3.79E-09
2357	420097.67	3734487.64	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
2358	420057.67	3734439.54	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
2359	420057.67	3734468.4	9.45E-06	4.32E-05	9.44E-08	1.30E-06	5.91E-06	1.41E-08	7.95E-07	2.72E-06	3.27E-09
2360	420057.67	3734478.02	9.38E-06	4.29E-05	9.37E-08	1.29E-06	5.86E-06	1.40E-08	7.89E-07	2.69E-06	3.24E-09
2361	420057.67	3734487.64	9.30E-06	4.25E-05	9.30E-08	1.28E-06	5.82E-06	1.38E-08	7.83E-07	2.67E-06	3.22E-09
2362	420017.67	3734439.54	8.59E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
2363	420017.67	3734468.4	8.32E-06	3.80E-05	8.31E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.87E-09
2364	420017.67	3734478.02	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
2365	420017.67	3734487.64	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.84E-09
2366	419977.8	3734430.18	7.78E-06	3.56E-05	7.78E-08	1.07E-06	4.86E-06	1.16E-08	6.55E-07	2.24E-06	2.69E-09
2367	419977.67	3734439.54	7.70E-06	3.52E-05	7.70E-08	1.06E-06	4.82E-06	1.15E-08	6.48E-07	2.21E-06	2.66E-09
2368	419977.67	3734468.4	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
2369	419977.67	3734478.02	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
2370	419977.67	3734487.64	7.41E-06	3.39E-05	7.40E-08	1.02E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
2371	420671.09	3734572.86	2.01E-03	9.17E-03	2.00E-05	2.75E-04	1.25E-03	2.98E-06	1.69E-04	5.76E-04	6.93E-07
2372	420656.76	3734567.11	1.34E-03	6.11E-03	1.34E-05	1.83E-04	8.35E-04	1.99E-06	1.12E-04	3.84E-04	4.62E-07
2373	420705.81	3734575.34	8.58E-03	3.92E-02	8.58E-05	1.18E-03	5.37E-03	1.28E-05	7.22E-04	2.47E-03	2.97E-06
2374	420715	3734575.2	1.11E-02	5.06E-02	1.11E-04	1.52E-03	6.92E-03	1.65E-05	9.31E-04	3.18E-03	3.82E-06
2375	420724.18	3734575.07	1.29E-02	5.90E-02	1.29E-04	1.77E-03	8.07E-03	1.92E-05	1.09E-03	3.71E-03	4.46E-06
2376	420733.37	3734574.94	1.38E-02	6.33E-02	1.38E-04	1.90E-03	8.66E-03	2.06E-05	1.16E-03	3.98E-03	4.78E-06
2377	420671.23	3734582.86	1.68E-03	7.66E-03	1.67E-05	2.30E-04	1.05E-03	2.49E-06	1.41E-04	4.82E-04	5.79E-07
2378	420656.9	3734577.1	1.15E-03	5.26E-03	1.15E-05	1.58E-04	7.19E-04	1.71E-06	9.67E-05	3.30E-04	3.97E-07
2379	420639.59	3734564.23	8.83E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.32E-06	7.43E-05	2.54E-04	3.05E-07
2380	420705.96	3734585.33	6.15E-03	2.81E-02	6.14E-05	8.42E-04	3.84E-03	9.15E-06	5.17E-04	1.77E-03	2.12E-06
2381	420715.14	3734585.2	7.89E-03	3.61E-02	7.89E-05	1.08E-03	4.93E-03	1.17E-05	6.64E-04	2.27E-03	2.73E-06
2382	420724.33	3734585.07	9.37E-03	4.29E-02	9.37E-05	1.28E-03	5.86E-03	1.40E-05	7.89E-04	2.69E-03	3.24E-06
2383	420733.52	3734584.93	1.04E-02	4.74E-02	1.04E-04	1.42E-03	6.48E-03	1.54E-05	8.72E-04	2.98E-03	3.58E-06
2384	420671.38	3734592.86	1.42E-03	6.49E-03	1.42E-05	1.95E-04	8.87E-04	2.11E-06	1.19E-04	4.08E-04	4.90E-07
2385	420657.05	3734587.1	9.98E-04	4.56E-03	9.98E-06	1.37E-04	6.24E-04	1.49E-06	8.40E-05	2.87E-04	3.45E-07
2386	420642.72	3734581.35	7.63E-04	3.49E-03	7.62E-06	1.05E-04	4.77E-04	1.14E-06	6.42E-05	2.19E-04	2.64E-07
2387	420632.57	3734571.35	6.95E-04	3.18E-03	6.95E-06	9.53E-05	4.35E-04	1.03E-06	5.85E-05	2.00E-04	2.40E-07
2388	420696.91	3734595.47	3.41E-03	1.56E-02	3.41E-05	4.67E-04	2.13E-03	5.08E-06	2.87E-04	9.80E-04	1.18E-06
2389	420706.1	3734595.33	4.60E-03	2.10E-02	4.60E-05	6.30E-04	2.88E-03	6.85E-06	3.87E-04	1.32E-03	1.59E-06
2390	420715.29	3734595.2	5.86E-03	2.68E-02	5.86E-05	8.04E-04	3.67E-03	8.73E-06	4.93E-04	1.69E-03	2.03E-06
2391	420724.47	3734595.07	7.02E-03	3.21E-02	7.02E-05	9.62E-04	4.39E-03	1.04E-05	5.91E-04	2.02E-03	2.43E-06
2392	420645.25	3734592.31	7.03E-04	3.21E-03	7.02E-06	9.63E-05	4.39E-04	1.05E-06	5.91E-05	2.02E-04	2.43E-07
2393	420625.06	3734577.29	5.64E-04	2.58E-03	5.64E-06	7.73E-05	3.52E-04	8.39E-07	4.74E-05	1.62E-04	1.95E-07
2394	420687.87	3734605.6	1.99E-03	9.09E-03	1.99E-05	2.72E-04	1.24E-03	2.96E-06	1.67E-04	5.71E-04	6.87E-07
2395	420697.06	3734605.47	2.70E-03	1.23E-02	2.70E-05	3.70E-04	1.69E-03	4.02E-06	2.27E-04	7.75E-04	9.32E-07
2396	420706.25	3734605.33	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.23E-03	5.30E-06	3.00E-04	1.02E-03	1.23E-06
2397	420715.43	3734605.2	4.50E-03	2.06E-02	4.50E-05	6.17E-04	2.81E-03	6.70E-06	3.79E-04	1.29E-03	1.55E-06
2398	420724.62	3734605.07	5.40E-03	2.47E-02	5.40E-05	7.40E-04	3.38E-03	8.04E-06	4.54E-04	1.55E-03	1.87E-06
2399	420637.89	3734599.29	5.59E-04	2.56E-03	5.59E-06	7.67E-05	3.50E-04	8.33E-07	4.71E-05	1.61E-04	1.93E-07
2400	420618.11	3734584.58	4.65E-04	2.12E-03	4.64E-06	6.37E-05	2.91E-04	6.92E-07	3.91E-05	1.34E-04	1.61E-07
2401	420611.29	3734568.3	4.82E-04	2.20E-03	4.81E-06	6.60E-05	3.01E-04	7.17E-07	4.05E-05	1.38E-04	1.66E-07
2402	420688.02	3734615.6	1.65E-03	7.55E-03	1.65E-05	2.26E-04	1.03E-03	2.46E-06	1.39E-04	4.75E-04	5.71E-07
2403	420697.2	3734615.46	2.19E-03	1.00E-02	2.19E-05	3.00E-04	1.37E-03	3.26E-06	1.84E-04	6.28E-04	7.56E-07
2404	420706.39	3734615.33	2.83E-03	1.30E-02	2.83E-05	3.88E-04	1.77E-03	4.22E-06	2.38E-04	8.14E-04	9.79E-07
2405	420715.58	3734615.2	3.55E-03	1.62E-02	3.54E-05	4.86E-04	2.22E-03	5.28E-06	2.98E-04	1.02E-03	1.23E-06
2406	420724.76	3734615.06	4.25E-03	1.94E-02	4.25E-05	5.83E-04	2.66E-03	6.33E-06	3.58E-04	1.22E-03	1.47E-06
2407	420638.67	3734609.55	5.07E-04	2.32E-03	5.06E-06	6.95E-05	3.17E-04	7.54E-07	4.26E-05	1.46E-04	1.75E-07
2408	420622.55	3734603.08	4.16E-04	1.90E-03	4.16E-06	5.70E-05	2.60E-04	6.19E-07	3.50E-05	1.19E-04	1.44E-07
2409	420611.14	3734591.83	3.89E-04	1.78E-03	3.89E-06	5.34E-05	2.43E-04	5.80E-07	3.28E-05	1.12E-04	1.35E-07
2410	420604.43	3734575.8	4.03E-04	1.84E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.39E-05	1.16E-04	1.39E-07
2411	420688.16	3734625.6	1.39E-03	6.37E-03	1.39E-05	1.91E-04	8.72E-04	2.08E-06	1.17E-04	4.01E-04	4.82E-07
2412	420697.35	3734625.46	1.81E-03	8.27E-03	1.81E-05	2.48E-04	1.13E-03	2.69E-06	1.52E-04	5.20E-04	6.25E-07
2413	420706.54	3734625.33	2.30E-03	1.05E-02	2.30E-05	3.16E-04	1.44E-03	3.43E-06	1.94E-04	6.62E-04	7.96E-07
2414	420715.72	3734625.2	2.85E-03	1.30E-02	2.85E-05	3.91E-04	1.78E-03	4.25E-06	2.40E-04	8.20E-04	9.86E-07

2415	420724.91	3734625.06	3.41E-03	1.56E-02	3.41E-05	4.68E-04	2.13E-03	5.08E-06	2.87E-04	9.81E-04	1.18E-06
2416	420639.32	3734619.75	4.60E-04	2.10E-03	4.60E-06	6.31E-05	2.88E-04	6.85E-07	3.87E-05	1.32E-04	1.59E-07
2417	420623.4	3734613.35	3.81E-04	1.74E-03	3.81E-06	5.22E-05	2.38E-04	5.67E-07	3.21E-05	1.09E-04	1.32E-07
2418	420604.16	3734599.05	3.31E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
2419	420597.54	3734583.22	3.43E-04	1.57E-03	3.42E-06	4.70E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
2420	420688.31	3734635.6	1.19E-03	5.44E-03	1.19E-05	1.63E-04	7.44E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
2421	420697.49	3734635.46	1.52E-03	6.93E-03	1.52E-05	2.08E-04	9.48E-04	2.26E-06	1.28E-04	4.36E-04	5.24E-07
2422	420706.68	3734635.33	1.91E-03	8.71E-03	1.90E-05	2.61E-04	1.19E-03	2.84E-06	1.60E-04	5.47E-04	6.58E-07
2423	420715.87	3734635.2	2.34E-03	1.07E-02	2.34E-05	3.21E-04	1.46E-03	3.48E-06	1.97E-04	6.72E-04	8.08E-07
2424	420725.05	3734635.06	2.79E-03	1.27E-02	2.79E-05	3.82E-04	1.74E-03	4.15E-06	2.35E-04	8.01E-04	9.64E-07
2425	420671.6	3734652.59	6.25E-04	2.86E-03	6.24E-06	8.56E-05	3.91E-04	9.30E-07	5.26E-05	1.80E-04	2.16E-07
2426	420640.33	3734640.04	3.82E-04	1.75E-03	3.82E-06	5.24E-05	2.39E-04	5.69E-07	3.22E-05	1.10E-04	1.32E-07
2427	420624.7	3734633.76	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.70E-05	9.21E-05	1.11E-07
2428	420609.07	3734627.48	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.33E-05	7.94E-05	9.55E-08
2429	420590.18	3734613.44	2.46E-04	1.13E-03	2.46E-06	3.38E-05	1.54E-04	3.67E-07	2.07E-05	7.08E-05	8.51E-08
2430	420583.68	3734597.9	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
2431	420573.93	3734574.59	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.89E-07	2.20E-05	7.50E-05	9.02E-08
2432	420688.6	3734655.59	8.94E-04	4.09E-03	8.93E-06	1.23E-04	5.59E-04	1.33E-06	7.52E-05	2.57E-04	3.09E-07
2433	420697.78	3734655.46	1.11E-03	5.06E-03	1.11E-05	1.52E-04	6.92E-04	1.65E-06	9.32E-05	3.18E-04	3.83E-07
2434	420706.97	3734655.33	1.36E-03	6.21E-03	1.36E-05	1.86E-04	8.50E-04	2.02E-06	1.14E-04	3.90E-04	4.70E-07
2435	420716.16	3734655.19	1.64E-03	7.50E-03	1.64E-05	2.25E-04	1.03E-03	2.44E-06	1.38E-04	4.72E-04	5.67E-07
2436	420671.34	3734672.37	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
2437	420654.63	3734665.66	3.84E-04	1.76E-03	3.84E-06	5.26E-05	2.40E-04	5.72E-07	3.23E-05	1.10E-04	1.33E-07
2438	420646.27	3734662.3	3.42E-04	1.57E-03	3.42E-06	4.69E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
2439	420629.55	3734655.59	2.82E-04	1.29E-03	2.82E-06	3.87E-05	1.76E-04	4.20E-07	2.37E-05	8.10E-05	9.75E-08
2440	420612.83	3734648.88	2.42E-04	1.11E-03	2.42E-06	3.31E-05	1.51E-04	3.60E-07	2.03E-05	6.94E-05	8.35E-08
2441	420604.47	3734645.52	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.36E-07	1.90E-05	6.49E-05	7.80E-08
2442	420587.75	3734638.81	1.99E-04	9.08E-04	1.99E-06	2.72E-05	1.24E-04	2.96E-07	1.67E-05	5.71E-05	6.86E-08
2443	420575.92	3734627.14	1.90E-04	8.71E-04	1.90E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.47E-05	6.58E-08
2444	420572.44	3734618.83	1.94E-04	8.87E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
2445	420679.7	3734675.73	5.70E-04	2.60E-03	5.69E-06	7.81E-05	3.56E-04	8.48E-07	4.79E-05	1.64E-04	1.97E-07
2446	420688.89	3734675.59	6.92E-04	3.16E-03	6.92E-06	9.48E-05	4.33E-04	1.03E-06	5.82E-05	1.99E-04	2.39E-07
2447	420698.08	3734675.46	8.39E-04	3.84E-03	8.39E-06	1.15E-04	5.25E-04	1.25E-06	7.06E-05	2.41E-04	2.90E-07
2448	420707.26	3734675.33	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.51E-06	8.51E-05	2.91E-04	3.49E-07
2449	420716.45	3734675.19	1.20E-03	5.50E-03	1.20E-05	1.65E-04	7.53E-04	1.79E-06	1.01E-04	3.46E-04	4.16E-07
2450	420671.8	3734692.44	4.08E-04	1.86E-03	4.08E-06	5.59E-05	2.55E-04	6.07E-07	3.43E-05	1.17E-04	1.41E-07
2451	420655.43	3734685.86	3.23E-04	1.48E-03	3.23E-06	4.43E-05	2.02E-04	4.81E-07	2.72E-05	9.29E-05	1.12E-07
2452	420639.05	3734679.28	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
2453	420622.67	3734672.71	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.34E-07	1.89E-05	6.44E-05	7.74E-08
2454	420606.3	3734666.13	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
2455	420589.92	3734659.56	1.75E-04	7.99E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.02E-05	6.04E-08
2456	420573.55	3734652.98	1.57E-04	7.16E-04	1.57E-06	2.15E-05	9.79E-05	2.33E-07	1.32E-05	4.50E-05	5.41E-08
2457	420531.29	3734568.3	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.93E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
2458	420689.18	3734695.59	5.49E-04	2.51E-03	5.49E-06	7.53E-05	3.43E-04	8.17E-07	4.62E-05	1.58E-04	1.90E-07
2459	420698.37	3734695.46	6.55E-04	2.99E-03	6.54E-06	8.97E-05	4.09E-04	9.74E-07	5.51E-05	1.88E-04	2.26E-07
2460	420707.55	3734695.32	7.76E-04	3.55E-03	7.76E-06	1.06E-04	4.85E-04	1.16E-06	6.53E-05	2.23E-04	2.68E-07
2461	420735.11	3734694.92	1.21E-03	5.54E-03	1.21E-05	1.66E-04	7.58E-04	1.80E-06	1.02E-04	3.48E-04	4.19E-07
2462	420672.22	3734712.48	3.39E-04	1.55E-03	3.39E-06	4.65E-05	2.12E-04	5.05E-07	2.85E-05	9.74E-05	1.17E-07
2463	420656.1	3734706.01	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.09E-07	2.31E-05	7.89E-05	9.49E-08
2464	420639.98	3734699.54	2.27E-04	1.04E-03	2.27E-06	3.12E-05	1.42E-04	3.39E-07	1.91E-05	6.54E-05	7.86E-08
2465	420623.86	3734693.07	1.94E-04	8.89E-04	1.94E-06	2.67E-05	1.22E-04	2.89E-07	1.64E-05	5.59E-05	6.72E-08
2466	420607.74	3734686.59	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
2467	420591.62	3734680.12	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.61E-05	2.29E-07	1.29E-05	4.42E-05	5.31E-08
2468	420575.5	3734673.65	1.39E-04	6.37E-04	1.39E-06	1.91E-05	8.70E-05	2.07E-07	1.17E-05	4.00E-05	4.81E-08
2469	420547.96	3734655.93	1.23E-04	5.60E-04	1.23E-06	1.68E-05	7.66E-05	1.82E-07	1.03E-05	3.52E-05	4.24E-08
2470	420689.47	3734715.59	4.44E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.61E-07	3.74E-05	1.28E-04	1.54E-07
2471	420698.66	3734715.45	5.22E-04	2.39E-03	5.22E-06	7.16E-05	3.26E-04	7.77E-07	4.39E-05	1.50E-04	1.80E-07
2472	420707.84	3734715.32	6.11E-04	2.79E-03	6.11E-06	8.38E-05	3.82E-04	9.10E-07	5.14E-05	1.76E-04	2.11E-07
2473	420735.4	3734714.92	9.32E-04	4.26E-03	9.31E-06	1.28E-04	5.83E-04	1.39E-06	7.84E-05	2.68E-04	3.22E-07
2474	420663.71	3734728.95	2.56E-04	1.17E-03	2.56E-06	3.51E-05	1.60E-04	3.81E-07	2.15E-05	7.35E-05	8.84E-08
2475	420655.29	3734725.57	2.32E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.45E-07	1.95E-05	6.65E-05	8.00E-08
2476	420646.86	3734722.18	2.11E-04	9.63E-04	2.10E-06	2.89E-05	1.32E-04	3.13E-07	1.77E-05	6.05E-05	7.28E-08

2477	420638.43	3734718.8	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.21E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
2478	420630	3734715.41	1.78E-04	8.13E-04	1.78E-06	2.44E-05	1.11E-04	2.65E-07	1.50E-05	5.11E-05	6.15E-08
2479	420621.57	3734712.03	1.65E-04	7.56E-04	1.65E-06	2.27E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.72E-08
2480	420613.14	3734708.64	1.55E-04	7.08E-04	1.55E-06	2.12E-05	9.69E-05	2.31E-07	1.30E-05	4.45E-05	5.35E-08
2481	420604.71	3734705.26	1.46E-04	6.68E-04	1.46E-06	2.00E-05	9.13E-05	2.17E-07	1.23E-05	4.20E-05	5.05E-08
2482	420596.28	3734701.87	1.38E-04	6.32E-04	1.38E-06	1.90E-05	8.65E-05	2.06E-07	1.16E-05	3.97E-05	4.78E-08
2483	420587.85	3734698.49	1.32E-04	6.01E-04	1.31E-06	1.80E-05	8.22E-05	1.96E-07	1.11E-05	3.78E-05	4.54E-08
2484	420579.42	3734695.11	1.25E-04	5.73E-04	1.25E-06	1.72E-05	7.84E-05	1.87E-07	1.05E-05	3.60E-05	4.33E-08
2485	420554.14	3734684.95	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.83E-05	1.63E-07	9.19E-06	3.14E-05	3.78E-08
2486	420545.71	3734681.57	1.04E-04	4.77E-04	1.04E-06	1.43E-05	6.53E-05	1.55E-07	8.78E-06	3.00E-05	3.61E-08
2487	420519.75	3734636.29	1.06E-04	4.84E-04	1.06E-06	1.45E-05	6.62E-05	1.58E-07	8.91E-06	3.04E-05	3.66E-08
2488	420502.21	3734594.39	1.07E-04	4.89E-04	1.07E-06	1.47E-05	6.68E-05	1.59E-07	8.99E-06	3.07E-05	3.69E-08
2489	420735.69	3734734.92	7.33E-04	3.35E-03	7.33E-06	1.01E-04	4.58E-04	1.09E-06	6.17E-05	2.11E-04	2.53E-07
2490	420606.2	3734725.74	1.29E-04	5.92E-04	1.29E-06	1.77E-05	8.09E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
2491	420589.61	3734719.08	1.17E-04	5.35E-04	1.17E-06	1.60E-05	7.32E-05	1.74E-07	9.85E-06	3.36E-05	4.04E-08
2492	420573.02	3734712.41	1.07E-04	4.90E-04	1.07E-06	1.47E-05	6.70E-05	1.60E-07	9.02E-06	3.08E-05	3.70E-08
2493	420539.83	3734699.09	9.09E-05	4.16E-04	9.08E-07	1.25E-05	5.68E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
2494	420519.79	3734684.18	8.49E-05	3.88E-04	8.49E-07	1.16E-05	5.31E-05	1.26E-07	7.15E-06	2.44E-05	2.94E-08
2495	420468.02	3734560.48	8.58E-05	3.92E-04	8.58E-07	1.18E-05	5.37E-05	1.28E-07	7.22E-06	2.47E-05	2.97E-08
2496	420735.98	3734754.92	5.88E-04	2.69E-03	5.88E-06	8.07E-05	3.68E-04	8.76E-07	4.95E-05	1.69E-04	2.03E-07
2497	420541.95	3734719.82	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
2498	420525.58	3734713.25	7.68E-05	3.51E-04	7.67E-07	1.05E-05	4.80E-05	1.14E-07	6.46E-06	2.21E-05	2.65E-08
2499	420502.39	3734690.39	7.30E-05	3.34E-04	7.30E-07	1.00E-05	4.57E-05	1.09E-07	6.15E-06	2.10E-05	2.52E-08
2500	420495.58	3734674.11	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.57E-08
2501	420690.34	3734775.58	2.35E-04	1.08E-03	2.35E-06	3.23E-05	1.47E-04	3.50E-07	1.98E-05	6.76E-05	8.13E-08
2502	420699.53	3734775.45	2.72E-04	1.24E-03	2.72E-06	3.73E-05	1.70E-04	4.05E-07	2.29E-05	7.82E-05	9.40E-08
2503	420708.71	3734775.31	3.14E-04	1.44E-03	3.14E-06	4.31E-05	1.97E-04	4.68E-07	2.64E-05	9.03E-05	1.09E-07
2504	420736.27	3734774.91	4.74E-04	2.17E-03	4.74E-06	6.50E-05	2.97E-04	7.06E-07	3.99E-05	1.36E-04	1.64E-07
2505	420672.98	3734792.31	1.66E-04	7.58E-04	1.66E-06	2.27E-05	1.04E-04	2.47E-07	1.40E-05	4.76E-05	5.73E-08
2506	420596.77	3734761.71	9.60E-05	4.39E-04	9.60E-07	1.32E-05	6.00E-05	1.43E-07	8.08E-06	2.76E-05	3.32E-08
2507	420588.3	3734758.31	9.17E-05	4.19E-04	9.17E-07	1.26E-05	5.73E-05	1.37E-07	7.71E-06	2.63E-05	3.17E-08
2508	420579.83	3734754.91	8.79E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.53E-05	3.04E-08
2509	420571.37	3734751.52	8.45E-05	3.86E-04	8.44E-07	1.16E-05	5.28E-05	1.26E-07	7.11E-06	2.43E-05	2.92E-08
2510	420520.56	3734731.12	6.82E-05	3.12E-04	6.81E-07	9.35E-06	4.26E-05	1.01E-07	5.74E-06	1.96E-05	2.36E-08
2511	420512.1	3734727.72	6.58E-05	3.01E-04	6.57E-07	9.02E-06	4.11E-05	9.79E-08	5.53E-06	1.89E-05	2.27E-08
2512	420503.63	3734724.32	6.34E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.44E-08	5.34E-06	1.82E-05	2.19E-08
2513	420491.64	3734712.5	6.20E-05	2.83E-04	6.20E-07	8.50E-06	3.88E-05	9.23E-08	5.22E-06	1.78E-05	2.14E-08
2514	420477.55	3734678.83	6.44E-05	2.94E-04	6.44E-07	8.83E-06	4.03E-05	9.59E-08	5.42E-06	1.85E-05	2.23E-08
2515	420470.5	3734662	6.50E-05	2.97E-04	6.50E-07	8.92E-06	4.07E-05	9.68E-08	5.47E-06	1.87E-05	2.25E-08
2516	420459.94	3734636.75	6.54E-05	2.99E-04	6.53E-07	8.96E-06	4.09E-05	9.73E-08	5.50E-06	1.88E-05	2.26E-08
2517	420438.8	3734586.24	6.36E-05	2.91E-04	6.36E-07	8.72E-06	3.98E-05	9.47E-08	5.35E-06	1.83E-05	2.20E-08
2518	420681.44	3734795.71	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.16E-05	6.21E-08
2519	420690.63	3734795.58	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
2520	420699.82	3734795.45	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
2521	420709	3734795.31	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.65E-04	3.94E-07	2.23E-05	7.61E-05	9.15E-08
2522	420736.56	3734794.91	3.92E-04	1.79E-03	3.92E-06	5.38E-05	2.45E-04	5.84E-07	3.30E-05	1.13E-04	1.35E-07
2523	420673.37	3734812.35	1.46E-04	6.70E-04	1.46E-06	2.01E-05	9.16E-05	2.18E-07	1.23E-05	4.21E-05	5.06E-08
2524	420598.15	3734782.15	8.65E-05	3.95E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
2525	420589.79	3734778.79	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
2526	420573.07	3734772.08	7.63E-05	3.49E-04	7.63E-07	1.05E-05	4.77E-05	1.14E-07	6.42E-06	2.19E-05	2.64E-08
2527	420556.35	3734765.37	7.12E-05	3.25E-04	7.11E-07	9.76E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2528	420477.64	3734726.85	5.38E-05	2.46E-04	5.37E-07	7.37E-06	3.36E-05	8.00E-08	4.52E-06	1.54E-05	1.86E-08
2529	420470.69	3734710.23	5.49E-05	2.51E-04	5.49E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
2530	420463.74	3734693.62	5.57E-05	2.55E-04	5.57E-07	7.63E-06	3.48E-05	8.29E-08	4.69E-06	1.60E-05	1.92E-08
2531	420435.92	3734627.14	5.64E-05	2.58E-04	5.64E-07	7.73E-06	3.53E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
2532	420681.73	3734815.71	1.57E-04	7.19E-04	1.57E-06	2.16E-05	9.83E-05	2.34E-07	1.32E-05	4.52E-05	5.43E-08
2533	420690.92	3734815.58	1.75E-04	8.00E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.03E-05	6.05E-08
2534	420700.11	3734815.44	1.98E-04	9.05E-04	1.98E-06	2.71E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.84E-08
2535	420709.29	3734815.31	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.44E-05	7.74E-08
2536	420736.85	3734814.91	3.27E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.38E-05	1.13E-07
2537	420673.76	3734832.39	1.30E-04	5.92E-04	1.29E-06	1.78E-05	8.10E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
2538	420657.22	3734825.75	1.15E-04	5.24E-04	1.14E-06	1.57E-05	7.16E-05	1.71E-07	9.64E-06	3.29E-05	3.96E-08

2539	420607.62	3734805.83	8.22E-05	3.76E-04	8.21E-07	1.13E-05	5.14E-05	1.22E-07	6.91E-06	2.36E-05	2.84E-08
2540	420591.09	3734799.2	7.49E-05	3.43E-04	7.49E-07	1.03E-05	4.68E-05	1.12E-07	6.30E-06	2.15E-05	2.59E-08
2541	420574.55	3734792.56	6.92E-05	3.17E-04	6.92E-07	9.49E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
2542	420558.02	3734785.92	6.46E-05	2.96E-04	6.46E-07	8.86E-06	4.04E-05	9.62E-08	5.44E-06	1.86E-05	2.23E-08
2543	420541.49	3734779.28	6.07E-05	2.78E-04	6.07E-07	8.33E-06	3.80E-05	9.04E-08	5.11E-06	1.75E-05	2.10E-08
2544	420508.42	3734766	5.41E-05	2.47E-04	5.41E-07	7.42E-06	3.38E-05	8.05E-08	4.55E-06	1.55E-05	1.87E-08
2545	420491.88	3734759.36	5.10E-05	2.33E-04	5.10E-07	6.99E-06	3.19E-05	7.59E-08	4.29E-06	1.47E-05	1.76E-08
2546	420475.35	3734752.73	4.80E-05	2.19E-04	4.79E-07	6.57E-06	3.00E-05	7.14E-08	4.03E-06	1.38E-05	1.66E-08
2547	420449.89	3734708.32	4.86E-05	2.22E-04	4.86E-07	6.66E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
2548	420443.01	3734691.88	4.89E-05	2.24E-04	4.89E-07	6.70E-06	3.06E-05	7.28E-08	4.11E-06	1.41E-05	1.69E-08
2549	420436.13	3734675.44	4.91E-05	2.25E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
2550	420408.62	3734609.7	4.85E-05	2.22E-04	4.84E-07	6.64E-06	3.03E-05	7.21E-08	4.08E-06	1.39E-05	1.67E-08
2551	420401.74	3734593.27	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
2552	420394.86	3734576.83	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
2553	420691.21	3734835.58	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.28E-05	4.39E-05	5.28E-08
2554	420700.4	3734835.44	1.71E-04	7.82E-04	1.71E-06	2.34E-05	1.07E-04	2.55E-07	1.44E-05	4.91E-05	5.91E-08
2555	420709.58	3734835.31	1.92E-04	8.76E-04	1.91E-06	2.63E-05	1.20E-04	2.85E-07	1.61E-05	5.50E-05	6.62E-08
2556	420737.14	3734834.91	2.74E-04	1.25E-03	2.73E-06	3.75E-05	1.71E-04	4.07E-07	2.30E-05	7.86E-05	9.45E-08
2557	420674.2	3734872.33	1.00E-04	4.59E-04	1.00E-06	1.38E-05	6.28E-05	1.49E-07	8.45E-06	2.88E-05	3.47E-08
2558	420665.8	3734868.96	9.47E-05	4.33E-04	9.46E-07	1.30E-05	5.92E-05	1.41E-07	7.97E-06	2.72E-05	3.27E-08
2559	420657.4	3734865.59	8.97E-05	4.10E-04	8.97E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
2560	420649	3734862.21	8.56E-05	3.91E-04	8.55E-07	1.17E-05	5.35E-05	1.27E-07	7.20E-06	2.46E-05	2.96E-08
2561	420640.6	3734858.84	8.19E-05	3.74E-04	8.18E-07	1.12E-05	5.12E-05	1.22E-07	6.89E-06	2.35E-05	2.83E-08
2562	420607	3734845.35	6.70E-05	3.06E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
2563	420598.6	3734841.98	6.40E-05	2.93E-04	6.40E-07	8.77E-06	4.00E-05	9.53E-08	5.39E-06	1.84E-05	2.21E-08
2564	420590.2	3734838.6	6.13E-05	2.80E-04	6.13E-07	8.40E-06	3.83E-05	9.13E-08	5.16E-06	1.76E-05	2.12E-08
2565	420581.8	3734835.23	5.89E-05	2.69E-04	5.89E-07	8.07E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
2566	420573.4	3734831.86	5.68E-05	2.59E-04	5.67E-07	7.78E-06	3.55E-05	8.45E-08	4.77E-06	1.63E-05	1.96E-08
2567	420565	3734828.49	5.48E-05	2.51E-04	5.48E-07	7.51E-06	3.43E-05	8.16E-08	4.61E-06	1.58E-05	1.89E-08
2568	420556.6	3734825.11	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
2569	420539.8	3734818.37	5.00E-05	2.28E-04	4.99E-07	6.85E-06	3.12E-05	7.44E-08	4.20E-06	1.44E-05	1.73E-08
2570	420531.4	3734814.99	4.87E-05	2.22E-04	4.86E-07	6.67E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
2571	420523	3734811.62	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.96E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
2572	420497.8	3734801.5	4.40E-05	2.01E-04	4.39E-07	6.03E-06	2.75E-05	6.54E-08	3.70E-06	1.26E-05	1.52E-08
2573	420489.4	3734798.13	4.29E-05	1.96E-04	4.28E-07	5.88E-06	2.68E-05	6.38E-08	3.61E-06	1.23E-05	1.48E-08
2574	420481	3734794.76	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
2575	420472.6	3734791.39	4.07E-05	1.86E-04	4.07E-07	5.58E-06	2.54E-05	6.06E-08	3.42E-06	1.17E-05	1.41E-08
2576	420464.2	3734788.01	3.96E-05	1.81E-04	3.96E-07	5.43E-06	2.48E-05	5.90E-08	3.33E-06	1.14E-05	1.37E-08
2577	420455.8	3734784.64	3.85E-05	1.76E-04	3.85E-07	5.28E-06	2.41E-05	5.74E-08	3.24E-06	1.11E-05	1.33E-08
2578	420447.4	3734781.27	3.75E-05	1.71E-04	3.74E-07	5.14E-06	2.34E-05	5.58E-08	3.15E-06	1.08E-05	1.29E-08
2579	420435.51	3734769.54	3.68E-05	1.68E-04	3.68E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
2580	420411.05	3734711.09	3.85E-05	1.76E-04	3.85E-07	5.27E-06	2.41E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
2581	420404.06	3734694.39	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
2582	420400.57	3734686.04	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.75E-08	3.25E-06	1.11E-05	1.33E-08
2583	420379.6	3734635.94	3.80E-05	1.74E-04	3.80E-07	5.21E-06	2.38E-05	5.66E-08	3.20E-06	1.09E-05	1.31E-08
2584	420376.11	3734627.59	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
2585	420369.12	3734610.89	3.73E-05	1.71E-04	3.73E-07	5.11E-06	2.33E-05	5.55E-08	3.14E-06	1.07E-05	1.29E-08
2586	420365.62	3734602.54	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.51E-08	3.11E-06	1.06E-05	1.28E-08
2587	420358.64	3734585.84	3.63E-05	1.66E-04	3.63E-07	4.98E-06	2.27E-05	5.41E-08	3.05E-06	1.04E-05	1.25E-08
2588	420682.6	3734875.7	1.07E-04	4.88E-04	1.07E-06	1.46E-05	6.67E-05	1.59E-07	8.98E-06	3.07E-05	3.69E-08
2589	420691.79	3734875.57	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.33E-05	1.75E-07	9.87E-06	3.37E-05	4.05E-08
2590	420700.98	3734875.44	1.30E-04	5.95E-04	1.30E-06	1.78E-05	8.13E-05	1.94E-07	1.09E-05	3.74E-05	4.50E-08
2591	420710.16	3734875.3	1.44E-04	6.60E-04	1.44E-06	1.98E-05	9.03E-05	2.15E-07	1.21E-05	4.15E-05	4.99E-08
2592	420737.72	3734874.9	1.99E-04	9.09E-04	1.99E-06	2.72E-05	1.24E-04	2.96E-07	1.67E-05	5.71E-05	6.87E-08
2593	420674.68	3734912.28	7.97E-05	3.65E-04	7.97E-07	1.09E-05	4.98E-05	1.19E-07	6.71E-06	2.29E-05	2.75E-08
2594	420666.17	3734908.87	7.51E-05	3.43E-04	7.51E-07	1.03E-05	4.70E-05	1.12E-07	6.32E-06	2.16E-05	2.60E-08
2595	420657.66	3734905.45	7.13E-05	3.26E-04	7.12E-07	9.77E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2596	420649.15	3734902.04	6.81E-05	3.11E-04	6.80E-07	9.33E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
2597	420640.64	3734898.62	6.53E-05	2.98E-04	6.52E-07	8.95E-06	4.08E-05	9.72E-08	5.49E-06	1.88E-05	2.26E-08
2598	420632.14	3734895.2	6.28E-05	2.87E-04	6.28E-07	8.61E-06	3.93E-05	9.35E-08	5.28E-06	1.80E-05	2.17E-08
2599	420623.63	3734891.79	6.04E-05	2.76E-04	6.04E-07	8.28E-06	3.78E-05	9.00E-08	5.08E-06	1.74E-05	2.09E-08
2600	420389.69	3734755.64	3.06E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08

2601	420386.15	3734747.18	3.07E-05	1.40E-04	3.07E-07	4.21E-06	1.92E-05	4.57E-08	2.58E-06	8.81E-06	1.06E-08
2602	420382.61	3734738.72	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
2603	420379.07	3734730.26	3.08E-05	1.41E-04	3.08E-07	4.23E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
2604	420375.53	3734721.81	3.09E-05	1.41E-04	3.09E-07	4.23E-06	1.93E-05	4.60E-08	2.60E-06	8.87E-06	1.07E-08
2605	420371.99	3734713.35	3.09E-05	1.41E-04	3.09E-07	4.23E-06	1.93E-05	4.60E-08	2.60E-06	8.87E-06	1.07E-08
2606	420350.76	3734662.6	3.05E-05	1.39E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.76E-06	1.05E-08
2607	420343.68	3734645.69	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
2608	420340.14	3734637.23	3.01E-05	1.37E-04	3.00E-07	4.12E-06	1.88E-05	4.47E-08	2.53E-06	8.64E-06	1.04E-08
2609	420336.6	3734628.77	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
2610	420333.06	3734620.32	2.97E-05	1.36E-04	2.96E-07	4.07E-06	1.85E-05	4.41E-08	2.50E-06	8.52E-06	1.02E-08
2611	420683.18	3734915.7	8.48E-05	3.88E-04	8.48E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
2612	420692.37	3734915.57	9.26E-05	4.23E-04	9.25E-07	1.27E-05	5.79E-05	1.38E-07	7.79E-06	2.66E-05	3.20E-08
2613	420701.56	3734915.43	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.38E-05	1.52E-07	8.58E-06	2.93E-05	3.53E-08
2614	420710.74	3734915.3	1.13E-04	5.14E-04	1.12E-06	1.54E-05	7.03E-05	1.67E-07	9.47E-06	3.23E-05	3.89E-08
2615	420738.3	3734914.9	1.53E-04	6.99E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.29E-05	4.39E-05	5.28E-08
2616	420675.41	3734952.34	6.79E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.35E-08
2617	420658.69	3734945.63	6.09E-05	2.79E-04	6.09E-07	8.35E-06	3.81E-05	9.07E-08	5.13E-06	1.75E-05	2.11E-08
2618	420650.33	3734942.27	5.81E-05	2.66E-04	5.81E-07	7.97E-06	3.63E-05	8.65E-08	4.89E-06	1.67E-05	2.01E-08
2619	420633.61	3734935.56	5.33E-05	2.44E-04	5.33E-07	7.30E-06	3.33E-05	7.93E-08	4.48E-06	1.53E-05	1.84E-08
2620	420616.89	3734928.85	4.90E-05	2.24E-04	4.90E-07	6.72E-06	3.06E-05	7.30E-08	4.12E-06	1.41E-05	1.69E-08
2621	420575.1	3734912.06	4.04E-05	1.85E-04	4.04E-07	5.54E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
2622	420558.38	3734905.35	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
2623	420541.67	3734898.64	3.59E-05	1.64E-04	3.58E-07	4.92E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
2624	420533.31	3734895.28	3.50E-05	1.60E-04	3.49E-07	4.79E-06	2.19E-05	5.20E-08	2.94E-06	1.00E-05	1.21E-08
2625	420516.59	3734888.57	3.34E-05	1.53E-04	3.33E-07	4.57E-06	2.09E-05	4.97E-08	2.81E-06	9.59E-06	1.15E-08
2626	420499.87	3734881.86	3.20E-05	1.46E-04	3.20E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.19E-06	1.11E-08
2627	420458.08	3734865.08	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2628	420441.36	3734858.37	2.78E-05	1.27E-04	2.78E-07	3.81E-06	1.74E-05	4.14E-08	2.34E-06	7.99E-06	9.60E-09
2629	420399.57	3734841.58	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
2630	420351.55	3734760.09	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
2631	420344.6	3734743.47	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.69E-09
2632	420320.26	3734685.31	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.70E-08	2.09E-06	7.15E-06	8.60E-09
2633	420313.3	3734668.69	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
2634	420683.77	3734955.7	7.18E-05	3.28E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.04E-06	2.06E-05	2.48E-08
2635	420692.95	3734955.56	7.78E-05	3.56E-04	7.78E-07	1.07E-05	4.87E-05	1.16E-07	6.55E-06	2.24E-05	2.69E-08
2636	420702.14	3734955.43	8.45E-05	3.86E-04	8.45E-07	1.16E-05	5.28E-05	1.26E-07	7.11E-06	2.43E-05	2.92E-08
2637	420711.33	3734955.3	9.19E-05	4.20E-04	9.18E-07	1.26E-05	5.74E-05	1.37E-07	7.73E-06	2.64E-05	3.18E-08
2638	420729.7	3734955.03	1.10E-04	5.01E-04	1.10E-06	1.50E-05	6.86E-05	1.63E-07	9.23E-06	3.15E-05	3.79E-08
2639	420738.89	3734954.9	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.52E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
2640	420675.89	3734992.3	5.80E-05	2.65E-04	5.80E-07	7.95E-06	3.63E-05	8.63E-08	4.88E-06	1.67E-05	2.00E-08
2641	420667.44	3734988.91	5.50E-05	2.51E-04	5.49E-07	7.53E-06	3.44E-05	8.18E-08	4.62E-06	1.58E-05	1.90E-08
2642	420658.99	3734985.51	5.21E-05	2.38E-04	5.21E-07	7.15E-06	3.26E-05	7.76E-08	4.39E-06	1.50E-05	1.80E-08
2643	420650.54	3734982.12	4.94E-05	2.26E-04	4.94E-07	6.77E-06	3.09E-05	7.35E-08	4.16E-06	1.42E-05	1.71E-08
2644	420642.09	3734978.73	4.69E-05	2.15E-04	4.69E-07	6.43E-06	2.93E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
2645	420633.64	3734975.33	4.47E-05	2.04E-04	4.47E-07	6.13E-06	2.79E-05	6.65E-08	3.76E-06	1.28E-05	1.54E-08
2646	420625.19	3734971.94	4.30E-05	1.97E-04	4.30E-07	5.89E-06	2.69E-05	6.40E-08	3.62E-06	1.24E-05	1.49E-08
2647	420616.74	3734968.55	4.18E-05	1.91E-04	4.17E-07	5.72E-06	2.61E-05	6.22E-08	3.51E-06	1.20E-05	1.44E-08
2648	420608.29	3734965.15	4.02E-05	1.84E-04	4.01E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
2649	420599.84	3734961.76	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
2650	420591.39	3734958.37	3.71E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.12E-06	1.07E-05	1.28E-08
2651	420557.59	3734944.8	3.25E-05	1.48E-04	3.24E-07	4.45E-06	2.03E-05	4.83E-08	2.73E-06	9.33E-06	1.12E-08
2652	420549.13	3734941.4	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.06E-06	1.09E-08
2653	420540.68	3734938.01	3.05E-05	1.40E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.77E-06	1.05E-08
2654	420532.23	3734934.62	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.53E-06	1.03E-08
2655	420523.78	3734931.22	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2656	420515.33	3734927.83	2.83E-05	1.29E-04	2.82E-07	3.87E-06	1.77E-05	4.21E-08	2.38E-06	8.12E-06	9.77E-09
2657	420506.88	3734924.44	2.77E-05	1.27E-04	2.77E-07	3.79E-06	1.73E-05	4.12E-08	2.33E-06	7.95E-06	9.57E-09
2658	420498.43	3734921.04	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
2659	420489.98	3734917.65	2.67E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.24E-09
2660	420481.53	3734914.26	2.63E-05	1.20E-04	2.63E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
2661	420473.08	3734910.86	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.44E-06	8.95E-09
2662	420456.18	3734904.08	2.51E-05	1.15E-04	2.50E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.20E-06	8.66E-09

2663	420447.73	3734900.68	2.46E-05	1.13E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.51E-09
2664	420439.28	3734897.29	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.94E-06	8.34E-09
2665	420430.83	3734893.9	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.17E-09
2666	420422.38	3734890.51	2.32E-05	1.06E-04	2.32E-07	3.18E-06	1.45E-05	3.45E-08	1.95E-06	6.66E-06	8.01E-09
2667	420351.25	3734854.96	1.98E-05	9.07E-05	1.98E-07	2.72E-06	1.24E-05	2.95E-08	1.67E-06	5.70E-06	6.85E-09
2668	420330.16	3734804.56	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
2669	420323.13	3734787.76	2.08E-05	9.49E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
2670	420319.62	3734779.36	2.08E-05	9.51E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
2671	420291.49	3734712.15	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.95E-06	7.15E-09
2672	420287.98	3734703.75	2.06E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.13E-09
2673	420284.46	3734695.35	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
2674	420277.43	3734678.55	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
2675	420684.35	3734995.69	6.12E-05	2.80E-04	6.12E-07	8.39E-06	3.83E-05	9.11E-08	5.15E-06	1.76E-05	2.12E-08
2676	420693.53	3734995.56	6.60E-05	3.02E-04	6.60E-07	9.05E-06	4.13E-05	9.83E-08	5.55E-06	1.90E-05	2.28E-08
2677	420702.72	3734995.42	7.12E-05	3.26E-04	7.12E-07	9.77E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2678	420711.91	3734995.29	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.14E-07	6.47E-06	2.21E-05	2.66E-08
2679	420730.28	3734995.02	8.98E-05	4.11E-04	8.98E-07	1.23E-05	5.62E-05	1.34E-07	7.56E-06	2.58E-05	3.10E-08
2680	420739.47	3734994.89	9.71E-05	4.44E-04	9.70E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
2681	420676.6	3735032.34	4.91E-05	2.25E-04	4.91E-07	6.74E-06	3.07E-05	7.32E-08	4.13E-06	1.41E-05	1.70E-08
2682	420659.93	3735025.65	4.48E-05	2.05E-04	4.47E-07	6.14E-06	2.80E-05	6.66E-08	3.77E-06	1.29E-05	1.55E-08
2683	420651.6	3735022.31	4.27E-05	1.95E-04	4.27E-07	5.85E-06	2.67E-05	6.36E-08	3.59E-06	1.23E-05	1.48E-08
2684	420634.94	3735015.62	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
2685	420618.28	3735008.93	3.63E-05	1.66E-04	3.63E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
2686	420609.95	3735005.58	3.49E-05	1.60E-04	3.49E-07	4.78E-06	2.18E-05	5.19E-08	2.94E-06	1.00E-05	1.21E-08
2687	420593.28	3734998.89	3.24E-05	1.48E-04	3.24E-07	4.44E-06	2.03E-05	4.83E-08	2.73E-06	9.32E-06	1.12E-08
2688	420584.95	3734995.55	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.64E-06	9.00E-06	1.08E-08
2689	420543.3	3734978.82	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.30E-09
2690	420526.64	3734972.13	2.55E-05	1.17E-04	2.55E-07	3.50E-06	1.60E-05	3.80E-08	2.15E-06	7.34E-06	8.82E-09
2691	420518.31	3734968.79	2.48E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.11E-06	8.55E-09
2692	420501.64	3734962.1	2.37E-05	1.08E-04	2.37E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.18E-09
2693	420484.98	3734955.41	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.41E-08	1.93E-06	6.59E-06	7.92E-09
2694	420476.65	3734952.06	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.37E-08	1.90E-06	6.50E-06	7.81E-09
2695	420459.99	3734945.37	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
2696	420434.99	3734935.34	2.11E-05	9.63E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.28E-09
2697	420418.33	3734928.65	2.03E-05	9.26E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.70E-06	5.82E-06	7.00E-09
2698	420410	3734925.3	1.99E-05	9.09E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
2699	420323.23	3734883.57	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.80E-09
2700	420302.43	3734833.88	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
2701	420298.97	3734825.6	1.74E-05	7.95E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2702	420292.04	3734809.03	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.47E-06	5.01E-06	6.02E-09
2703	420285.1	3734792.47	1.75E-05	7.98E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.02E-06	6.03E-09
2704	420253.91	3734717.94	1.73E-05	7.93E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.99E-09
2705	420246.98	3734701.37	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
2706	420222.72	3734643.4	1.66E-05	7.59E-05	1.66E-07	2.28E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.74E-09
2707	420219.26	3734635.12	1.65E-05	7.54E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.74E-06	5.70E-09
2708	420684.93	3735035.69	5.15E-05	2.36E-04	5.15E-07	7.07E-06	3.22E-05	7.67E-08	4.34E-06	1.48E-05	1.78E-08
2709	420694.11	3735035.55	5.53E-05	2.53E-04	5.52E-07	7.58E-06	3.46E-05	8.23E-08	4.65E-06	1.59E-05	1.91E-08
2710	420703.3	3735035.42	5.93E-05	2.71E-04	5.93E-07	8.13E-06	3.71E-05	8.83E-08	4.99E-06	1.70E-05	2.05E-08
2711	420712.49	3735035.29	6.37E-05	2.91E-04	6.37E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
2712	420730.86	3735035.02	7.35E-05	3.36E-04	7.35E-07	1.01E-05	4.60E-05	1.09E-07	6.19E-06	2.11E-05	2.54E-08
2713	420677.1	3735072.31	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
2714	420668.69	3735068.93	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.50E-05	5.94E-08	3.36E-06	1.15E-05	1.38E-08
2715	420660.27	3735065.55	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.39E-05	5.70E-08	3.22E-06	1.10E-05	1.32E-08
2716	420651.86	3735062.17	3.67E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
2717	420643.45	3735058.8	3.52E-05	1.61E-04	3.52E-07	4.83E-06	2.20E-05	5.25E-08	2.97E-06	1.01E-05	1.22E-08
2718	420635.04	3735055.42	3.38E-05	1.55E-04	3.38E-07	4.64E-06	2.11E-05	5.04E-08	2.85E-06	9.72E-06	1.17E-08
2719	420626.63	3735052.04	3.27E-05	1.49E-04	3.27E-07	4.48E-06	2.04E-05	4.86E-08	2.75E-06	9.39E-06	1.13E-08
2720	420618.22	3735048.67	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.05E-06	1.09E-08
2721	420609.81	3735045.29	3.04E-05	1.39E-04	3.04E-07	4.16E-06	1.90E-05	4.52E-08	2.55E-06	8.73E-06	1.05E-08
2722	420270.62	3734853.45	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
2723	420267.12	3734845.09	1.49E-05	6.82E-05	1.49E-07	2.04E-06	9.33E-06	2.22E-08	1.26E-06	4.29E-06	5.15E-09
2724	420260.13	3734828.37	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.35E-06	2.23E-08	1.26E-06	4.30E-06	5.17E-09

2725	420232.14	3734761.48	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.32E-06	2.22E-08	1.25E-06	4.28E-06	5.15E-09
2726	420228.64	3734753.12	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.21E-08	1.25E-06	4.27E-06	5.14E-09
2727	420218.14	3734728.04	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
2728	420193.65	3734669.51	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.94E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
2729	420186.65	3734652.79	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2730	420179.66	3734636.07	1.39E-05	6.38E-05	1.39E-07	1.91E-06	8.72E-06	2.08E-08	1.17E-06	4.01E-06	4.82E-09
2731	420685.51	3735075.68	4.35E-05	1.99E-04	4.34E-07	5.96E-06	2.72E-05	6.47E-08	3.66E-06	1.25E-05	1.50E-08
2732	420694.69	3735075.55	4.64E-05	2.12E-04	4.64E-07	6.36E-06	2.90E-05	6.90E-08	3.90E-06	1.33E-05	1.60E-08
2733	420703.88	3735075.42	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.10E-05	7.37E-08	4.17E-06	1.42E-05	1.71E-08
2734	420731.44	3735075.02	6.05E-05	2.77E-04	6.05E-07	8.30E-06	3.79E-05	9.01E-08	5.09E-06	1.74E-05	2.09E-08
2735	420740.63	3735074.88	6.48E-05	2.96E-04	6.47E-07	8.88E-06	4.05E-05	9.64E-08	5.45E-06	1.86E-05	2.24E-08
2736	420643.68	3735098.65	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.52E-08	2.56E-06	8.73E-06	1.05E-08
2737	420635.2	3735095.25	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
2738	420626.72	3735091.84	2.85E-05	1.30E-04	2.85E-07	3.90E-06	1.78E-05	4.24E-08	2.40E-06	8.18E-06	9.84E-09
2739	420618.24	3735088.44	2.76E-05	1.26E-04	2.76E-07	3.78E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
2740	420609.76	3735085.03	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.20E-09
2741	420601.28	3735081.63	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
2742	420592.8	3735078.22	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.15E-06	8.59E-09
2743	420584.32	3735074.82	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.58E-08	2.03E-06	6.92E-06	8.32E-09
2744	420575.84	3735071.41	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.47E-08	1.96E-06	6.70E-06	8.06E-09
2745	420567.36	3735068.01	2.26E-05	1.04E-04	2.26E-07	3.10E-06	1.42E-05	3.37E-08	1.90E-06	6.51E-06	7.82E-09
2746	420558.88	3735064.6	2.20E-05	1.01E-04	2.20E-07	3.02E-06	1.38E-05	3.27E-08	1.85E-06	6.32E-06	7.60E-09
2747	420550.4	3735061.2	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.19E-08	1.80E-06	6.15E-06	7.39E-09
2748	420541.92	3735057.79	2.08E-05	9.53E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
2749	420516.47	3735047.58	1.94E-05	8.88E-05	1.94E-07	2.66E-06	1.21E-05	2.89E-08	1.63E-06	5.58E-06	6.71E-09
2750	420507.99	3735044.17	1.90E-05	8.69E-05	1.90E-07	2.60E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
2751	420499.51	3735040.77	1.86E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
2752	420491.03	3735037.36	1.81E-05	8.29E-05	1.81E-07	2.49E-06	1.13E-05	2.70E-08	1.53E-06	5.21E-06	6.27E-09
2753	420482.55	3735033.96	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.13E-09
2754	420474.07	3735030.55	1.74E-05	7.95E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2755	420465.59	3735027.15	1.71E-05	7.80E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.90E-06	5.90E-09
2756	420457.11	3735023.74	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.80E-09
2757	420448.63	3735020.34	1.65E-05	7.55E-05	1.65E-07	2.26E-06	1.03E-05	2.46E-08	1.39E-06	4.75E-06	5.71E-09
2758	420440.15	3735016.93	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.37E-06	4.69E-06	5.64E-09
2759	420431.67	3735013.52	1.62E-05	7.39E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.64E-06	5.58E-09
2760	420423.19	3735010.12	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
2761	420414.71	3735006.71	1.58E-05	7.23E-05	1.58E-07	2.17E-06	9.89E-06	2.36E-08	1.33E-06	4.55E-06	5.47E-09
2762	420406.23	3735003.31	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
2763	420397.74	3734999.9	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.74E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
2764	420389.26	3734996.5	1.54E-05	7.02E-05	1.54E-07	2.11E-06	9.60E-06	2.29E-08	1.29E-06	4.41E-06	5.31E-09
2765	420380.78	3734993.09	1.52E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.24E-09
2766	420372.3	3734989.69	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
2767	420363.82	3734986.28	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
2768	420287.5	3734955.64	1.28E-05	5.86E-05	1.28E-07	1.76E-06	8.01E-06	1.91E-08	1.08E-06	3.68E-06	4.43E-09
2769	420279.02	3734952.23	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
2770	420267.01	3734940.4	1.24E-05	5.67E-05	1.24E-07	1.70E-06	7.76E-06	1.85E-08	1.04E-06	3.57E-06	4.29E-09
2771	420263.48	3734931.97	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
2772	420224.67	3734839.23	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.72E-06	4.47E-09
2773	420203.51	3734788.65	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
2774	420199.98	3734780.22	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.70E-06	4.44E-09
2775	420196.45	3734771.79	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.02E-06	1.91E-08	1.08E-06	3.69E-06	4.43E-09
2776	420192.92	3734763.36	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.90E-08	1.08E-06	3.68E-06	4.42E-09
2777	420161.17	3734687.49	1.24E-05	5.65E-05	1.24E-07	1.70E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
2778	420157.64	3734679.06	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2779	420150.59	3734662.2	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
2780	420147.06	3734653.76	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.56E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2781	420143.53	3734645.33	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
2782	420678.29	3735152.31	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.52E-08	2.56E-06	8.73E-06	1.05E-08
2783	420661.52	3735145.58	2.82E-05	1.29E-04	2.82E-07	3.87E-06	1.76E-05	4.20E-08	2.37E-06	8.11E-06	9.75E-09
2784	420644.76	3735138.85	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.12E-09
2785	420628	3735132.12	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.12E-06	8.57E-09
2786	420611.24	3735125.39	2.35E-05	1.07E-04	2.35E-07	3.22E-06	1.47E-05	3.50E-08	1.98E-06	6.75E-06	8.12E-09

2787	420602.85	3735122.02	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.41E-08	1.93E-06	6.58E-06	7.92E-09
2788	420586.09	3735115.29	2.15E-05	9.84E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
2789	420569.33	3735108.56	2.03E-05	9.28E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
2790	420560.95	3735105.2	1.97E-05	9.02E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.82E-09
2791	420552.57	3735101.83	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
2792	420535.8	3735095.1	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
2793	420502.28	3735081.64	1.65E-05	7.56E-05	1.65E-07	2.27E-06	1.03E-05	2.46E-08	1.39E-06	4.75E-06	5.71E-09
2794	420493.9	3735078.27	1.62E-05	7.42E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.66E-06	5.61E-09
2795	420485.52	3735074.91	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
2796	420477.13	3735071.54	1.56E-05	7.15E-05	1.56E-07	2.15E-06	9.78E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
2797	420460.37	3735064.81	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
2798	420443.61	3735058.08	1.47E-05	6.72E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.08E-09
2799	420426.85	3735051.35	1.44E-05	6.60E-05	1.44E-07	1.98E-06	9.03E-06	2.15E-08	1.22E-06	4.15E-06	4.99E-09
2800	420410.08	3735044.62	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2801	420401.7	3735041.26	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.01E-06	4.83E-09
2802	420384.94	3735034.53	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.54E-06	2.03E-08	1.15E-06	3.93E-06	4.72E-09
2803	420368.18	3735027.79	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
2804	420359.8	3735024.43	1.32E-05	6.03E-05	1.32E-07	1.81E-06	8.24E-06	1.96E-08	1.11E-06	3.79E-06	4.56E-09
2805	420351.41	3735021.06	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2806	420334.65	3735014.33	1.27E-05	5.82E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.66E-06	4.40E-09
2807	420259.22	3734984.05	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.37E-07	3.20E-06	3.85E-09
2808	420238.97	3734968.98	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2809	420232	3734952.32	1.10E-05	5.02E-05	1.10E-07	1.50E-06	6.86E-06	1.63E-08	9.23E-07	3.15E-06	3.79E-09
2810	420211.08	3734902.33	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2811	420204.1	3734885.67	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2812	420200.62	3734877.34	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2813	420172.73	3734810.68	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
2814	420169.24	3734802.35	1.12E-05	5.12E-05	1.12E-07	1.54E-06	7.00E-06	1.67E-08	9.43E-07	3.22E-06	3.87E-09
2815	420162.27	3734785.69	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
2816	420158.78	3734777.36	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
2817	420134.37	3734719.04	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
2818	420127.4	3734702.37	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.08E-07	3.10E-06	3.73E-09
2819	420120.43	3734685.71	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
2820	420113.45	3734669.05	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2821	420106.48	3734652.38	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2822	420103	3734644.05	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
2823	420096.02	3734627.39	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
2824	420686.67	3735155.67	3.16E-05	1.44E-04	3.16E-07	4.33E-06	1.97E-05	4.70E-08	2.66E-06	9.07E-06	1.09E-08
2825	420695.85	3735155.54	3.35E-05	1.53E-04	3.34E-07	4.59E-06	2.09E-05	4.98E-08	2.82E-06	9.62E-06	1.16E-08
2826	420705.04	3735155.41	3.55E-05	1.63E-04	3.55E-07	4.87E-06	2.22E-05	5.29E-08	2.99E-06	1.02E-05	1.23E-08
2827	420714.23	3735155.27	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
2828	420732.6	3735155.01	4.27E-05	1.95E-04	4.27E-07	5.85E-06	2.67E-05	6.35E-08	3.59E-06	1.23E-05	1.47E-08
2829	420741.79	3735154.87	4.53E-05	2.07E-04	4.53E-07	6.22E-06	2.83E-05	6.75E-08	3.81E-06	1.30E-05	1.57E-08
2830	420678.8	3735192.28	2.67E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.24E-09
2831	420670.36	3735188.89	2.58E-05	1.18E-04	2.58E-07	3.54E-06	1.61E-05	3.84E-08	2.17E-06	7.42E-06	8.92E-09
2832	420661.92	3735185.5	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.10E-06	7.16E-06	8.61E-09
2833	420653.47	3735182.11	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
2834	420645.03	3735178.72	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.73E-06	8.09E-09
2835	420636.58	3735175.33	2.27E-05	1.04E-04	2.27E-07	3.12E-06	1.42E-05	3.38E-08	1.91E-06	6.53E-06	7.85E-09
2836	420628.14	3735171.94	2.21E-05	1.01E-04	2.20E-07	3.02E-06	1.38E-05	3.28E-08	1.86E-06	6.34E-06	7.62E-09
2837	420619.7	3735168.55	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.18E-08	1.80E-06	6.14E-06	7.39E-09
2838	420611.25	3735165.16	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
2839	420602.81	3735161.77	2.01E-05	9.21E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.79E-06	6.96E-09
2840	420594.36	3735158.38	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.77E-09
2841	420585.92	3735154.98	1.91E-05	8.73E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
2842	420577.47	3735151.59	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
2843	420569.03	3735148.2	1.82E-05	8.30E-05	1.82E-07	2.49E-06	1.14E-05	2.70E-08	1.53E-06	5.22E-06	6.28E-09
2844	420560.59	3735144.81	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
2845	420552.14	3735141.42	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
2846	420543.7	3735138.03	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.80E-09
2847	420535.25	3735134.64	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
2848	420526.81	3735131.25	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09

2849	420518.37	3735127.86	1.55E-05	7.09E-05	1.55E-07	2.12E-06	9.69E-06	2.31E-08	1.30E-06	4.45E-06	5.36E-09
2850	420509.92	3735124.47	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
2851	420484.59	3735114.3	1.42E-05	6.50E-05	1.42E-07	1.95E-06	8.89E-06	2.12E-08	1.20E-06	4.09E-06	4.91E-09
2852	420476.15	3735110.91	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.76E-06	2.09E-08	1.18E-06	4.03E-06	4.84E-09
2853	420467.7	3735107.52	1.38E-05	6.33E-05	1.38E-07	1.90E-06	8.65E-06	2.06E-08	1.16E-06	3.98E-06	4.78E-09
2854	420459.26	3735104.13	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.72E-09
2855	420450.81	3735100.74	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.44E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
2856	420442.37	3735097.35	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
2857	420433.92	3735093.96	1.32E-05	6.03E-05	1.32E-07	1.81E-06	8.25E-06	1.96E-08	1.11E-06	3.79E-06	4.56E-09
2858	420425.48	3735090.57	1.30E-05	5.97E-05	1.30E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2859	420417.04	3735087.18	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
2860	420408.59	3735083.79	1.28E-05	5.83E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.41E-09
2861	420400.15	3735080.39	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
2862	420391.7	3735077	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.79E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
2863	420383.26	3735073.61	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.71E-06	1.84E-08	1.04E-06	3.54E-06	4.26E-09
2864	420374.82	3735070.22	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
2865	420366.37	3735066.83	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.56E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2866	420357.93	3735063.44	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.13E-09
2867	420349.48	3735060.05	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
2868	420341.04	3735056.66	1.17E-05	5.34E-05	1.17E-07	1.60E-06	7.30E-06	1.74E-08	9.83E-07	3.36E-06	4.04E-09
2869	420332.6	3735053.27	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
2870	420324.15	3735049.88	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2871	420315.71	3735046.49	1.13E-05	5.15E-05	1.13E-07	1.54E-06	7.04E-06	1.68E-08	9.48E-07	3.24E-06	3.89E-09
2872	420307.26	3735043.1	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
2873	420298.82	3735039.71	1.10E-05	5.02E-05	1.10E-07	1.51E-06	6.87E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
2874	420290.38	3735036.32	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2875	420281.93	3735032.93	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.70E-06	1.59E-08	9.01E-07	3.08E-06	3.70E-09
2876	420273.49	3735029.54	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2877	420265.04	3735026.15	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.77E-07	3.00E-06	3.60E-09
2878	420256.6	3735022.76	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.96E-06	3.55E-09
2879	420248.15	3735019.37	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
2880	420239.71	3735015.98	1.00E-05	4.57E-05	9.99E-08	1.37E-06	6.25E-06	1.49E-08	8.41E-07	2.87E-06	3.46E-09
2881	420231.27	3735012.59	9.85E-06	4.50E-05	9.84E-08	1.35E-06	6.16E-06	1.47E-08	8.29E-07	2.83E-06	3.40E-09
2882	420222.82	3735009.2	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
2883	420210.87	3734997.41	9.58E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
2884	420207.35	3734989.02	9.63E-06	4.40E-05	9.63E-08	1.32E-06	6.02E-06	1.43E-08	8.10E-07	2.77E-06	3.33E-09
2885	420203.84	3734980.62	9.68E-06	4.42E-05	9.67E-08	1.33E-06	6.05E-06	1.44E-08	8.14E-07	2.78E-06	3.34E-09
2886	420196.82	3734963.83	9.76E-06	4.46E-05	9.75E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.80E-06	3.37E-09
2887	420189.79	3734947.05	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2888	420182.76	3734930.26	9.86E-06	4.51E-05	9.86E-08	1.35E-06	6.17E-06	1.47E-08	8.30E-07	2.83E-06	3.41E-09
2889	420179.25	3734921.86	9.88E-06	4.52E-05	9.88E-08	1.35E-06	6.18E-06	1.47E-08	8.31E-07	2.84E-06	3.41E-09
2890	420172.23	3734905.08	9.92E-06	4.53E-05	9.91E-08	1.36E-06	6.20E-06	1.48E-08	8.34E-07	2.85E-06	3.43E-09
2891	420165.2	3734888.29	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
2892	420133.59	3734812.74	9.84E-06	4.50E-05	9.84E-08	1.35E-06	6.15E-06	1.47E-08	8.28E-07	2.83E-06	3.40E-09
2893	420130.07	3734804.35	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2894	420098.46	3734728.8	9.48E-06	4.33E-05	9.48E-08	1.30E-06	5.93E-06	1.41E-08	7.98E-07	2.72E-06	3.28E-09
2895	420091.44	3734712.01	9.36E-06	4.28E-05	9.36E-08	1.28E-06	5.85E-06	1.39E-08	7.88E-07	2.69E-06	3.24E-09
2896	420087.92	3734703.62	9.31E-06	4.26E-05	9.30E-08	1.28E-06	5.82E-06	1.39E-08	7.83E-07	2.67E-06	3.22E-09
2897	420080.9	3734686.83	9.26E-06	4.24E-05	9.26E-08	1.27E-06	5.79E-06	1.38E-08	7.79E-07	2.66E-06	3.20E-09
2898	420073.87	3734670.04	9.23E-06	4.22E-05	9.22E-08	1.26E-06	5.77E-06	1.37E-08	7.76E-07	2.65E-06	3.19E-09
2899	420066.85	3734653.26	9.12E-06	4.17E-05	9.12E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
2900	420063.33	3734644.86	9.07E-06	4.15E-05	9.06E-08	1.24E-06	5.67E-06	1.35E-08	7.63E-07	2.61E-06	3.13E-09
2901	420056.31	3734628.07	8.95E-06	4.09E-05	8.94E-08	1.23E-06	5.60E-06	1.33E-08	7.53E-07	2.57E-06	3.09E-09
2902	420687.25	3735195.67	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.96E-06	9.58E-09
2903	420696.43	3735195.54	2.93E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
2904	420705.62	3735195.4	3.10E-05	1.42E-04	3.09E-07	4.24E-06	1.94E-05	4.61E-08	2.60E-06	8.90E-06	1.07E-08
2905	420733.18	3735195	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
2906	420742.37	3735194.87	3.95E-05	1.80E-04	3.94E-07	5.41E-06	2.47E-05	5.87E-08	3.32E-06	1.13E-05	1.36E-08
2907	420679.33	3735232.25	2.38E-05	1.09E-04	2.38E-07	3.27E-06	1.49E-05	3.55E-08	2.01E-06	6.85E-06	8.24E-09
2908	420670.83	3735228.84	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.62E-06	7.96E-09
2909	420662.33	3735225.43	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.71E-09
2910	420653.83	3735222.01	2.16E-05	9.89E-05	2.16E-07	2.96E-06	1.35E-05	3.22E-08	1.82E-06	6.21E-06	7.47E-09

2911	420645.33	3735218.6	2.10E-05	9.59E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
2912	420636.83	3735215.19	2.04E-05	9.31E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.04E-09
2913	420628.33	3735211.77	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
2914	420619.82	3735208.36	1.92E-05	8.79E-05	1.92E-07	2.64E-06	1.20E-05	2.86E-08	1.62E-06	5.53E-06	6.65E-09
2915	420611.32	3735204.95	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.38E-06	6.46E-09
2916	420602.82	3735201.54	1.82E-05	8.32E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
2917	420594.32	3735198.12	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
2918	420585.82	3735194.71	1.72E-05	7.86E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
2919	420577.32	3735191.3	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.81E-06	5.78E-09
2920	420568.82	3735187.88	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.63E-09
2921	420560.32	3735184.47	1.59E-05	7.25E-05	1.59E-07	2.17E-06	9.92E-06	2.36E-08	1.33E-06	4.56E-06	5.48E-09
2922	420551.82	3735181.06	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.67E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
2923	420543.32	3735177.64	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.43E-06	2.25E-08	1.27E-06	4.34E-06	5.21E-09
2924	420534.82	3735174.23	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
2925	420526.32	3735170.82	1.44E-05	6.58E-05	1.44E-07	1.97E-06	9.00E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
2926	420517.82	3735167.4	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
2927	420509.32	3735163.99	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
2928	420500.82	3735160.58	1.34E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.86E-06	4.65E-09
2929	420466.82	3735146.93	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
2930	420458.32	3735143.51	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
2931	420449.82	3735140.1	1.23E-05	5.62E-05	1.23E-07	1.68E-06	7.68E-06	1.83E-08	1.03E-06	3.53E-06	4.25E-09
2932	420441.31	3735136.69	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.59E-06	1.81E-08	1.02E-06	3.49E-06	4.19E-09
2933	420432.81	3735133.27	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
2934	420424.31	3735129.86	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	9.99E-07	3.41E-06	4.10E-09
2935	420415.81	3735126.45	1.17E-05	5.37E-05	1.17E-07	1.61E-06	7.34E-06	1.75E-08	9.87E-07	3.37E-06	4.06E-09
2936	420407.31	3735123.03	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.76E-07	3.33E-06	4.01E-09
2937	420398.81	3735119.62	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
2938	420390.31	3735116.21	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
2939	420381.81	3735112.79	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.01E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
2940	420373.31	3735109.38	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.93E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
2941	420364.81	3735105.97	1.09E-05	5.00E-05	1.09E-07	1.50E-06	6.84E-06	1.63E-08	9.20E-07	3.14E-06	3.78E-09
2942	420356.31	3735102.56	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
2943	420347.81	3735099.14	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.03E-07	3.08E-06	3.71E-09
2944	420339.31	3735095.73	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.65E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
2945	420330.81	3735092.32	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
2946	420322.31	3735088.9	1.04E-05	4.76E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.60E-09
2947	420313.81	3735085.49	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
2948	420305.31	3735082.08	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
2949	420296.81	3735078.66	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
2950	420288.31	3735075.25	9.94E-06	4.55E-05	9.94E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
2951	420279.81	3735071.84	9.83E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.27E-07	2.82E-06	3.40E-09
2952	420271.3	3735068.42	9.71E-06	4.44E-05	9.71E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.36E-09
2953	420262.8	3735065.01	9.59E-06	4.39E-05	9.59E-08	1.32E-06	6.00E-06	1.43E-08	8.07E-07	2.76E-06	3.32E-09
2954	420254.3	3735061.6	9.48E-06	4.33E-05	9.47E-08	1.30E-06	5.92E-06	1.41E-08	7.97E-07	2.72E-06	3.27E-09
2955	420245.8	3735058.19	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
2956	420237.3	3735054.77	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
2957	420228.8	3735051.36	9.12E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
2958	420220.3	3735047.95	9.00E-06	4.11E-05	8.99E-08	1.23E-06	5.63E-06	1.34E-08	7.57E-07	2.59E-06	3.11E-09
2959	420211.8	3735044.53	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
2960	420203.3	3735041.12	8.76E-06	4.00E-05	8.75E-08	1.20E-06	5.48E-06	1.30E-08	7.37E-07	2.52E-06	3.03E-09
2961	420194.8	3735037.71	8.64E-06	3.95E-05	8.64E-08	1.18E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.99E-09
2962	420182.76	3735025.84	8.56E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2963	420175.69	3735008.94	8.63E-06	3.94E-05	8.62E-08	1.18E-06	5.39E-06	1.28E-08	7.26E-07	2.48E-06	2.98E-09
2964	420172.16	3735000.49	8.65E-06	3.95E-05	8.64E-08	1.19E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.99E-09
2965	420168.62	3734992.04	8.68E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
2966	420165.08	3734983.59	8.70E-06	3.98E-05	8.70E-08	1.19E-06	5.44E-06	1.30E-08	7.32E-07	2.50E-06	3.01E-09
2967	420158.01	3734966.69	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2968	420154.48	3734958.24	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
2969	420150.94	3734949.79	8.81E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.05E-09
2970	420147.4	3734941.34	8.82E-06	4.03E-05	8.82E-08	1.21E-06	5.52E-06	1.31E-08	7.42E-07	2.54E-06	3.05E-09
2971	420140.33	3734924.44	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2972	420136.79	3734915.99	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09

2973	420133.26	3734907.54	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2974	420129.72	3734899.09	8.83E-06	4.04E-05	8.82E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2975	420122.65	3734882.19	8.82E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.42E-07	2.53E-06	3.05E-09
2976	420119.11	3734873.74	8.81E-06	4.03E-05	8.80E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.04E-09
2977	420115.58	3734865.29	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2978	420112.04	3734856.84	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
2979	420104.97	3734839.94	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2980	420101.43	3734831.49	8.74E-06	4.00E-05	8.74E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2981	420076.68	3734772.34	8.59E-06	3.93E-05	8.58E-08	1.18E-06	5.37E-06	1.28E-08	7.22E-07	2.47E-06	2.97E-09
2982	420069.61	3734755.44	8.52E-06	3.90E-05	8.52E-08	1.17E-06	5.33E-06	1.27E-08	7.17E-07	2.45E-06	2.94E-09
2983	420059	3734730.09	8.39E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
2984	420051.93	3734713.19	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
2985	420048.39	3734704.74	8.17E-06	3.74E-05	8.17E-08	1.12E-06	5.11E-06	1.22E-08	6.88E-07	2.35E-06	2.82E-09
2986	420044.86	3734696.29	8.13E-06	3.72E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
2987	420041.32	3734687.84	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
2988	420034.25	3734670.94	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
2989	420030.71	3734662.49	8.04E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2990	420027.18	3734654.04	8.04E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2991	420023.64	3734645.59	7.99E-06	3.65E-05	7.98E-08	1.09E-06	4.99E-06	1.19E-08	6.72E-07	2.29E-06	2.76E-09
2992	420687.83	3735235.67	2.47E-05	1.13E-04	2.47E-07	3.38E-06	1.54E-05	3.67E-08	2.08E-06	7.09E-06	8.53E-09
2993	420697.02	3735235.53	2.59E-05	1.19E-04	2.59E-07	3.56E-06	1.62E-05	3.86E-08	2.18E-06	7.45E-06	8.96E-09
2994	420706.2	3735235.4	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.84E-06	9.43E-09
2995	420733.76	3735235	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.22E-06	1.11E-08
2996	420742.95	3735234.87	3.39E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.75E-06	1.17E-08
2997	420771.64	3734561.95	1.30E-02	5.93E-02	1.30E-04	1.78E-03	8.11E-03	1.93E-05	1.09E-03	3.73E-03	4.48E-06
2998	420782.08	3734561.19	1.10E-02	5.01E-02	1.10E-04	1.50E-03	6.85E-03	1.63E-05	9.22E-04	3.15E-03	3.79E-06
2999	420766.7	3734581.09	1.05E-02	4.78E-02	1.04E-04	1.43E-03	6.54E-03	1.56E-05	8.79E-04	3.00E-03	3.61E-06
3000	420793.04	3734526.56	9.67E-03	4.42E-02	9.66E-05	1.33E-03	6.04E-03	1.44E-05	8.13E-04	2.78E-03	3.34E-06
3001	420793.3	3734516.58	9.18E-03	4.20E-02	9.17E-05	1.26E-03	5.74E-03	1.37E-05	7.72E-04	2.64E-03	3.17E-06
3002	420793.57	3734506.59	8.46E-03	3.87E-02	8.45E-05	1.16E-03	5.29E-03	1.26E-05	7.12E-04	2.43E-03	2.92E-06
3003	420792.37	3734560.77	9.24E-03	4.22E-02	9.23E-05	1.27E-03	5.78E-03	1.38E-05	7.77E-04	2.65E-03	3.19E-06
3004	420785.45	3734576.75	8.97E-03	4.10E-02	8.97E-05	1.23E-03	5.61E-03	1.34E-05	7.55E-04	2.58E-03	3.10E-06
3005	420773.95	3734588.1	8.79E-03	4.02E-02	8.78E-05	1.20E-03	5.49E-03	1.31E-05	7.39E-04	2.52E-03	3.04E-06
3006	420757.9	3734594.84	8.54E-03	3.90E-02	8.53E-05	1.17E-03	5.34E-03	1.27E-05	7.18E-04	2.45E-03	2.95E-06
3007	420803.03	3734526.83	7.78E-03	3.56E-02	7.78E-05	1.07E-03	4.86E-03	1.16E-05	6.54E-04	2.24E-03	2.69E-06
3008	420803.3	3734516.84	7.33E-03	3.35E-02	7.32E-05	1.00E-03	4.58E-03	1.09E-05	6.16E-04	2.11E-03	2.53E-06
3009	420803.57	3734506.86	6.72E-03	3.07E-02	6.72E-05	9.22E-04	4.20E-03	1.00E-05	5.66E-04	1.93E-03	2.32E-06
3010	420800.89	3734564.46	7.86E-03	3.59E-02	7.86E-05	1.08E-03	4.91E-03	1.17E-05	6.61E-04	2.26E-03	2.72E-06
3011	420796.93	3734573.59	7.88E-03	3.60E-02	7.88E-05	1.08E-03	4.93E-03	1.17E-05	6.63E-04	2.26E-03	2.72E-06
3012	420792.97	3734582.72	7.68E-03	3.51E-02	7.67E-05	1.05E-03	4.80E-03	1.14E-05	6.46E-04	2.21E-03	2.65E-06
3013	420779.84	3734595.7	7.50E-03	3.43E-02	7.50E-05	1.03E-03	4.69E-03	1.12E-05	6.31E-04	2.16E-03	2.59E-06
3014	420770.66	3734599.55	7.49E-03	3.43E-02	7.49E-05	1.03E-03	4.68E-03	1.12E-05	6.30E-04	2.15E-03	2.59E-06
3015	420761.48	3734603.39	7.21E-03	3.30E-02	7.20E-05	9.88E-04	4.51E-03	1.07E-05	6.06E-04	2.07E-03	2.49E-06
3016	420812.76	3734537.08	6.60E-03	3.02E-02	6.60E-05	9.05E-04	4.13E-03	9.83E-06	5.56E-04	1.90E-03	2.28E-06
3017	420813.03	3734527.09	6.34E-03	2.90E-02	6.33E-05	8.69E-04	3.96E-03	9.43E-06	5.33E-04	1.82E-03	2.19E-06
3018	420813.29	3734517.11	5.94E-03	2.71E-02	5.93E-05	8.14E-04	3.71E-03	8.84E-06	4.99E-04	1.71E-03	2.05E-06
3019	420813.56	3734507.13	5.44E-03	2.49E-02	5.44E-05	7.46E-04	3.40E-03	8.10E-06	4.58E-04	1.56E-03	1.88E-06
3020	420811.31	3734563.75	6.67E-03	3.05E-02	6.67E-05	9.14E-04	4.17E-03	9.93E-06	5.61E-04	1.92E-03	2.30E-06
3021	420807.49	3734572.56	6.80E-03	3.11E-02	6.80E-05	9.33E-04	4.25E-03	1.01E-05	5.72E-04	1.95E-03	2.35E-06
3022	420803.67	3734581.36	6.78E-03	3.10E-02	6.77E-05	9.29E-04	4.24E-03	1.01E-05	5.70E-04	1.95E-03	2.34E-06
3023	420799.86	3734590.16	6.59E-03	3.01E-02	6.59E-05	9.04E-04	4.12E-03	9.81E-06	5.55E-04	1.89E-03	2.28E-06
3024	420787.19	3734602.68	6.46E-03	2.95E-02	6.46E-05	8.86E-04	4.04E-03	9.62E-06	5.44E-04	1.86E-03	2.23E-06
3025	420778.34	3734606.38	6.48E-03	2.96E-02	6.48E-05	8.89E-04	4.05E-03	9.65E-06	5.46E-04	1.86E-03	2.24E-06
3026	420769.49	3734610.09	6.32E-03	2.89E-02	6.31E-05	8.66E-04	3.95E-03	9.40E-06	5.31E-04	1.82E-03	2.18E-06
3027	420760.64	3734613.8	5.94E-03	2.72E-02	5.94E-05	8.15E-04	3.72E-03	8.85E-06	5.00E-04	1.71E-03	2.05E-06
3028	420751.79	3734617.51	5.39E-03	2.46E-02	5.38E-05	7.38E-04	3.37E-03	8.02E-06	4.53E-04	1.55E-03	1.86E-06
3029	420822.76	3734537.34	5.49E-03	2.51E-02	5.48E-05	7.52E-04	3.43E-03	8.17E-06	4.62E-04	1.58E-03	1.90E-06
3030	420823.02	3734527.36	5.23E-03	2.39E-02	5.23E-05	7.17E-04	3.27E-03	7.79E-06	4.40E-04	1.50E-03	1.81E-06
3031	420823.29	3734517.38	4.88E-03	2.23E-02	4.88E-05	6.69E-04	3.05E-03	7.27E-06	4.11E-04	1.40E-03	1.69E-06
3032	420823.56	3734507.39	4.47E-03	2.04E-02	4.46E-05	6.12E-04	2.79E-03	6.65E-06	3.76E-04	1.28E-03	1.54E-06
3033	420821.62	3734563.29	5.67E-03	2.59E-02	5.67E-05	7.78E-04	3.55E-03	8.44E-06	4.77E-04	1.63E-03	1.96E-06
3034	420817.91	3734571.85	5.86E-03	2.68E-02	5.85E-05	8.03E-04	3.66E-03	8.72E-06	4.93E-04	1.68E-03	2.02E-06

3035	420814.2	3734580.4	5.93E-03	2.71E-02	5.92E-05	8.12E-04	3.71E-03	8.82E-06	4.99E-04	1.70E-03	2.05E-06
3036	420810.49	3734588.96	5.88E-03	2.69E-02	5.88E-05	8.06E-04	3.68E-03	8.75E-06	4.95E-04	1.69E-03	2.03E-06
3037	420806.78	3734597.52	5.72E-03	2.62E-02	5.72E-05	7.84E-04	3.58E-03	8.52E-06	4.81E-04	1.64E-03	1.98E-06
3038	420794.46	3734609.69	5.62E-03	2.57E-02	5.62E-05	7.70E-04	3.51E-03	8.37E-06	4.73E-04	1.61E-03	1.94E-06
3039	420785.86	3734613.29	5.66E-03	2.59E-02	5.66E-05	7.76E-04	3.54E-03	8.42E-06	4.76E-04	1.63E-03	1.96E-06
3040	420777.26	3734616.9	5.56E-03	2.54E-02	5.56E-05	7.62E-04	3.47E-03	8.27E-06	4.68E-04	1.60E-03	1.92E-06
3041	420768.65	3734620.5	5.31E-03	2.43E-02	5.31E-05	7.28E-04	3.32E-03	7.91E-06	4.47E-04	1.53E-03	1.84E-06
3042	420760.05	3734624.11	4.92E-03	2.25E-02	4.92E-05	6.75E-04	3.08E-03	7.32E-06	4.14E-04	1.41E-03	1.70E-06
3043	420751.45	3734627.72	4.41E-03	2.02E-02	4.41E-05	6.05E-04	2.76E-03	6.57E-06	3.71E-04	1.27E-03	1.53E-06
3044	420832.75	3734537.61	4.60E-03	2.10E-02	4.60E-05	6.31E-04	2.88E-03	6.85E-06	3.87E-04	1.32E-03	1.59E-06
3045	420833.02	3734527.63	4.37E-03	2.00E-02	4.36E-05	5.98E-04	2.73E-03	6.50E-06	3.67E-04	1.25E-03	1.51E-06
3046	420833.29	3734517.64	4.06E-03	1.86E-02	4.06E-05	5.57E-04	2.54E-03	6.05E-06	3.42E-04	1.17E-03	1.40E-06
3047	420833.55	3734507.66	3.72E-03	1.70E-02	3.71E-05	5.09E-04	2.32E-03	5.53E-06	3.13E-04	1.07E-03	1.28E-06
3048	420840.87	3734565.53	4.23E-03	1.93E-02	4.23E-05	5.80E-04	2.64E-03	6.29E-06	3.56E-04	1.21E-03	1.46E-06
3049	420836.91	3734574.66	4.43E-03	2.02E-02	4.42E-05	6.07E-04	2.77E-03	6.59E-06	3.72E-04	1.27E-03	1.53E-06
3050	420832.96	3734583.79	4.55E-03	2.08E-02	4.55E-05	6.24E-04	2.85E-03	6.78E-06	3.83E-04	1.31E-03	1.57E-06
3051	420829	3734592.92	4.60E-03	2.10E-02	4.59E-05	6.30E-04	2.87E-03	6.84E-06	3.87E-04	1.32E-03	1.59E-06
3052	420825.04	3734602.05	4.56E-03	2.08E-02	4.56E-05	6.25E-04	2.85E-03	6.79E-06	3.83E-04	1.31E-03	1.58E-06
3053	420821.08	3734611.18	4.44E-03	2.03E-02	4.44E-05	6.09E-04	2.78E-03	6.61E-06	3.74E-04	1.28E-03	1.53E-06
3054	420807.95	3734624.16	4.37E-03	2.00E-02	4.37E-05	6.00E-04	2.74E-03	6.51E-06	3.68E-04	1.26E-03	1.51E-06
3055	420798.77	3734628	4.41E-03	2.02E-02	4.41E-05	6.05E-04	2.76E-03	6.57E-06	3.71E-04	1.27E-03	1.53E-06
3056	420789.59	3734631.85	4.35E-03	1.99E-02	4.35E-05	5.96E-04	2.72E-03	6.48E-06	3.66E-04	1.25E-03	1.50E-06
3057	420780.42	3734635.69	4.18E-03	1.91E-02	4.18E-05	5.73E-04	2.62E-03	6.23E-06	3.52E-04	1.20E-03	1.45E-06
3058	420771.24	3734639.54	3.91E-03	1.79E-02	3.91E-05	5.37E-04	2.45E-03	5.83E-06	3.29E-04	1.12E-03	1.35E-06
3059	420762.06	3734643.39	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.22E-03	5.30E-06	2.99E-04	1.02E-03	1.23E-06
3060	420752.89	3734647.23	3.14E-03	1.43E-02	3.14E-05	4.30E-04	1.96E-03	4.67E-06	2.64E-04	9.02E-04	1.08E-06
3061	420743.71	3734651.08	2.69E-03	1.23E-02	2.69E-05	3.68E-04	1.68E-03	4.00E-06	2.26E-04	7.72E-04	9.29E-07
3062	420861.41	3734564.82	3.15E-03	1.44E-02	3.15E-05	4.32E-04	1.97E-03	4.70E-06	2.65E-04	9.06E-04	1.09E-06
3063	420857.63	3734573.54	3.34E-03	1.53E-02	3.34E-05	4.58E-04	2.09E-03	4.97E-06	2.81E-04	9.59E-04	1.15E-06
3064	420853.85	3734582.25	3.49E-03	1.59E-02	3.48E-05	4.78E-04	2.18E-03	5.19E-06	2.93E-04	1.00E-03	1.20E-06
3065	420850.07	3734590.96	3.59E-03	1.64E-02	3.59E-05	4.92E-04	2.25E-03	5.35E-06	3.02E-04	1.03E-03	1.24E-06
3066	420846.29	3734599.68	3.65E-03	1.67E-02	3.65E-05	5.00E-04	2.28E-03	5.43E-06	3.07E-04	1.05E-03	1.26E-06
3067	420842.51	3734608.39	3.66E-03	1.67E-02	3.66E-05	5.02E-04	2.29E-03	5.45E-06	3.08E-04	1.05E-03	1.26E-06
3068	420838.74	3734617.11	3.62E-03	1.65E-02	3.62E-05	4.96E-04	2.26E-03	5.39E-06	3.04E-04	1.04E-03	1.25E-06
3069	420834.96	3734625.82	3.53E-03	1.61E-02	3.53E-05	4.84E-04	2.21E-03	5.25E-06	2.97E-04	1.01E-03	1.22E-06
3070	420822.42	3734638.21	3.49E-03	1.60E-02	3.49E-05	4.79E-04	2.18E-03	5.20E-06	2.94E-04	1.00E-03	1.21E-06
3071	420813.66	3734641.88	3.53E-03	1.61E-02	3.53E-05	4.84E-04	2.21E-03	5.25E-06	2.97E-04	1.01E-03	1.22E-06
3072	420804.9	3734645.55	3.51E-03	1.61E-02	3.51E-05	4.81E-04	2.19E-03	5.23E-06	2.95E-04	1.01E-03	1.21E-06
3073	420796.14	3734649.22	3.43E-03	1.57E-02	3.43E-05	4.71E-04	2.15E-03	5.11E-06	2.89E-04	9.87E-04	1.19E-06
3074	420787.38	3734652.9	3.29E-03	1.50E-02	3.29E-05	4.51E-04	2.06E-03	4.90E-06	2.77E-04	9.46E-04	1.14E-06
3075	420778.62	3734656.57	3.09E-03	1.41E-02	3.09E-05	4.23E-04	1.93E-03	4.60E-06	2.60E-04	8.88E-04	1.07E-06
3076	420769.86	3734660.24	2.83E-03	1.30E-02	2.83E-05	3.89E-04	1.77E-03	4.22E-06	2.38E-04	8.14E-04	9.79E-07
3077	420761.1	3734663.91	2.54E-03	1.16E-02	2.54E-05	3.49E-04	1.59E-03	3.79E-06	2.14E-04	7.31E-04	8.79E-07
3078	420752.34	3734667.58	2.23E-03	1.02E-02	2.23E-05	3.06E-04	1.40E-03	3.32E-06	1.88E-04	6.41E-04	7.71E-07
3079	420743.58	3734671.25	1.92E-03	8.78E-03	1.92E-05	2.63E-04	1.20E-03	2.86E-06	1.62E-04	5.52E-04	6.64E-07
3080	420880.86	3734566.6	2.44E-03	1.12E-02	2.44E-05	3.35E-04	1.53E-03	3.64E-06	2.06E-04	7.02E-04	8.45E-07
3081	420876.9	3734575.73	2.60E-03	1.19E-02	2.60E-05	3.57E-04	1.63E-03	3.88E-06	2.19E-04	7.48E-04	9.00E-07
3082	420872.94	3734584.86	2.74E-03	1.25E-02	2.74E-05	3.76E-04	1.71E-03	4.08E-06	2.30E-04	7.87E-04	9.47E-07
3083	420868.98	3734593.99	2.85E-03	1.30E-02	2.85E-05	3.91E-04	1.78E-03	4.24E-06	2.40E-04	8.19E-04	9.85E-07
3084	420865.03	3734603.12	2.93E-03	1.34E-02	2.93E-05	4.02E-04	1.83E-03	4.36E-06	2.47E-04	8.42E-04	1.01E-06
3085	420861.07	3734612.25	2.97E-03	1.36E-02	2.97E-05	4.07E-04	1.86E-03	4.42E-06	2.50E-04	8.54E-04	1.03E-06
3086	420857.11	3734621.38	2.98E-03	1.36E-02	2.97E-05	4.08E-04	1.86E-03	4.43E-06	2.50E-04	8.55E-04	1.03E-06
3087	420853.15	3734630.51	2.94E-03	1.35E-02	2.94E-05	4.03E-04	1.84E-03	4.38E-06	2.48E-04	8.45E-04	1.02E-06
3088	420849.19	3734639.64	2.87E-03	1.31E-02	2.87E-05	3.94E-04	1.80E-03	4.28E-06	2.42E-04	8.26E-04	9.93E-07
3089	420836.06	3734652.61	2.85E-03	1.30E-02	2.84E-05	3.90E-04	1.78E-03	4.24E-06	2.39E-04	8.18E-04	9.83E-07
3090	420826.88	3734656.46	2.88E-03	1.32E-02	2.88E-05	3.95E-04	1.80E-03	4.28E-06	2.42E-04	8.27E-04	9.95E-07
3091	420817.7	3734660.3	2.87E-03	1.31E-02	2.87E-05	3.93E-04	1.79E-03	4.27E-06	2.41E-04	8.24E-04	9.91E-07
3092	420808.53	3734664.15	2.81E-03	1.29E-02	2.81E-05	3.85E-04	1.76E-03	4.19E-06	2.37E-04	8.08E-04	9.72E-07
3093	420799.35	3734668	2.71E-03	1.24E-02	2.71E-05	3.72E-04	1.70E-03	4.04E-06	2.28E-04	7.79E-04	9.37E-07
3094	420790.17	3734671.84	2.57E-03	1.17E-02	2.56E-05	3.52E-04	1.60E-03	3.82E-06	2.16E-04	7.37E-04	8.87E-07
3095	420781	3734675.69	2.38E-03	1.09E-02	2.38E-05	3.26E-04	1.49E-03	3.54E-06	2.00E-04	6.84E-04	8.23E-07
3096	420771.82	3734679.54	2.16E-03	9.89E-03	2.16E-05	2.96E-04	1.35E-03	3.22E-06	1.82E-04	6.21E-04	7.47E-07

3097	420762.64	3734683.38	1.92E-03	8.80E-03	1.92E-05	2.64E-04	1.20E-03	2.86E-06	1.62E-04	5.53E-04	6.65E-07
3098	420753.47	3734687.23	1.68E-03	7.67E-03	1.68E-05	2.30E-04	1.05E-03	2.50E-06	1.41E-04	4.82E-04	5.80E-07
3099	420744.29	3734691.08	1.44E-03	6.58E-03	1.44E-05	1.97E-04	8.99E-04	2.14E-06	1.21E-04	4.13E-04	4.97E-07
3100	420893	3734529.23	1.76E-03	8.03E-03	1.76E-05	2.41E-04	1.10E-03	2.62E-06	1.48E-04	5.05E-04	6.07E-07
3101	420893.27	3734519.25	1.64E-03	7.48E-03	1.63E-05	2.24E-04	1.02E-03	2.43E-06	1.38E-04	4.70E-04	5.65E-07
3102	420893.53	3734509.26	1.51E-03	6.88E-03	1.50E-05	2.06E-04	9.41E-04	2.24E-06	1.27E-04	4.33E-04	5.20E-07
3103	420901.28	3734566.16	1.88E-03	8.57E-03	1.87E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
3104	420897.46	3734574.96	2.01E-03	9.21E-03	2.01E-05	2.76E-04	1.26E-03	3.00E-06	1.69E-04	5.79E-04	6.96E-07
3105	420893.64	3734583.76	2.14E-03	9.79E-03	2.14E-05	2.94E-04	1.34E-03	3.19E-06	1.80E-04	6.16E-04	7.40E-07
3106	420889.83	3734592.57	2.25E-03	1.03E-02	2.25E-05	3.08E-04	1.41E-03	3.35E-06	1.89E-04	6.46E-04	7.77E-07
3107	420886.01	3734601.37	2.33E-03	1.07E-02	2.33E-05	3.20E-04	1.46E-03	3.47E-06	1.96E-04	6.71E-04	8.07E-07
3108	420882.19	3734610.17	2.40E-03	1.10E-02	2.40E-05	3.29E-04	1.50E-03	3.58E-06	2.02E-04	6.90E-04	8.30E-07
3109	420878.37	3734618.98	2.44E-03	1.12E-02	2.44E-05	3.35E-04	1.53E-03	3.64E-06	2.06E-04	7.03E-04	8.45E-07
3110	420874.56	3734627.78	2.46E-03	1.13E-02	2.46E-05	3.38E-04	1.54E-03	3.67E-06	2.07E-04	7.08E-04	8.52E-07
3111	420870.74	3734636.58	2.46E-03	1.12E-02	2.46E-05	3.37E-04	1.54E-03	3.66E-06	2.07E-04	7.07E-04	8.50E-07
3112	420866.92	3734645.39	2.43E-03	1.11E-02	2.43E-05	3.33E-04	1.52E-03	3.62E-06	2.04E-04	6.98E-04	8.39E-07
3113	420863.11	3734654.19	2.38E-03	1.09E-02	2.37E-05	3.26E-04	1.48E-03	3.54E-06	2.00E-04	6.82E-04	8.21E-07
3114	420850.44	3734666.7	2.35E-03	1.08E-02	2.35E-05	3.23E-04	1.47E-03	3.50E-06	1.98E-04	6.76E-04	8.13E-07
3115	420841.59	3734670.41	2.38E-03	1.09E-02	2.38E-05	3.26E-04	1.49E-03	3.54E-06	2.00E-04	6.84E-04	8.23E-07
3116	420832.74	3734674.12	2.39E-03	1.09E-02	2.39E-05	3.27E-04	1.49E-03	3.55E-06	2.01E-04	6.86E-04	8.25E-07
3117	420823.89	3734677.83	2.37E-03	1.08E-02	2.36E-05	3.24E-04	1.48E-03	3.52E-06	1.99E-04	6.80E-04	8.17E-07
3118	420815.04	3734681.54	2.31E-03	1.06E-02	2.31E-05	3.17E-04	1.44E-03	3.44E-06	1.94E-04	6.63E-04	7.98E-07
3119	420806.2	3734685.25	2.22E-03	1.02E-02	2.22E-05	3.05E-04	1.39E-03	3.31E-06	1.87E-04	6.38E-04	7.68E-07
3120	420797.35	3734688.96	2.11E-03	9.63E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.77E-04	6.05E-04	7.28E-07
3121	420788.5	3734692.67	1.97E-03	8.98E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
3122	420779.65	3734696.38	1.80E-03	8.25E-03	1.80E-05	2.47E-04	1.13E-03	2.68E-06	1.52E-04	5.18E-04	6.23E-07
3123	420770.8	3734700.08	1.62E-03	7.43E-03	1.62E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.67E-04	5.61E-07
3124	420761.95	3734703.79	1.44E-03	6.59E-03	1.44E-05	1.98E-04	9.01E-04	2.14E-06	1.21E-04	4.14E-04	4.98E-07
3125	420753.1	3734707.5	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.36E-07
3126	420744.25	3734711.21	1.09E-03	5.00E-03	1.09E-05	1.50E-04	6.84E-04	1.63E-06	9.20E-05	3.14E-04	3.78E-07
3127	420912.99	3734529.76	1.37E-03	6.24E-03	1.36E-05	1.87E-04	8.54E-04	2.03E-06	1.15E-04	3.92E-04	4.72E-07
3128	420913.26	3734519.78	1.27E-03	5.82E-03	1.27E-05	1.74E-04	7.95E-04	1.89E-06	1.07E-04	3.66E-04	4.40E-07
3129	420913.53	3734509.8	1.18E-03	5.39E-03	1.18E-05	1.62E-04	7.37E-04	1.76E-06	9.92E-05	3.39E-04	4.07E-07
3130	420920.84	3734567.67	1.49E-03	6.82E-03	1.49E-05	2.05E-04	9.33E-04	2.22E-06	1.26E-04	4.29E-04	5.16E-07
3131	420916.89	3734576.8	1.60E-03	7.33E-03	1.60E-05	2.20E-04	1.00E-03	2.39E-06	1.35E-04	4.61E-04	5.54E-07
3132	420912.93	3734585.93	1.71E-03	7.83E-03	1.71E-05	2.35E-04	1.07E-03	2.55E-06	1.44E-04	4.92E-04	5.92E-07
3133	420908.97	3734595.06	1.82E-03	8.30E-03	1.81E-05	2.49E-04	1.13E-03	2.70E-06	1.53E-04	5.22E-04	6.27E-07
3134	420905.01	3734604.19	1.91E-03	8.71E-03	1.90E-05	2.61E-04	1.19E-03	2.84E-06	1.60E-04	5.48E-04	6.59E-07
3135	420901.05	3734613.32	1.97E-03	9.01E-03	1.97E-05	2.70E-04	1.23E-03	2.93E-06	1.66E-04	5.66E-04	6.81E-07
3136	420897.1	3734622.44	2.02E-03	9.24E-03	2.02E-05	2.77E-04	1.26E-03	3.01E-06	1.70E-04	5.81E-04	6.98E-07
3137	420893.14	3734631.57	2.05E-03	9.38E-03	2.05E-05	2.81E-04	1.28E-03	3.06E-06	1.73E-04	5.90E-04	7.09E-07
3138	420889.18	3734640.7	2.07E-03	9.45E-03	2.07E-05	2.83E-04	1.29E-03	3.08E-06	1.74E-04	5.94E-04	7.14E-07
3139	420885.22	3734649.83	2.06E-03	9.42E-03	2.06E-05	2.82E-04	1.29E-03	3.07E-06	1.73E-04	5.92E-04	7.12E-07
3140	420881.26	3734658.96	2.04E-03	9.31E-03	2.04E-05	2.79E-04	1.27E-03	3.03E-06	1.71E-04	5.85E-04	7.04E-07
3141	420877.3	3734668.09	2.00E-03	9.13E-03	2.00E-05	2.74E-04	1.25E-03	2.97E-06	1.68E-04	5.74E-04	6.90E-07
3142	420864.17	3734681.07	1.99E-03	9.08E-03	1.98E-05	2.72E-04	1.24E-03	2.96E-06	1.67E-04	5.71E-04	6.86E-07
3143	420854.99	3734684.91	2.01E-03	9.21E-03	2.01E-05	2.76E-04	1.26E-03	3.00E-06	1.69E-04	5.79E-04	6.96E-07
3144	420845.82	3734688.76	2.02E-03	9.24E-03	2.02E-05	2.77E-04	1.26E-03	3.01E-06	1.70E-04	5.81E-04	6.98E-07
3145	420836.64	3734692.61	2.00E-03	9.17E-03	2.00E-05	2.75E-04	1.25E-03	2.98E-06	1.69E-04	5.76E-04	6.93E-07
3146	420827.46	3734696.45	1.97E-03	8.99E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
3147	420818.28	3734700.3	1.90E-03	8.69E-03	1.90E-05	2.60E-04	1.19E-03	2.83E-06	1.60E-04	5.46E-04	6.57E-07
3148	420809.11	3734704.15	1.81E-03	8.28E-03	1.81E-05	2.48E-04	1.13E-03	2.70E-06	1.52E-04	5.20E-04	6.26E-07
3149	420799.93	3734707.99	1.70E-03	7.79E-03	1.70E-05	2.33E-04	1.06E-03	2.54E-06	1.43E-04	4.89E-04	5.89E-07
3150	420790.75	3734711.84	1.58E-03	7.21E-03	1.58E-05	2.16E-04	9.85E-04	2.35E-06	1.33E-04	4.53E-04	5.45E-07
3151	420781.58	3734715.69	1.44E-03	6.56E-03	1.43E-05	1.97E-04	8.98E-04	2.14E-06	1.21E-04	4.13E-04	4.96E-07
3152	420772.4	3734719.53	1.29E-03	5.89E-03	1.29E-05	1.77E-04	8.06E-04	1.92E-06	1.08E-04	3.70E-04	4.45E-07
3153	420763.22	3734723.38	1.14E-03	5.23E-03	1.14E-05	1.57E-04	7.15E-04	1.70E-06	9.62E-05	3.29E-04	3.95E-07
3154	420754.05	3734727.23	9.98E-04	4.56E-03	9.98E-06	1.37E-04	6.24E-04	1.49E-06	8.40E-05	2.87E-04	3.45E-07
3155	420744.87	3734731.07	8.60E-04	3.93E-03	8.60E-06	1.18E-04	5.38E-04	1.28E-06	7.24E-05	2.47E-04	2.97E-07
3156	420932.99	3734530.3	1.09E-03	4.97E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.15E-05	3.13E-04	3.76E-07
3157	420933.25	3734520.31	1.01E-03	4.64E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.54E-05	2.92E-04	3.51E-07
3158	420933.52	3734510.33	9.39E-04	4.29E-03	9.39E-06	1.29E-04	5.87E-04	1.40E-06	7.90E-05	2.70E-04	3.25E-07

3159	420941.19	3734567.4	1.19E-03	5.43E-03	1.19E-05	1.63E-04	7.43E-04	1.77E-06	1.00E-04	3.41E-04	4.11E-07
3160	420937.34	3734576.26	1.27E-03	5.82E-03	1.27E-05	1.74E-04	7.96E-04	1.89E-06	1.07E-04	3.66E-04	4.40E-07
3161	420933.5	3734585.12	1.36E-03	6.21E-03	1.36E-05	1.86E-04	8.49E-04	2.02E-06	1.14E-04	3.90E-04	4.69E-07
3162	420929.66	3734593.98	1.44E-03	6.59E-03	1.44E-05	1.98E-04	9.02E-04	2.15E-06	1.21E-04	4.14E-04	4.98E-07
3163	420925.82	3734602.84	1.52E-03	6.96E-03	1.52E-05	2.09E-04	9.51E-04	2.27E-06	1.28E-04	4.37E-04	5.26E-07
3164	420921.98	3734611.7	1.59E-03	7.28E-03	1.59E-05	2.18E-04	9.96E-04	2.37E-06	1.34E-04	4.58E-04	5.50E-07
3165	420918.14	3734620.56	1.65E-03	7.56E-03	1.65E-05	2.27E-04	1.03E-03	2.46E-06	1.39E-04	4.75E-04	5.71E-07
3166	420914.29	3734629.42	1.70E-03	7.78E-03	1.70E-05	2.33E-04	1.06E-03	2.53E-06	1.43E-04	4.89E-04	5.88E-07
3167	420910.45	3734638.28	1.73E-03	7.92E-03	1.73E-05	2.38E-04	1.08E-03	2.58E-06	1.46E-04	4.98E-04	5.99E-07
3168	420906.61	3734647.14	1.75E-03	8.00E-03	1.75E-05	2.40E-04	1.09E-03	2.61E-06	1.47E-04	5.03E-04	6.05E-07
3169	420902.77	3734656.01	1.76E-03	8.03E-03	1.76E-05	2.41E-04	1.10E-03	2.61E-06	1.48E-04	5.05E-04	6.07E-07
3170	420898.93	3734664.87	1.75E-03	8.00E-03	1.75E-05	2.40E-04	1.09E-03	2.60E-06	1.47E-04	5.03E-04	6.04E-07
3171	420895.09	3734673.73	1.73E-03	7.91E-03	1.73E-05	2.37E-04	1.08E-03	2.57E-06	1.46E-04	4.97E-04	5.98E-07
3172	420891.24	3734682.59	1.70E-03	7.77E-03	1.70E-05	2.33E-04	1.06E-03	2.53E-06	1.43E-04	4.88E-04	5.87E-07
3173	420878.5	3734695.18	1.69E-03	7.75E-03	1.69E-05	2.32E-04	1.06E-03	2.52E-06	1.43E-04	4.87E-04	5.86E-07
3174	420869.59	3734698.92	1.72E-03	7.87E-03	1.72E-05	2.36E-04	1.08E-03	2.56E-06	1.45E-04	4.95E-04	5.95E-07
3175	420860.68	3734702.65	1.73E-03	7.92E-03	1.73E-05	2.38E-04	1.08E-03	2.58E-06	1.46E-04	4.98E-04	5.99E-07
3176	420851.77	3734706.38	1.73E-03	7.90E-03	1.73E-05	2.37E-04	1.08E-03	2.57E-06	1.45E-04	4.97E-04	5.97E-07
3177	420842.87	3734710.12	1.71E-03	7.80E-03	1.71E-05	2.34E-04	1.07E-03	2.54E-06	1.44E-04	4.90E-04	5.90E-07
3178	420833.96	3734713.85	1.67E-03	7.63E-03	1.67E-05	2.29E-04	1.04E-03	2.48E-06	1.40E-04	4.79E-04	5.76E-07
3179	420825.05	3734717.58	1.61E-03	7.37E-03	1.61E-05	2.21E-04	1.01E-03	2.40E-06	1.36E-04	4.63E-04	5.57E-07
3180	420816.15	3734721.32	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.62E-04	2.29E-06	1.29E-04	4.42E-04	5.32E-07
3181	420807.24	3734725.05	1.45E-03	6.63E-03	1.45E-05	1.99E-04	9.06E-04	2.16E-06	1.22E-04	4.17E-04	5.01E-07
3182	420798.33	3734728.78	1.35E-03	6.17E-03	1.35E-05	1.85E-04	8.43E-04	2.01E-06	1.14E-04	3.88E-04	4.66E-07
3183	420789.42	3734732.52	1.24E-03	5.67E-03	1.24E-05	1.70E-04	7.75E-04	1.84E-06	1.04E-04	3.56E-04	4.28E-07
3184	420771.61	3734739.98	1.01E-03	4.63E-03	1.01E-05	1.39E-04	6.33E-04	1.51E-06	8.51E-05	2.91E-04	3.50E-07
3185	420762.7	3734743.72	8.96E-04	4.10E-03	8.96E-06	1.23E-04	5.60E-04	1.33E-06	7.54E-05	2.58E-04	3.10E-07
3186	420753.8	3734747.45	7.86E-04	3.59E-03	7.85E-06	1.08E-04	4.91E-04	1.17E-06	6.61E-05	2.26E-04	2.72E-07
3187	420744.89	3734751.18	6.83E-04	3.12E-03	6.82E-06	9.36E-05	4.27E-04	1.02E-06	5.74E-05	1.96E-04	2.36E-07
3188	420952.98	3734530.83	8.79E-04	4.02E-03	8.78E-06	1.20E-04	5.49E-04	1.31E-06	7.39E-05	2.53E-04	3.04E-07
3189	420953.24	3734520.85	8.23E-04	3.76E-03	8.23E-06	1.13E-04	5.15E-04	1.23E-06	6.93E-05	2.37E-04	2.85E-07
3190	420953.51	3734510.86	7.64E-04	3.49E-03	7.64E-06	1.05E-04	4.78E-04	1.14E-06	6.43E-05	2.20E-04	2.64E-07
3191	420960.83	3734568.74	9.73E-04	4.45E-03	9.73E-06	1.33E-04	6.09E-04	1.45E-06	8.19E-05	2.80E-04	3.36E-07
3192	420956.87	3734577.87	1.04E-03	4.77E-03	1.04E-05	1.43E-04	6.53E-04	1.55E-06	8.78E-05	3.00E-04	3.61E-07
3193	420952.91	3734587	1.12E-03	5.11E-03	1.12E-05	1.53E-04	6.99E-04	1.66E-06	9.41E-05	3.21E-04	3.86E-07
3194	420948.96	3734596.12	1.19E-03	5.44E-03	1.19E-05	1.63E-04	7.44E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
3195	420945	3734605.25	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.87E-04	1.87E-06	1.06E-04	3.62E-04	4.35E-07
3196	420941.04	3734614.38	1.32E-03	6.04E-03	1.32E-05	1.81E-04	8.26E-04	1.97E-06	1.11E-04	3.80E-04	4.57E-07
3197	420937.08	3734623.51	1.38E-03	6.30E-03	1.38E-05	1.89E-04	8.62E-04	2.05E-06	1.16E-04	3.96E-04	4.76E-07
3198	420933.12	3734632.64	1.43E-03	6.52E-03	1.43E-05	1.95E-04	8.91E-04	2.12E-06	1.20E-04	4.10E-04	4.93E-07
3199	420929.16	3734641.77	1.46E-03	6.69E-03	1.46E-05	2.01E-04	9.15E-04	2.18E-06	1.23E-04	4.21E-04	5.06E-07
3200	420925.21	3734650.9	1.49E-03	6.82E-03	1.49E-05	2.05E-04	9.33E-04	2.22E-06	1.26E-04	4.29E-04	5.16E-07
3201	420921.25	3734660.03	1.51E-03	6.89E-03	1.51E-05	2.06E-04	9.42E-04	2.24E-06	1.27E-04	4.33E-04	5.20E-07
3202	420917.29	3734669.16	1.51E-03	6.90E-03	1.51E-05	2.07E-04	9.44E-04	2.25E-06	1.27E-04	4.34E-04	5.22E-07
3203	420913.33	3734678.29	1.50E-03	6.88E-03	1.50E-05	2.06E-04	9.40E-04	2.24E-06	1.27E-04	4.32E-04	5.20E-07
3204	420909.37	3734687.42	1.49E-03	6.80E-03	1.49E-05	2.04E-04	9.30E-04	2.21E-06	1.25E-04	4.28E-04	5.14E-07
3205	420905.42	3734696.55	1.46E-03	6.68E-03	1.46E-05	2.00E-04	9.13E-04	2.17E-06	1.23E-04	4.20E-04	5.05E-07
3206	420892.28	3734709.52	1.46E-03	6.67E-03	1.46E-05	2.00E-04	9.12E-04	2.17E-06	1.23E-04	4.19E-04	5.04E-07
3207	420883.1	3734713.37	1.48E-03	6.78E-03	1.48E-05	2.03E-04	9.28E-04	2.21E-06	1.25E-04	4.26E-04	5.13E-07
3208	420873.93	3734717.22	1.50E-03	6.85E-03	1.50E-05	2.05E-04	9.37E-04	2.23E-06	1.26E-04	4.31E-04	5.18E-07
3209	420864.75	3734721.06	1.50E-03	6.86E-03	1.50E-05	2.06E-04	9.37E-04	2.23E-06	1.26E-04	4.31E-04	5.18E-07
3210	420855.57	3734724.91	1.49E-03	6.79E-03	1.48E-05	2.04E-04	9.29E-04	2.21E-06	1.25E-04	4.27E-04	5.13E-07
3211	420846.4	3734728.76	1.46E-03	6.66E-03	1.46E-05	2.00E-04	9.11E-04	2.17E-06	1.23E-04	4.19E-04	5.03E-07
3212	420837.22	3734732.6	1.41E-03	6.47E-03	1.41E-05	1.94E-04	8.84E-04	2.11E-06	1.19E-04	4.06E-04	4.89E-07
3213	420791.33	3734751.84	1.02E-03	4.67E-03	1.02E-05	1.40E-04	6.38E-04	1.52E-06	8.59E-05	2.93E-04	3.53E-07
3214	420782.16	3734755.68	9.23E-04	4.22E-03	9.22E-06	1.26E-04	5.77E-04	1.37E-06	7.76E-05	2.65E-04	3.19E-07
3215	420772.98	3734759.53	8.25E-04	3.77E-03	8.24E-06	1.13E-04	5.15E-04	1.23E-06	6.94E-05	2.37E-04	2.85E-07
3216	420763.8	3734763.38	7.29E-04	3.33E-03	7.29E-06	1.00E-04	4.56E-04	1.09E-06	6.14E-05	2.10E-04	2.52E-07
3217	420754.63	3734767.22	6.39E-04	2.92E-03	6.39E-06	8.76E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
3218	420745.45	3734771.07	5.56E-04	2.54E-03	5.55E-06	7.62E-05	3.47E-04	8.27E-07	4.68E-05	1.60E-04	1.92E-07
3219	420972.97	3734531.37	7.24E-04	3.31E-03	7.24E-06	9.92E-05	4.53E-04	1.08E-06	6.09E-05	2.08E-04	2.50E-07
3220	420973.24	3734521.38	6.78E-04	3.10E-03	6.78E-06	9.30E-05	4.24E-04	1.01E-06	5.71E-05	1.95E-04	2.34E-07

3221	420973.5	3734511.4	6.31E-04	2.89E-03	6.31E-06	8.65E-05	3.95E-04	9.39E-07	5.31E-05	1.81E-04	2.18E-07
3222	420981.12	3734568.59	8.05E-04	3.68E-03	8.05E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
3223	420977.26	3734577.49	8.60E-04	3.93E-03	8.59E-06	1.18E-04	5.38E-04	1.28E-06	7.23E-05	2.47E-04	2.97E-07
3224	420973.4	3734586.39	9.19E-04	4.20E-03	9.18E-06	1.26E-04	5.74E-04	1.37E-06	7.73E-05	2.64E-04	3.17E-07
3225	420969.54	3734595.29	9.78E-04	4.47E-03	9.77E-06	1.34E-04	6.11E-04	1.46E-06	8.22E-05	2.81E-04	3.38E-07
3226	420965.68	3734604.19	1.03E-03	4.73E-03	1.03E-05	1.42E-04	6.47E-04	1.54E-06	8.70E-05	2.97E-04	3.57E-07
3227	420961.82	3734613.09	1.09E-03	4.98E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.16E-05	3.13E-04	3.76E-07
3228	420957.96	3734621.99	1.14E-03	5.22E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.60E-05	3.28E-04	3.94E-07
3229	420954.11	3734630.89	1.19E-03	5.43E-03	1.19E-05	1.63E-04	7.43E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
3230	420950.25	3734639.79	1.23E-03	5.62E-03	1.23E-05	1.69E-04	7.69E-04	1.83E-06	1.03E-04	3.53E-04	4.25E-07
3231	420946.39	3734648.7	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.89E-04	1.88E-06	1.06E-04	3.63E-04	4.36E-07
3232	420942.53	3734657.6	1.29E-03	5.88E-03	1.29E-05	1.76E-04	8.04E-04	1.92E-06	1.08E-04	3.70E-04	4.45E-07
3233	420938.67	3734666.5	1.30E-03	5.95E-03	1.30E-05	1.78E-04	8.14E-04	1.94E-06	1.10E-04	3.74E-04	4.50E-07
3234	420934.81	3734675.4	1.31E-03	5.99E-03	1.31E-05	1.79E-04	8.19E-04	1.95E-06	1.10E-04	3.76E-04	4.52E-07
3235	420930.95	3734684.3	1.31E-03	5.99E-03	1.31E-05	1.80E-04	8.19E-04	1.95E-06	1.10E-04	3.76E-04	4.53E-07
3236	420927.09	3734693.2	1.30E-03	5.96E-03	1.30E-05	1.79E-04	8.15E-04	1.94E-06	1.10E-04	3.75E-04	4.50E-07
3237	420923.23	3734702.1	1.29E-03	5.90E-03	1.29E-05	1.77E-04	8.07E-04	1.92E-06	1.09E-04	3.71E-04	4.46E-07
3238	420919.37	3734711	1.27E-03	5.79E-03	1.27E-05	1.74E-04	7.92E-04	1.88E-06	1.07E-04	3.64E-04	4.38E-07
3239	420906.57	3734723.66	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.90E-04	1.88E-06	1.06E-04	3.63E-04	4.36E-07
3240	420897.62	3734727.41	1.28E-03	5.87E-03	1.28E-05	1.76E-04	8.03E-04	1.91E-06	1.08E-04	3.69E-04	4.44E-07
3241	420888.67	3734731.16	1.30E-03	5.94E-03	1.30E-05	1.78E-04	8.13E-04	1.94E-06	1.09E-04	3.74E-04	4.49E-07
3242	420834.99	3734753.66	1.17E-03	5.37E-03	1.17E-05	1.61E-04	7.34E-04	1.75E-06	9.88E-05	3.37E-04	4.06E-07
3243	420826.04	3734757.41	1.12E-03	5.10E-03	1.11E-05	1.53E-04	6.97E-04	1.66E-06	9.38E-05	3.20E-04	3.85E-07
3244	420817.09	3734761.16	1.05E-03	4.80E-03	1.05E-05	1.44E-04	6.56E-04	1.56E-06	8.82E-05	3.01E-04	3.62E-07
3245	420808.14	3734764.91	9.76E-04	4.46E-03	9.76E-06	1.34E-04	6.10E-04	1.45E-06	8.21E-05	2.81E-04	3.37E-07
3246	420799.2	3734768.66	8.98E-04	4.11E-03	8.98E-06	1.23E-04	5.61E-04	1.34E-06	7.56E-05	2.58E-04	3.10E-07
3247	420790.25	3734772.41	8.20E-04	3.75E-03	8.20E-06	1.12E-04	5.13E-04	1.22E-06	6.90E-05	2.36E-04	2.84E-07
3248	420781.3	3734776.16	7.41E-04	3.39E-03	7.41E-06	1.02E-04	4.63E-04	1.10E-06	6.24E-05	2.13E-04	2.56E-07
3249	420772.35	3734779.91	6.64E-04	3.03E-03	6.63E-06	9.10E-05	4.15E-04	9.88E-07	5.58E-05	1.91E-04	2.29E-07
3250	420763.41	3734783.66	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
3251	420754.46	3734787.41	5.20E-04	2.38E-03	5.20E-06	7.13E-05	3.25E-04	7.74E-07	4.37E-05	1.49E-04	1.80E-07
3252	420745.51	3734791.16	4.55E-04	2.08E-03	4.55E-06	6.24E-05	2.85E-04	6.78E-07	3.83E-05	1.31E-04	1.57E-07
3253	420992.96	3734531.9	6.05E-04	2.77E-03	6.05E-06	8.30E-05	3.78E-04	9.01E-07	5.09E-05	1.74E-04	2.09E-07
3254	420993.23	3734521.92	5.67E-04	2.59E-03	5.66E-06	7.77E-05	3.54E-04	8.44E-07	4.77E-05	1.63E-04	1.96E-07
3255	420993.5	3734511.93	5.28E-04	2.41E-03	5.27E-06	7.23E-05	3.30E-04	7.85E-07	4.44E-05	1.52E-04	1.82E-07
3256	420992.9	3734588.06	7.77E-04	3.55E-03	7.77E-06	1.07E-04	4.86E-04	1.16E-06	6.54E-05	2.23E-04	2.69E-07
3257	420988.94	3734597.19	8.28E-04	3.79E-03	8.28E-06	1.14E-04	5.18E-04	1.23E-06	6.97E-05	2.38E-04	2.86E-07
3258	420984.98	3734606.32	8.78E-04	4.01E-03	8.77E-06	1.20E-04	5.49E-04	1.31E-06	7.38E-05	2.52E-04	3.03E-07
3259	420981.03	3734615.45	9.25E-04	4.23E-03	9.25E-06	1.27E-04	5.79E-04	1.38E-06	7.79E-05	2.66E-04	3.20E-07
3260	420977.07	3734624.58	9.71E-04	4.44E-03	9.70E-06	1.33E-04	6.07E-04	1.45E-06	8.17E-05	2.79E-04	3.36E-07
3261	420973.11	3734633.71	1.01E-03	4.63E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.53E-05	2.91E-04	3.50E-07
3262	420969.15	3734642.84	1.05E-03	4.81E-03	1.05E-05	1.44E-04	6.58E-04	1.57E-06	8.86E-05	3.02E-04	3.64E-07
3263	420965.19	3734651.97	1.09E-03	4.96E-03	1.09E-05	1.49E-04	6.79E-04	1.62E-06	9.14E-05	3.12E-04	3.75E-07
3264	420961.23	3734661.1	1.11E-03	5.08E-03	1.11E-05	1.52E-04	6.95E-04	1.65E-06	9.35E-05	3.19E-04	3.84E-07
3265	420957.28	3734670.23	1.13E-03	5.16E-03	1.13E-05	1.55E-04	7.06E-04	1.68E-06	9.49E-05	3.24E-04	3.90E-07
3266	420953.32	3734679.36	1.14E-03	5.21E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.59E-05	3.28E-04	3.94E-07
3267	420949.36	3734688.49	1.15E-03	5.24E-03	1.15E-05	1.57E-04	7.17E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3268	420945.4	3734697.62	1.15E-03	5.24E-03	1.15E-05	1.57E-04	7.17E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3269	420941.44	3734706.75	1.14E-03	5.22E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.60E-05	3.28E-04	3.94E-07
3270	420937.49	3734715.87	1.12E-03	5.14E-03	1.12E-05	1.54E-04	7.03E-04	1.67E-06	9.46E-05	3.23E-04	3.89E-07
3271	420933.53	3734725	1.10E-03	5.05E-03	1.10E-05	1.51E-04	6.90E-04	1.64E-06	9.28E-05	3.17E-04	3.81E-07
3272	420883.68	3734753.37	1.15E-03	5.24E-03	1.14E-05	1.57E-04	7.16E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3273	420874.51	3734757.21	1.14E-03	5.19E-03	1.13E-05	1.56E-04	7.10E-04	1.69E-06	9.55E-05	3.26E-04	3.92E-07
3274	420865.33	3734761.06	1.12E-03	5.10E-03	1.12E-05	1.53E-04	6.98E-04	1.66E-06	9.39E-05	3.21E-04	3.86E-07
3275	420856.15	3734764.91	1.09E-03	4.97E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.15E-05	3.12E-04	3.76E-07
3276	420846.98	3734768.75	1.05E-03	4.78E-03	1.05E-05	1.43E-04	6.54E-04	1.56E-06	8.80E-05	3.01E-04	3.62E-07
3277	420837.8	3734772.6	9.97E-04	4.56E-03	9.97E-06	1.37E-04	6.24E-04	1.48E-06	8.39E-05	2.87E-04	3.45E-07
3278	420828.62	3734776.45	9.43E-04	4.31E-03	9.42E-06	1.29E-04	5.89E-04	1.40E-06	7.93E-05	2.71E-04	3.26E-07
3279	420819.45	3734780.29	8.82E-04	4.03E-03	8.82E-06	1.21E-04	5.52E-04	1.31E-06	7.42E-05	2.53E-04	3.05E-07
3280	420810.27	3734784.14	8.17E-04	3.74E-03	8.17E-06	1.12E-04	5.11E-04	1.22E-06	6.88E-05	2.35E-04	2.82E-07
3281	420801.09	3734787.98	7.52E-04	3.44E-03	7.52E-06	1.03E-04	4.70E-04	1.12E-06	6.33E-05	2.16E-04	2.60E-07
3282	420791.92	3734791.83	6.86E-04	3.14E-03	6.86E-06	9.41E-05	4.29E-04	1.02E-06	5.77E-05	1.97E-04	2.37E-07

3283	420782.74	3734795.68	6.19E-04	2.83E-03	6.19E-06	8.48E-05	3.87E-04	9.21E-07	5.21E-05	1.78E-04	2.14E-07
3284	420773.56	3734799.52	5.54E-04	2.53E-03	5.53E-06	7.59E-05	3.46E-04	8.24E-07	4.66E-05	1.59E-04	1.91E-07
3285	420764.38	3734803.37	4.92E-04	2.25E-03	4.91E-06	6.74E-05	3.07E-04	7.32E-07	4.14E-05	1.41E-04	1.70E-07
3286	420755.21	3734807.22	4.34E-04	1.98E-03	4.33E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
3287	420746.03	3734811.06	3.81E-04	1.74E-03	3.80E-06	5.22E-05	2.38E-04	5.66E-07	3.20E-05	1.09E-04	1.31E-07
3288	421012.96	3734532.43	5.10E-04	2.33E-03	5.10E-06	7.00E-05	3.19E-04	7.60E-07	4.29E-05	1.47E-04	1.76E-07
3289	421013.22	3734522.45	4.79E-04	2.19E-03	4.78E-06	6.56E-05	2.99E-04	7.12E-07	4.03E-05	1.38E-04	1.65E-07
3290	421013.49	3734512.47	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3291	421024.94	3734560.81	5.38E-04	2.46E-03	5.37E-06	7.37E-05	3.36E-04	8.00E-07	4.52E-05	1.54E-04	1.86E-07
3292	421021.07	3734569.74	5.77E-04	2.64E-03	5.76E-06	7.91E-05	3.61E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
3293	421017.19	3734578.67	6.16E-04	2.82E-03	6.15E-06	8.44E-05	3.85E-04	9.17E-07	5.18E-05	1.77E-04	2.13E-07
3294	420993.96	3734632.26	8.53E-04	3.90E-03	8.53E-06	1.17E-04	5.33E-04	1.27E-06	7.18E-05	2.45E-04	2.95E-07
3295	420990.09	3734641.19	8.87E-04	4.06E-03	8.87E-06	1.22E-04	5.55E-04	1.32E-06	7.46E-05	2.55E-04	3.07E-07
3296	420986.22	3734650.12	9.21E-04	4.21E-03	9.20E-06	1.26E-04	5.76E-04	1.37E-06	7.75E-05	2.65E-04	3.18E-07
3297	420982.35	3734659.05	9.50E-04	4.35E-03	9.50E-06	1.30E-04	5.94E-04	1.41E-06	8.00E-05	2.73E-04	3.28E-07
3298	420978.47	3734667.98	9.72E-04	4.44E-03	9.72E-06	1.33E-04	6.08E-04	1.45E-06	8.18E-05	2.79E-04	3.36E-07
3299	420974.6	3734676.91	9.88E-04	4.52E-03	9.88E-06	1.35E-04	6.18E-04	1.47E-06	8.32E-05	2.84E-04	3.42E-07
3300	420970.73	3734685.84	1.00E-03	4.57E-03	1.00E-05	1.37E-04	6.25E-04	1.49E-06	8.42E-05	2.87E-04	3.46E-07
3301	420966.86	3734694.78	1.01E-03	4.61E-03	1.01E-05	1.38E-04	6.30E-04	1.50E-06	8.48E-05	2.90E-04	3.48E-07
3302	420962.99	3734703.71	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.51E-06	8.51E-05	2.91E-04	3.49E-07
3303	420959.11	3734712.64	1.01E-03	4.61E-03	1.01E-05	1.38E-04	6.30E-04	1.50E-06	8.48E-05	2.89E-04	3.48E-07
3304	420955.24	3734721.57	9.97E-04	4.56E-03	9.97E-06	1.37E-04	6.24E-04	1.48E-06	8.39E-05	2.87E-04	3.45E-07
3305	420951.37	3734730.5	9.84E-04	4.50E-03	9.83E-06	1.35E-04	6.15E-04	1.46E-06	8.27E-05	2.83E-04	3.40E-07
3306	420934.65	3734752.12	9.70E-04	4.43E-03	9.69E-06	1.33E-04	6.06E-04	1.44E-06	8.16E-05	2.79E-04	3.35E-07
3307	420925.67	3734755.89	9.88E-04	4.52E-03	9.88E-06	1.35E-04	6.18E-04	1.47E-06	8.31E-05	2.84E-04	3.41E-07
3308	420916.69	3734759.65	1.00E-03	4.58E-03	1.00E-05	1.37E-04	6.26E-04	1.49E-06	8.43E-05	2.88E-04	3.46E-07
3309	420907.72	3734763.41	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.50E-06	8.50E-05	2.90E-04	3.49E-07
3310	420898.74	3734767.18	1.02E-03	4.66E-03	1.02E-05	1.40E-04	6.37E-04	1.52E-06	8.58E-05	2.93E-04	3.52E-07
3311	420889.76	3734770.94	1.01E-03	4.64E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.54E-05	2.92E-04	3.51E-07
3312	420880.78	3734774.7	1.00E-03	4.58E-03	1.00E-05	1.37E-04	6.26E-04	1.49E-06	8.43E-05	2.88E-04	3.46E-07
3313	420871.81	3734778.46	9.81E-04	4.49E-03	9.81E-06	1.35E-04	6.14E-04	1.46E-06	8.26E-05	2.82E-04	3.39E-07
3314	420862.83	3734782.23	9.54E-04	4.36E-03	9.53E-06	1.31E-04	5.96E-04	1.42E-06	8.03E-05	2.74E-04	3.30E-07
3315	420853.85	3734785.99	9.20E-04	4.20E-03	9.19E-06	1.26E-04	5.75E-04	1.37E-06	7.74E-05	2.64E-04	3.18E-07
3316	420844.87	3734789.75	8.78E-04	4.01E-03	8.77E-06	1.20E-04	5.49E-04	1.31E-06	7.38E-05	2.52E-04	3.03E-07
3317	420835.9	3734793.52	8.31E-04	3.80E-03	8.31E-06	1.14E-04	5.20E-04	1.24E-06	6.99E-05	2.39E-04	2.87E-07
3318	420826.92	3734797.28	7.81E-04	3.57E-03	7.80E-06	1.07E-04	4.88E-04	1.16E-06	6.57E-05	2.24E-04	2.70E-07
3319	420817.94	3734801.04	7.27E-04	3.33E-03	7.27E-06	9.97E-05	4.55E-04	1.08E-06	6.12E-05	2.09E-04	2.51E-07
3320	420808.96	3734804.81	6.72E-04	3.07E-03	6.72E-06	9.21E-05	4.20E-04	1.00E-06	5.65E-05	1.93E-04	2.32E-07
3321	420799.99	3734808.57	6.17E-04	2.82E-03	6.16E-06	8.45E-05	3.86E-04	9.18E-07	5.19E-05	1.77E-04	2.13E-07
3322	420791.01	3734812.33	5.61E-04	2.56E-03	5.61E-06	7.69E-05	3.51E-04	8.35E-07	4.72E-05	1.61E-04	1.94E-07
3323	420782.03	3734816.09	5.06E-04	2.31E-03	5.06E-06	6.94E-05	3.16E-04	7.53E-07	4.26E-05	1.45E-04	1.75E-07
3324	420773.05	3734819.86	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
3325	420764.08	3734823.62	4.07E-04	1.86E-03	4.07E-06	5.58E-05	2.55E-04	6.06E-07	3.43E-05	1.17E-04	1.41E-07
3326	420755.1	3734827.38	3.62E-04	1.65E-03	3.61E-06	4.96E-05	2.26E-04	5.38E-07	3.04E-05	1.04E-04	1.25E-07
3327	420746.12	3734831.15	3.18E-04	1.45E-03	3.17E-06	4.35E-05	1.99E-04	4.73E-07	2.67E-05	9.12E-05	1.10E-07
3328	421032.95	3734532.97	4.33E-04	1.98E-03	4.33E-06	5.94E-05	2.71E-04	6.45E-07	3.65E-05	1.25E-04	1.50E-07
3329	421033.22	3734522.98	4.06E-04	1.86E-03	4.06E-06	5.56E-05	2.54E-04	6.04E-07	3.42E-05	1.17E-04	1.40E-07
3330	421033.48	3734513	3.79E-04	1.73E-03	3.78E-06	5.19E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
3331	421064.9	3734561.93	4.00E-04	1.83E-03	4.00E-06	5.49E-05	2.50E-04	5.96E-07	3.37E-05	1.15E-04	1.38E-07
3332	421061.02	3734570.88	4.29E-04	1.96E-03	4.29E-06	5.89E-05	2.68E-04	6.39E-07	3.61E-05	1.23E-04	1.48E-07
3333	421057.14	3734579.83	4.59E-04	2.10E-03	4.58E-06	6.29E-05	2.87E-04	6.83E-07	3.86E-05	1.32E-04	1.59E-07
3334	421053.26	3734588.79	4.88E-04	2.23E-03	4.88E-06	6.70E-05	3.05E-04	7.27E-07	4.11E-05	1.40E-04	1.69E-07
3335	421049.38	3734597.74	5.18E-04	2.37E-03	5.18E-06	7.10E-05	3.24E-04	7.71E-07	4.36E-05	1.49E-04	1.79E-07
3336	421045.49	3734606.7	5.48E-04	2.50E-03	5.47E-06	7.51E-05	3.42E-04	8.15E-07	4.61E-05	1.57E-04	1.89E-07
3337	421041.61	3734615.65	5.77E-04	2.64E-03	5.76E-06	7.90E-05	3.60E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
3338	421037.73	3734624.6	6.05E-04	2.77E-03	6.05E-06	8.30E-05	3.78E-04	9.01E-07	5.09E-05	1.74E-04	2.09E-07
3339	421033.85	3734633.56	6.33E-04	2.89E-03	6.33E-06	8.68E-05	3.96E-04	9.42E-07	5.33E-05	1.82E-04	2.19E-07
3340	421029.97	3734642.51	6.59E-04	3.02E-03	6.59E-06	9.04E-05	4.12E-04	9.82E-07	5.55E-05	1.90E-04	2.28E-07
3341	421026.08	3734651.46	6.84E-04	3.13E-03	6.83E-06	9.37E-05	4.27E-04	1.02E-06	5.75E-05	1.96E-04	2.36E-07
3342	421022.2	3734660.42	7.06E-04	3.23E-03	7.05E-06	9.67E-05	4.41E-04	1.05E-06	5.94E-05	2.03E-04	2.44E-07
3343	421018.32	3734669.37	7.26E-04	3.32E-03	7.26E-06	9.95E-05	4.54E-04	1.08E-06	6.11E-05	2.09E-04	2.51E-07
3344	421014.44	3734678.33	7.47E-04	3.41E-03	7.46E-06	1.02E-04	4.67E-04	1.11E-06	6.28E-05	2.15E-04	2.58E-07

3345	420995.03	3734723.09	7.93E-04	3.63E-03	7.93E-06	1.09E-04	4.96E-04	1.18E-06	6.67E-05	2.28E-04	2.74E-07
3346	420983.38	3734749.96	7.78E-04	3.56E-03	7.78E-06	1.07E-04	4.86E-04	1.16E-06	6.55E-05	2.24E-04	2.69E-07
3347	420979.5	3734758.91	7.68E-04	3.51E-03	7.68E-06	1.05E-04	4.80E-04	1.14E-06	6.46E-05	2.21E-04	2.65E-07
3348	420975.62	3734767.86	7.56E-04	3.46E-03	7.56E-06	1.04E-04	4.73E-04	1.13E-06	6.36E-05	2.17E-04	2.61E-07
3349	420962.74	3734780.59	7.64E-04	3.49E-03	7.63E-06	1.05E-04	4.78E-04	1.14E-06	6.43E-05	2.19E-04	2.64E-07
3350	420953.74	3734784.36	7.80E-04	3.57E-03	7.80E-06	1.07E-04	4.88E-04	1.16E-06	6.56E-05	2.24E-04	2.70E-07
3351	420944.73	3734788.14	7.94E-04	3.63E-03	7.94E-06	1.09E-04	4.97E-04	1.18E-06	6.68E-05	2.28E-04	2.74E-07
3352	420935.73	3734791.91	8.05E-04	3.68E-03	8.04E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
3353	420926.73	3734795.68	8.10E-04	3.70E-03	8.10E-06	1.11E-04	5.07E-04	1.21E-06	6.82E-05	2.33E-04	2.80E-07
3354	420917.73	3734799.45	8.11E-04	3.71E-03	8.10E-06	1.11E-04	5.07E-04	1.21E-06	6.82E-05	2.33E-04	2.80E-07
3355	420908.73	3734803.23	8.06E-04	3.69E-03	8.06E-06	1.11E-04	5.04E-04	1.20E-06	6.78E-05	2.32E-04	2.79E-07
3356	420899.73	3734807	7.97E-04	3.64E-03	7.97E-06	1.09E-04	4.98E-04	1.19E-06	6.71E-05	2.29E-04	2.75E-07
3357	420890.73	3734810.77	7.82E-04	3.58E-03	7.82E-06	1.07E-04	4.89E-04	1.16E-06	6.58E-05	2.25E-04	2.70E-07
3358	420881.73	3734814.54	7.62E-04	3.48E-03	7.62E-06	1.04E-04	4.76E-04	1.13E-06	6.41E-05	2.19E-04	2.63E-07
3359	420872.73	3734818.32	7.37E-04	3.37E-03	7.37E-06	1.01E-04	4.61E-04	1.10E-06	6.20E-05	2.12E-04	2.55E-07
3360	420863.73	3734822.09	7.08E-04	3.24E-03	7.08E-06	9.71E-05	4.43E-04	1.05E-06	5.96E-05	2.03E-04	2.45E-07
3361	420854.73	3734825.86	6.75E-04	3.09E-03	6.75E-06	9.26E-05	4.22E-04	1.01E-06	5.68E-05	1.94E-04	2.33E-07
3362	420845.73	3734829.63	6.40E-04	2.92E-03	6.39E-06	8.77E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
3363	420836.73	3734833.41	6.01E-04	2.75E-03	6.01E-06	8.24E-05	3.76E-04	8.95E-07	5.06E-05	1.73E-04	2.08E-07
3364	420827.73	3734837.18	5.61E-04	2.57E-03	5.61E-06	7.70E-05	3.51E-04	8.36E-07	4.72E-05	1.61E-04	1.94E-07
3365	420818.73	3734840.95	5.20E-04	2.38E-03	5.20E-06	7.13E-05	3.25E-04	7.75E-07	4.38E-05	1.50E-04	1.80E-07
3366	420809.73	3734844.72	4.79E-04	2.19E-03	4.79E-06	6.57E-05	3.00E-04	7.13E-07	4.03E-05	1.38E-04	1.66E-07
3367	420800.73	3734848.5	4.38E-04	2.00E-03	4.38E-06	6.01E-05	2.74E-04	6.52E-07	3.69E-05	1.26E-04	1.51E-07
3368	420791.73	3734852.27	3.98E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.14E-04	1.38E-07
3369	420782.73	3734856.04	3.60E-04	1.65E-03	3.60E-06	4.94E-05	2.25E-04	5.36E-07	3.03E-05	1.04E-04	1.25E-07
3370	420773.73	3734859.81	3.24E-04	1.48E-03	3.24E-06	4.44E-05	2.02E-04	4.82E-07	2.72E-05	9.31E-05	1.12E-07
3371	420764.73	3734863.59	2.89E-04	1.32E-03	2.89E-06	3.97E-05	1.81E-04	4.31E-07	2.43E-05	8.31E-05	1.00E-07
3372	420755.73	3734867.36	2.57E-04	1.18E-03	2.57E-06	3.52E-05	1.61E-04	3.83E-07	2.16E-05	7.39E-05	8.88E-08
3373	420746.72	3734871.13	2.27E-04	1.04E-03	2.27E-06	3.11E-05	1.42E-04	3.38E-07	1.91E-05	6.52E-05	7.84E-08
3374	421072.94	3734534.04	3.25E-04	1.49E-03	3.25E-06	4.46E-05	2.03E-04	4.84E-07	2.73E-05	9.34E-05	1.12E-07
3375	421073.2	3734524.05	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.76E-05	1.05E-07
3376	421073.47	3734514.07	2.85E-04	1.30E-03	2.85E-06	3.91E-05	1.78E-04	4.25E-07	2.40E-05	8.20E-05	9.86E-08
3377	421089.32	3734598.92	3.96E-04	1.81E-03	3.96E-06	5.43E-05	2.48E-04	5.90E-07	3.33E-05	1.14E-04	1.37E-07
3378	421085.43	3734607.89	4.19E-04	1.92E-03	4.19E-06	5.74E-05	2.62E-04	6.23E-07	3.52E-05	1.20E-04	1.45E-07
3379	421081.54	3734616.86	4.40E-04	2.01E-03	4.40E-06	6.03E-05	2.75E-04	6.55E-07	3.70E-05	1.26E-04	1.52E-07
3380	421077.65	3734625.83	4.61E-04	2.11E-03	4.60E-06	6.31E-05	2.88E-04	6.86E-07	3.87E-05	1.32E-04	1.59E-07
3381	421073.76	3734634.81	4.81E-04	2.20E-03	4.81E-06	6.59E-05	3.01E-04	7.16E-07	4.05E-05	1.38E-04	1.66E-07
3382	421069.87	3734643.78	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.13E-04	7.46E-07	4.22E-05	1.44E-04	1.73E-07
3383	421065.98	3734652.75	5.21E-04	2.38E-03	5.21E-06	7.14E-05	3.26E-04	7.76E-07	4.38E-05	1.50E-04	1.80E-07
3384	421062.09	3734661.72	5.40E-04	2.47E-03	5.40E-06	7.40E-05	3.38E-04	8.04E-07	4.54E-05	1.55E-04	1.87E-07
3385	421058.2	3734670.69	5.57E-04	2.55E-03	5.57E-06	7.64E-05	3.48E-04	8.30E-07	4.69E-05	1.60E-04	1.93E-07
3386	421054.31	3734679.67	5.73E-04	2.62E-03	5.73E-06	7.86E-05	3.59E-04	8.54E-07	4.82E-05	1.65E-04	1.98E-07
3387	421050.42	3734688.64	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.75E-07	4.95E-05	1.69E-04	2.03E-07
3388	421046.53	3734697.61	6.01E-04	2.75E-03	6.01E-06	8.24E-05	3.76E-04	8.95E-07	5.06E-05	1.73E-04	2.08E-07
3389	421042.64	3734706.58	6.15E-04	2.81E-03	6.14E-06	8.43E-05	3.84E-04	9.15E-07	5.17E-05	1.77E-04	2.12E-07
3390	421038.75	3734715.55	6.26E-04	2.86E-03	6.25E-06	8.58E-05	3.91E-04	9.31E-07	5.26E-05	1.80E-04	2.16E-07
3391	421034.86	3734724.53	6.34E-04	2.90E-03	6.33E-06	8.69E-05	3.96E-04	9.43E-07	5.33E-05	1.82E-04	2.19E-07
3392	421023.19	3734751.44	6.38E-04	2.92E-03	6.38E-06	8.75E-05	3.99E-04	9.50E-07	5.37E-05	1.83E-04	2.21E-07
3393	421019.3	3734760.41	6.36E-04	2.91E-03	6.36E-06	8.72E-05	3.98E-04	9.47E-07	5.35E-05	1.83E-04	2.20E-07
3394	420990.83	3734809.05	6.16E-04	2.82E-03	6.16E-06	8.45E-05	3.85E-04	9.17E-07	5.18E-05	1.77E-04	2.13E-07
3395	420981.81	3734812.83	6.28E-04	2.87E-03	6.28E-06	8.61E-05	3.93E-04	9.35E-07	5.28E-05	1.81E-04	2.17E-07
3396	420972.79	3734816.61	6.38E-04	2.92E-03	6.38E-06	8.75E-05	3.99E-04	9.50E-07	5.37E-05	1.83E-04	2.21E-07
3397	420963.77	3734820.39	6.47E-04	2.96E-03	6.46E-06	8.86E-05	4.04E-04	9.62E-07	5.44E-05	1.86E-04	2.23E-07
3398	420954.75	3734824.17	6.53E-04	2.99E-03	6.53E-06	8.95E-05	4.08E-04	9.72E-07	5.49E-05	1.88E-04	2.26E-07
3399	420945.74	3734827.95	6.57E-04	3.00E-03	6.57E-06	9.01E-05	4.11E-04	9.78E-07	5.53E-05	1.89E-04	2.27E-07
3400	420936.72	3734831.74	6.57E-04	3.01E-03	6.57E-06	9.01E-05	4.11E-04	9.79E-07	5.53E-05	1.89E-04	2.27E-07
3401	420927.7	3734835.52	6.54E-04	2.99E-03	6.54E-06	8.97E-05	4.09E-04	9.74E-07	5.50E-05	1.88E-04	2.26E-07
3402	420918.68	3734839.3	6.47E-04	2.96E-03	6.47E-06	8.87E-05	4.04E-04	9.63E-07	5.44E-05	1.86E-04	2.24E-07
3403	420909.66	3734843.08	6.36E-04	2.91E-03	6.36E-06	8.72E-05	3.98E-04	9.47E-07	5.35E-05	1.83E-04	2.20E-07
3404	420900.64	3734846.86	6.22E-04	2.85E-03	6.22E-06	8.53E-05	3.89E-04	9.26E-07	5.24E-05	1.79E-04	2.15E-07
3405	420891.62	3734850.64	6.04E-04	2.76E-03	6.04E-06	8.28E-05	3.78E-04	8.99E-07	5.08E-05	1.74E-04	2.09E-07
3406	420882.6	3734854.42	5.83E-04	2.66E-03	5.83E-06	7.99E-05	3.64E-04	8.68E-07	4.90E-05	1.67E-04	2.01E-07

3407	420873.59	3734858.2	5.59E-04	2.56E-03	5.59E-06	7.66E-05	3.49E-04	8.32E-07	4.70E-05	1.61E-04	1.93E-07
3408	420864.57	3734861.98	5.33E-04	2.44E-03	5.32E-06	7.30E-05	3.33E-04	7.93E-07	4.48E-05	1.53E-04	1.84E-07
3409	420855.55	3734865.76	5.04E-04	2.31E-03	5.04E-06	6.91E-05	3.15E-04	7.51E-07	4.24E-05	1.45E-04	1.74E-07
3410	420846.53	3734869.54	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	3.99E-05	1.36E-04	1.64E-07
3411	420837.51	3734873.32	4.44E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.61E-07	3.74E-05	1.28E-04	1.53E-07
3412	420828.49	3734877.1	4.13E-04	1.89E-03	4.13E-06	5.66E-05	2.58E-04	6.15E-07	3.47E-05	1.19E-04	1.43E-07
3413	420819.47	3734880.88	3.82E-04	1.75E-03	3.82E-06	5.23E-05	2.39E-04	5.68E-07	3.21E-05	1.10E-04	1.32E-07
3414	420810.45	3734884.66	3.51E-04	1.60E-03	3.50E-06	4.81E-05	2.19E-04	5.22E-07	2.95E-05	1.01E-04	1.21E-07
3415	420801.44	3734888.44	3.21E-04	1.47E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.70E-05	9.21E-05	1.11E-07
3416	420792.42	3734892.22	2.92E-04	1.33E-03	2.92E-06	4.00E-05	1.83E-04	4.35E-07	2.46E-05	8.39E-05	1.01E-07
3417	420783.4	3734896	2.65E-04	1.21E-03	2.65E-06	3.64E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.16E-08
3418	420774.38	3734899.78	2.40E-04	1.10E-03	2.39E-06	3.28E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.28E-08
3419	420765.36	3734903.56	2.16E-04	9.86E-04	2.16E-06	2.96E-05	1.35E-04	3.21E-07	1.81E-05	6.20E-05	7.45E-08
3420	420756.34	3734907.34	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
3421	420747.32	3734911.12	1.73E-04	7.92E-04	1.73E-06	2.38E-05	1.08E-04	2.58E-07	1.46E-05	4.98E-05	5.99E-08
3422	421144.85	3734564.13	2.37E-04	1.08E-03	2.37E-06	3.25E-05	1.48E-04	3.53E-07	1.99E-05	6.81E-05	8.19E-08
3423	421140.95	3734573.11	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.14E-05	7.30E-05	8.78E-08
3424	421137.06	3734582.1	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.80E-05	9.38E-08
3425	421133.16	3734591.09	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.80E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3426	421129.26	3734600.08	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.92E-04	4.56E-07	2.58E-05	8.81E-05	1.06E-07
3427	421125.37	3734609.06	3.25E-04	1.48E-03	3.25E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.33E-05	1.12E-07
3428	421121.47	3734618.05	3.42E-04	1.56E-03	3.42E-06	4.69E-05	2.14E-04	5.09E-07	2.88E-05	9.83E-05	1.18E-07
3429	421117.57	3734627.04	3.59E-04	1.64E-03	3.59E-06	4.92E-05	2.24E-04	5.35E-07	3.02E-05	1.03E-04	1.24E-07
3430	421090.3	3734689.94	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
3431	421086.4	3734698.93	4.74E-04	2.17E-03	4.74E-06	6.50E-05	2.97E-04	7.06E-07	3.99E-05	1.36E-04	1.64E-07
3432	421082.51	3734707.92	4.86E-04	2.22E-03	4.86E-06	6.67E-05	3.04E-04	7.24E-07	4.09E-05	1.40E-04	1.68E-07
3433	421078.61	3734716.9	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
3434	421074.71	3734725.89	5.08E-04	2.32E-03	5.07E-06	6.96E-05	3.17E-04	7.56E-07	4.27E-05	1.46E-04	1.75E-07
3435	421063.03	3734752.85	5.28E-04	2.41E-03	5.28E-06	7.24E-05	3.30E-04	7.86E-07	4.44E-05	1.52E-04	1.82E-07
3436	421059.13	3734761.84	5.31E-04	2.43E-03	5.30E-06	7.28E-05	3.32E-04	7.90E-07	4.47E-05	1.53E-04	1.83E-07
3437	421055.23	3734770.82	5.28E-04	2.42E-03	5.28E-06	7.24E-05	3.30E-04	7.86E-07	4.44E-05	1.52E-04	1.83E-07
3438	421051.34	3734779.81	5.29E-04	2.42E-03	5.28E-06	7.25E-05	3.31E-04	7.87E-07	4.45E-05	1.52E-04	1.83E-07
3439	421047.44	3734788.8	5.28E-04	2.41E-03	5.27E-06	7.23E-05	3.30E-04	7.85E-07	4.44E-05	1.52E-04	1.82E-07
3440	421043.54	3734797.78	5.25E-04	2.40E-03	5.25E-06	7.20E-05	3.28E-04	7.82E-07	4.42E-05	1.51E-04	1.81E-07
3441	421039.65	3734806.77	5.21E-04	2.38E-03	5.21E-06	7.15E-05	3.26E-04	7.76E-07	4.39E-05	1.50E-04	1.80E-07
3442	421035.75	3734815.76	5.17E-04	2.36E-03	5.16E-06	7.08E-05	3.23E-04	7.69E-07	4.35E-05	1.48E-04	1.79E-07
3443	421031.86	3734824.74	5.11E-04	2.34E-03	5.10E-06	7.00E-05	3.19E-04	7.60E-07	4.30E-05	1.47E-04	1.76E-07
3444	421018.93	3734837.52	5.12E-04	2.34E-03	5.12E-06	7.02E-05	3.20E-04	7.62E-07	4.31E-05	1.47E-04	1.77E-07
3445	420991.82	3734848.88	5.34E-04	2.44E-03	5.34E-06	7.33E-05	3.34E-04	7.96E-07	4.50E-05	1.54E-04	1.85E-07
3446	420982.79	3734852.66	5.40E-04	2.47E-03	5.40E-06	7.40E-05	3.38E-04	8.04E-07	4.54E-05	1.55E-04	1.87E-07
3447	420973.76	3734856.45	5.44E-04	2.49E-03	5.44E-06	7.45E-05	3.40E-04	8.09E-07	4.58E-05	1.56E-04	1.88E-07
3448	420964.72	3734860.23	5.46E-04	2.49E-03	5.45E-06	7.48E-05	3.41E-04	8.12E-07	4.59E-05	1.57E-04	1.89E-07
3449	420955.69	3734864.02	5.45E-04	2.49E-03	5.45E-06	7.47E-05	3.41E-04	8.11E-07	4.58E-05	1.57E-04	1.88E-07
3450	420946.66	3734867.81	5.42E-04	2.48E-03	5.42E-06	7.43E-05	3.39E-04	8.07E-07	4.56E-05	1.56E-04	1.87E-07
3451	420937.62	3734871.59	5.37E-04	2.45E-03	5.36E-06	7.36E-05	3.35E-04	7.99E-07	4.51E-05	1.54E-04	1.85E-07
3452	420928.59	3734875.38	5.29E-04	2.42E-03	5.28E-06	7.25E-05	3.30E-04	7.87E-07	4.45E-05	1.52E-04	1.83E-07
3453	420919.56	3734879.17	5.17E-04	2.37E-03	5.17E-06	7.09E-05	3.23E-04	7.70E-07	4.35E-05	1.49E-04	1.79E-07
3454	420910.52	3734882.95	5.04E-04	2.30E-03	5.03E-06	6.90E-05	3.15E-04	7.50E-07	4.24E-05	1.45E-04	1.74E-07
3455	420901.49	3734886.74	4.87E-04	2.23E-03	4.87E-06	6.68E-05	3.05E-04	7.26E-07	4.10E-05	1.40E-04	1.68E-07
3456	420892.46	3734890.53	4.69E-04	2.15E-03	4.69E-06	6.43E-05	2.93E-04	6.98E-07	3.95E-05	1.35E-04	1.62E-07
3457	420883.42	3734894.31	4.49E-04	2.05E-03	4.49E-06	6.15E-05	2.81E-04	6.68E-07	3.78E-05	1.29E-04	1.55E-07
3458	420874.39	3734898.1	4.27E-04	1.95E-03	4.27E-06	5.85E-05	2.67E-04	6.35E-07	3.59E-05	1.23E-04	1.48E-07
3459	420865.35	3734901.89	4.04E-04	1.85E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.40E-05	1.16E-04	1.40E-07
3460	420856.32	3734905.67	3.80E-04	1.74E-03	3.80E-06	5.21E-05	2.38E-04	5.66E-07	3.20E-05	1.09E-04	1.31E-07
3461	420847.29	3734909.46	3.56E-04	1.63E-03	3.55E-06	4.88E-05	2.22E-04	5.29E-07	2.99E-05	1.02E-04	1.23E-07
3462	420838.25	3734913.24	3.31E-04	1.52E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.15E-07
3463	420829.22	3734917.03	3.07E-04	1.41E-03	3.07E-06	4.21E-05	1.92E-04	4.58E-07	2.59E-05	8.83E-05	1.06E-07
3464	420820.19	3734920.82	2.84E-04	1.30E-03	2.84E-06	3.89E-05	1.77E-04	4.23E-07	2.39E-05	8.16E-05	9.81E-08
3465	420811.15	3734924.6	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.88E-07	2.20E-05	7.50E-05	9.02E-08
3466	420802.12	3734928.39	2.40E-04	1.10E-03	2.39E-06	3.28E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.28E-08
3467	420793.09	3734932.18	2.19E-04	1.00E-03	2.19E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.31E-05	7.58E-08
3468	420784.05	3734935.96	2.01E-04	9.17E-04	2.00E-06	2.75E-05	1.25E-04	2.99E-07	1.69E-05	5.76E-05	6.93E-08

3469	420775.02	3734939.75	1.82E-04	8.34E-04	1.82E-06	2.50E-05	1.14E-04	2.72E-07	1.53E-05	5.24E-05	6.30E-08
3470	420765.99	3734943.54	1.65E-04	7.55E-04	1.65E-06	2.26E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.71E-08
3471	420756.95	3734947.32	1.49E-04	6.83E-04	1.49E-06	2.05E-05	9.34E-05	2.22E-07	1.26E-05	4.29E-05	5.16E-08
3472	420747.92	3734951.11	1.35E-04	6.15E-04	1.34E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
3473	421152.91	3734536.17	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
3474	421153.17	3734526.19	1.86E-04	8.49E-04	1.86E-06	2.55E-05	1.16E-04	2.77E-07	1.56E-05	5.34E-05	6.42E-08
3475	421153.44	3734516.2	1.76E-04	8.03E-04	1.76E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.05E-05	6.07E-08
3476	421184.82	3734565.22	1.86E-04	8.52E-04	1.86E-06	2.56E-05	1.17E-04	2.77E-07	1.57E-05	5.36E-05	6.44E-08
3477	421180.92	3734574.22	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.85E-08
3478	421177.02	3734583.22	2.11E-04	9.63E-04	2.11E-06	2.89E-05	1.32E-04	3.14E-07	1.77E-05	6.05E-05	7.28E-08
3479	421173.12	3734592.22	2.24E-04	1.03E-03	2.24E-06	3.08E-05	1.40E-04	3.34E-07	1.89E-05	6.45E-05	7.75E-08
3480	421169.22	3734601.22	2.38E-04	1.09E-03	2.38E-06	3.27E-05	1.49E-04	3.55E-07	2.01E-05	6.85E-05	8.24E-08
3481	421165.31	3734610.22	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.76E-07	2.13E-05	7.27E-05	8.74E-08
3482	421161.41	3734619.21	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.24E-05	7.66E-05	9.22E-08
3483	421157.51	3734628.21	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.70E-08
3484	421153.61	3734637.21	2.95E-04	1.35E-03	2.94E-06	4.04E-05	1.84E-04	4.38E-07	2.48E-05	8.46E-05	1.02E-07
3485	421149.71	3734646.21	3.08E-04	1.41E-03	3.08E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.85E-05	1.06E-07
3486	421145.81	3734655.21	3.21E-04	1.47E-03	3.21E-06	4.40E-05	2.01E-04	4.77E-07	2.70E-05	9.22E-05	1.11E-07
3487	421141.91	3734664.21	3.33E-04	1.52E-03	3.33E-06	4.56E-05	2.08E-04	4.96E-07	2.80E-05	9.57E-05	1.15E-07
3488	421138	3734673.21	3.45E-04	1.58E-03	3.45E-06	4.73E-05	2.16E-04	5.14E-07	2.90E-05	9.92E-05	1.19E-07
3489	421134.1	3734682.21	3.58E-04	1.64E-03	3.58E-06	4.90E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
3490	421130.2	3734691.21	3.70E-04	1.69E-03	3.69E-06	5.07E-05	2.31E-04	5.50E-07	3.11E-05	1.06E-04	1.28E-07
3491	421126.3	3734700.2	3.81E-04	1.74E-03	3.80E-06	5.22E-05	2.38E-04	5.67E-07	3.20E-05	1.09E-04	1.32E-07
3492	421122.4	3734709.2	3.91E-04	1.79E-03	3.91E-06	5.36E-05	2.45E-04	5.82E-07	3.29E-05	1.12E-04	1.35E-07
3493	421118.5	3734718.2	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.37E-05	1.15E-04	1.39E-07
3494	421091.18	3734781.2	4.43E-04	2.03E-03	4.43E-06	6.08E-05	2.77E-04	6.60E-07	3.73E-05	1.27E-04	1.53E-07
3495	421087.28	3734790.19	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.74E-05	1.28E-04	1.54E-07
3496	421083.38	3734799.19	4.45E-04	2.03E-03	4.45E-06	6.10E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
3497	421079.48	3734808.19	4.44E-04	2.03E-03	4.44E-06	6.08E-05	2.77E-04	6.61E-07	3.73E-05	1.28E-04	1.53E-07
3498	421075.58	3734817.19	4.42E-04	2.02E-03	4.42E-06	6.06E-05	2.77E-04	6.58E-07	3.72E-05	1.27E-04	1.53E-07
3499	421071.68	3734826.19	4.40E-04	2.01E-03	4.39E-06	6.02E-05	2.75E-04	6.54E-07	3.70E-05	1.26E-04	1.52E-07
3500	421067.78	3734835.19	4.36E-04	1.99E-03	4.36E-06	5.98E-05	2.73E-04	6.49E-07	3.67E-05	1.25E-04	1.51E-07
3501	421063.87	3734844.19	4.32E-04	1.97E-03	4.32E-06	5.92E-05	2.70E-04	6.43E-07	3.63E-05	1.24E-04	1.49E-07
3502	421059.97	3734853.19	4.28E-04	1.96E-03	4.27E-06	5.86E-05	2.67E-04	6.37E-07	3.60E-05	1.23E-04	1.48E-07
3503	421047.02	3734865.98	4.32E-04	1.98E-03	4.32E-06	5.92E-05	2.70E-04	6.43E-07	3.63E-05	1.24E-04	1.49E-07
3504	421037.98	3734869.77	4.39E-04	2.01E-03	4.39E-06	6.02E-05	2.74E-04	6.53E-07	3.69E-05	1.26E-04	1.52E-07
3505	421028.93	3734873.56	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3506	421019.89	3734877.35	4.51E-04	2.06E-03	4.50E-06	6.18E-05	2.82E-04	6.71E-07	3.79E-05	1.29E-04	1.56E-07
3507	420992.75	3734888.73	4.60E-04	2.10E-03	4.59E-06	6.30E-05	2.87E-04	6.84E-07	3.87E-05	1.32E-04	1.59E-07
3508	420983.7	3734892.52	4.60E-04	2.10E-03	4.60E-06	6.31E-05	2.88E-04	6.85E-07	3.87E-05	1.32E-04	1.59E-07
3509	420974.66	3734896.31	4.60E-04	2.10E-03	4.59E-06	6.30E-05	2.87E-04	6.84E-07	3.87E-05	1.32E-04	1.59E-07
3510	420965.61	3734900.1	4.57E-04	2.09E-03	4.57E-06	6.26E-05	2.86E-04	6.80E-07	3.84E-05	1.31E-04	1.58E-07
3511	420956.57	3734903.89	4.52E-04	2.07E-03	4.52E-06	6.20E-05	2.83E-04	6.73E-07	3.81E-05	1.30E-04	1.56E-07
3512	420947.52	3734907.68	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3513	420938.47	3734911.48	4.36E-04	2.00E-03	4.36E-06	5.98E-05	2.73E-04	6.50E-07	3.67E-05	1.25E-04	1.51E-07
3514	420929.43	3734915.27	4.26E-04	1.95E-03	4.25E-06	5.83E-05	2.66E-04	6.34E-07	3.58E-05	1.22E-04	1.47E-07
3515	420920.38	3734919.06	4.13E-04	1.89E-03	4.13E-06	5.66E-05	2.58E-04	6.15E-07	3.48E-05	1.19E-04	1.43E-07
3516	420911.34	3734922.85	3.99E-04	1.82E-03	3.99E-06	5.47E-05	2.49E-04	5.94E-07	3.36E-05	1.15E-04	1.38E-07
3517	420902.29	3734926.64	3.83E-04	1.75E-03	3.83E-06	5.25E-05	2.39E-04	5.70E-07	3.22E-05	1.10E-04	1.32E-07
3518	420893.25	3734930.43	3.66E-04	1.67E-03	3.66E-06	5.02E-05	2.29E-04	5.45E-07	3.08E-05	1.05E-04	1.26E-07
3519	420884.2	3734934.23	3.48E-04	1.59E-03	3.48E-06	4.77E-05	2.18E-04	5.18E-07	2.93E-05	1.00E-04	1.20E-07
3520	420875.15	3734938.02	3.30E-04	1.51E-03	3.30E-06	4.52E-05	2.06E-04	4.91E-07	2.78E-05	9.48E-05	1.14E-07
3521	420866.11	3734941.81	3.11E-04	1.42E-03	3.11E-06	4.27E-05	1.95E-04	4.63E-07	2.62E-05	8.94E-05	1.08E-07
3522	420857.06	3734945.6	2.92E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.35E-07	2.46E-05	8.40E-05	1.01E-07
3523	420848.02	3734949.39	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.07E-07	2.30E-05	7.85E-05	9.44E-08
3524	420838.97	3734953.18	2.54E-04	1.16E-03	2.54E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.31E-05	8.79E-08
3525	420829.92	3734956.98	2.36E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.79E-05	8.16E-08
3526	420820.88	3734960.77	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.29E-05	7.56E-08
3527	420811.83	3734964.56	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.99E-08
3528	420802.79	3734968.35	1.86E-04	8.51E-04	1.86E-06	2.55E-05	1.16E-04	2.77E-07	1.57E-05	5.35E-05	6.43E-08
3529	420793.74	3734972.14	1.70E-04	7.79E-04	1.70E-06	2.34E-05	1.07E-04	2.54E-07	1.43E-05	4.90E-05	5.89E-08
3530	420784.69	3734975.93	1.56E-04	7.12E-04	1.56E-06	2.13E-05	9.74E-05	2.32E-07	1.31E-05	4.47E-05	5.38E-08

3531	420775.65	3734979.73	1.42E-04	6.50E-04	1.42E-06	1.95E-05	8.88E-05	2.11E-07	1.20E-05	4.08E-05	4.91E-08
3532	420766.6	3734983.52	1.29E-04	5.91E-04	1.29E-06	1.77E-05	8.09E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
3533	420757.56	3734987.31	1.18E-04	5.38E-04	1.18E-06	1.61E-05	7.36E-05	1.75E-07	9.90E-06	3.38E-05	4.07E-08
3534	420748.51	3734991.1	1.07E-04	4.89E-04	1.07E-06	1.47E-05	6.69E-05	1.59E-07	9.00E-06	3.07E-05	3.69E-08
3535	421192.89	3734537.24	1.56E-04	7.14E-04	1.56E-06	2.14E-05	9.77E-05	2.33E-07	1.31E-05	4.49E-05	5.40E-08
3536	421193.16	3734527.26	1.48E-04	6.79E-04	1.48E-06	2.03E-05	9.28E-05	2.21E-07	1.25E-05	4.27E-05	5.13E-08
3537	421193.43	3734517.27	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.81E-05	2.10E-07	1.19E-05	4.05E-05	4.87E-08
3538	421213.08	3734593.34	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.20E-05	6.25E-08
3539	421209.18	3734602.35	1.91E-04	8.74E-04	1.91E-06	2.62E-05	1.20E-04	2.85E-07	1.61E-05	5.49E-05	6.61E-08
3540	421205.27	3734611.36	2.02E-04	9.22E-04	2.02E-06	2.76E-05	1.26E-04	3.00E-07	1.70E-05	5.79E-05	6.97E-08
3541	421201.36	3734620.36	2.12E-04	9.68E-04	2.12E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.09E-05	7.32E-08
3542	421197.46	3734629.37	2.22E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
3543	421193.55	3734638.38	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.48E-07	1.96E-05	6.71E-05	8.07E-08
3544	421189.65	3734647.39	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.64E-07	2.06E-05	7.03E-05	8.46E-08
3545	421185.74	3734656.4	2.56E-04	1.17E-03	2.56E-06	3.51E-05	1.60E-04	3.81E-07	2.15E-05	7.35E-05	8.84E-08
3546	421181.83	3734665.41	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.25E-05	7.67E-05	9.22E-08
3547	421177.93	3734674.42	2.77E-04	1.27E-03	2.77E-06	3.80E-05	1.73E-04	4.13E-07	2.33E-05	7.97E-05	9.59E-08
3548	421174.02	3734683.43	2.88E-04	1.32E-03	2.88E-06	3.95E-05	1.80E-04	4.29E-07	2.42E-05	8.28E-05	9.96E-08
3549	421170.11	3734692.44	2.99E-04	1.37E-03	2.99E-06	4.10E-05	1.87E-04	4.45E-07	2.51E-05	8.59E-05	1.03E-07
3550	421166.21	3734701.45	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
3551	421162.3	3734710.46	3.18E-04	1.45E-03	3.18E-06	4.36E-05	1.99E-04	4.73E-07	2.67E-05	9.13E-05	1.10E-07
3552	421158.4	3734719.47	3.27E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.39E-05	1.13E-07
3553	421154.49	3734728.48	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.10E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
3554	421150.58	3734737.48	3.42E-04	1.57E-03	3.42E-06	4.69E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
3555	421146.68	3734746.49	3.49E-04	1.60E-03	3.49E-06	4.79E-05	2.18E-04	5.20E-07	2.94E-05	1.00E-04	1.21E-07
3556	421142.77	3734755.5	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.22E-04	5.30E-07	2.99E-05	1.02E-04	1.23E-07
3557	421138.87	3734764.51	3.61E-04	1.65E-03	3.61E-06	4.95E-05	2.26E-04	5.38E-07	3.04E-05	1.04E-04	1.25E-07
3558	421134.96	3734773.52	3.66E-04	1.67E-03	3.66E-06	5.02E-05	2.29E-04	5.45E-07	3.08E-05	1.05E-04	1.26E-07
3559	421131.05	3734782.53	3.70E-04	1.69E-03	3.70E-06	5.07E-05	2.31E-04	5.51E-07	3.11E-05	1.06E-04	1.28E-07
3560	421127.15	3734791.54	3.73E-04	1.71E-03	3.73E-06	5.11E-05	2.33E-04	5.55E-07	3.14E-05	1.07E-04	1.29E-07
3561	421091.99	3734872.62	3.60E-04	1.64E-03	3.59E-06	4.93E-05	2.25E-04	5.35E-07	3.03E-05	1.03E-04	1.24E-07
3562	421088.09	3734881.63	3.57E-04	1.63E-03	3.57E-06	4.89E-05	2.23E-04	5.31E-07	3.00E-05	1.03E-04	1.23E-07
3563	421075.13	3734894.44	3.63E-04	1.66E-03	3.63E-06	4.98E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
3564	421066.07	3734898.23	3.70E-04	1.69E-03	3.70E-06	5.08E-05	2.31E-04	5.51E-07	3.11E-05	1.06E-04	1.28E-07
3565	421057.01	3734902.03	3.77E-04	1.72E-03	3.77E-06	5.17E-05	2.36E-04	5.61E-07	3.17E-05	1.08E-04	1.30E-07
3566	421047.96	3734905.83	3.83E-04	1.75E-03	3.82E-06	5.25E-05	2.39E-04	5.70E-07	3.22E-05	1.10E-04	1.32E-07
3567	421038.9	3734909.62	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.76E-07	3.26E-05	1.11E-04	1.34E-07
3568	421029.84	3734913.42	3.91E-04	1.79E-03	3.90E-06	5.35E-05	2.44E-04	5.81E-07	3.29E-05	1.12E-04	1.35E-07
3569	421020.79	3734917.21	3.93E-04	1.80E-03	3.93E-06	5.39E-05	2.46E-04	5.85E-07	3.31E-05	1.13E-04	1.36E-07
3570	420993.62	3734928.6	3.91E-04	1.79E-03	3.91E-06	5.36E-05	2.45E-04	5.82E-07	3.29E-05	1.12E-04	1.35E-07
3571	420984.56	3734932.4	3.89E-04	1.78E-03	3.88E-06	5.33E-05	2.43E-04	5.78E-07	3.27E-05	1.12E-04	1.34E-07
3572	420975.51	3734936.19	3.85E-04	1.76E-03	3.84E-06	5.27E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
3573	420966.45	3734939.99	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.65E-07	3.19E-05	1.09E-04	1.31E-07
3574	420957.39	3734943.79	3.72E-04	1.70E-03	3.72E-06	5.11E-05	2.33E-04	5.54E-07	3.13E-05	1.07E-04	1.29E-07
3575	420948.34	3734947.58	3.64E-04	1.66E-03	3.64E-06	4.99E-05	2.27E-04	5.41E-07	3.06E-05	1.05E-04	1.26E-07
3576	420939.28	3734951.38	3.54E-04	1.62E-03	3.54E-06	4.85E-05	2.21E-04	5.27E-07	2.98E-05	1.02E-04	1.22E-07
3577	420930.23	3734955.17	3.43E-04	1.57E-03	3.43E-06	4.70E-05	2.14E-04	5.10E-07	2.88E-05	9.85E-05	1.18E-07
3578	420921.17	3734958.97	3.30E-04	1.51E-03	3.30E-06	4.52E-05	2.06E-04	4.91E-07	2.78E-05	9.48E-05	1.14E-07
3579	420912.11	3734962.76	3.16E-04	1.45E-03	3.16E-06	4.33E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
3580	420903.06	3734966.56	3.02E-04	1.38E-03	3.02E-06	4.14E-05	1.89E-04	4.49E-07	2.54E-05	8.67E-05	1.04E-07
3581	420894	3734970.36	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
3582	420884.95	3734974.15	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.07E-07	2.30E-05	7.85E-05	9.44E-08
3583	420875.89	3734977.95	2.59E-04	1.18E-03	2.58E-06	3.54E-05	1.62E-04	3.85E-07	2.18E-05	7.43E-05	8.93E-08
3584	420866.83	3734981.74	2.44E-04	1.11E-03	2.44E-06	3.34E-05	1.52E-04	3.63E-07	2.05E-05	7.00E-05	8.42E-08
3585	420857.78	3734985.54	2.28E-04	1.04E-03	2.28E-06	3.13E-05	1.43E-04	3.40E-07	1.92E-05	6.56E-05	7.89E-08
3586	420848.72	3734989.34	2.13E-04	9.75E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.13E-05	7.37E-08
3587	420839.66	3734993.13	1.98E-04	9.07E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
3588	420830.61	3734996.93	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3589	420821.55	3735000.72	1.70E-04	7.78E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.89E-05	5.88E-08
3590	420812.5	3735004.52	1.57E-04	7.18E-04	1.57E-06	2.15E-05	9.82E-05	2.34E-07	1.32E-05	4.51E-05	5.43E-08
3591	420803.44	3735008.32	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
3592	420794.38	3735012.11	1.34E-04	6.11E-04	1.33E-06	1.83E-05	8.35E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08

3593	420785.33	3735015.91	1.23E-04	5.62E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.03E-05	3.53E-05	4.25E-08
3594	420776.27	3735019.7	1.13E-04	5.16E-04	1.13E-06	1.55E-05	7.06E-05	1.68E-07	9.50E-06	3.24E-05	3.90E-08
3595	420767.21	3735023.5	1.03E-04	4.72E-04	1.03E-06	1.42E-05	6.46E-05	1.54E-07	8.69E-06	2.97E-05	3.57E-08
3596	421232.88	3734538.31	1.30E-04	5.94E-04	1.30E-06	1.78E-05	8.12E-05	1.93E-07	1.09E-05	3.73E-05	4.49E-08
3597	421233.15	3734528.32	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.55E-05	4.26E-08
3598	421233.41	3734518.34	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.32E-05	1.74E-07	9.86E-06	3.37E-05	4.05E-08
3599	421253.05	3734594.45	1.51E-04	6.89E-04	1.51E-06	2.07E-05	9.42E-05	2.24E-07	1.27E-05	4.33E-05	5.21E-08
3600	421249.14	3734603.47	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
3601	421245.23	3734612.49	1.68E-04	7.67E-04	1.68E-06	2.30E-05	1.05E-04	2.50E-07	1.41E-05	4.82E-05	5.80E-08
3602	421241.32	3734621.5	1.76E-04	8.05E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.06E-05	6.09E-08
3603	421237.41	3734630.52	1.85E-04	8.44E-04	1.84E-06	2.53E-05	1.15E-04	2.75E-07	1.55E-05	5.30E-05	6.38E-08
3604	421233.5	3734639.54	1.93E-04	8.83E-04	1.93E-06	2.65E-05	1.21E-04	2.87E-07	1.62E-05	5.55E-05	6.67E-08
3605	421229.59	3734648.56	2.01E-04	9.19E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
3606	421225.68	3734657.58	2.09E-04	9.56E-04	2.09E-06	2.87E-05	1.31E-04	3.11E-07	1.76E-05	6.01E-05	7.23E-08
3607	421221.77	3734666.59	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
3608	421217.86	3734675.61	2.26E-04	1.03E-03	2.25E-06	3.09E-05	1.41E-04	3.36E-07	1.90E-05	6.48E-05	7.79E-08
3609	421213.95	3734684.63	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.47E-07	1.96E-05	6.71E-05	8.07E-08
3610	421210.04	3734693.65	2.41E-04	1.10E-03	2.41E-06	3.30E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.33E-08
3611	421206.13	3734702.67	2.49E-04	1.14E-03	2.49E-06	3.41E-05	1.56E-04	3.70E-07	2.09E-05	7.15E-05	8.60E-08
3612	421202.22	3734711.68	2.57E-04	1.17E-03	2.57E-06	3.52E-05	1.61E-04	3.82E-07	2.16E-05	7.38E-05	8.88E-08
3613	421198.31	3734720.7	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.16E-08
3614	421194.4	3734729.72	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.06E-07	2.30E-05	7.84E-05	9.43E-08
3615	421190.49	3734738.74	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.67E-08
3616	421186.58	3734747.76	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.24E-05	9.91E-08
3617	421182.67	3734756.77	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
3618	421178.76	3734765.79	2.99E-04	1.37E-03	2.99E-06	4.11E-05	1.87E-04	4.46E-07	2.52E-05	8.61E-05	1.03E-07
3619	421174.85	3734774.81	3.05E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.75E-05	1.05E-07
3620	421170.94	3734783.83	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
3621	421167.03	3734792.85	3.13E-04	1.43E-03	3.13E-06	4.29E-05	1.96E-04	4.66E-07	2.63E-05	8.99E-05	1.08E-07
3622	421155.3	3734819.9	3.15E-04	1.44E-03	3.15E-06	4.32E-05	1.97E-04	4.70E-07	2.65E-05	9.06E-05	1.09E-07
3623	421151.39	3734828.92	3.14E-04	1.44E-03	3.14E-06	4.31E-05	1.96E-04	4.68E-07	2.64E-05	9.03E-05	1.09E-07
3624	421147.48	3734837.94	3.13E-04	1.43E-03	3.12E-06	4.28E-05	1.95E-04	4.65E-07	2.63E-05	8.98E-05	1.08E-07
3625	421143.57	3734846.95	3.10E-04	1.42E-03	3.10E-06	4.26E-05	1.94E-04	4.62E-07	2.61E-05	8.92E-05	1.07E-07
3626	421139.66	3734855.97	3.09E-04	1.41E-03	3.08E-06	4.23E-05	1.93E-04	4.59E-07	2.60E-05	8.87E-05	1.07E-07
3627	421135.75	3734864.99	3.08E-04	1.41E-03	3.07E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
3628	421131.84	3734874.01	3.06E-04	1.40E-03	3.06E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.79E-05	1.06E-07
3629	421127.93	3734883.03	3.04E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.74E-05	1.05E-07
3630	421124.02	3734892.04	3.03E-04	1.38E-03	3.03E-06	4.15E-05	1.89E-04	4.51E-07	2.55E-05	8.70E-05	1.05E-07
3631	421085.1	3734930.5	3.19E-04	1.46E-03	3.19E-06	4.38E-05	2.00E-04	4.75E-07	2.69E-05	9.17E-05	1.10E-07
3632	421076.03	3734934.3	3.25E-04	1.48E-03	3.25E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.33E-05	1.12E-07
3633	421066.97	3734938.1	3.29E-04	1.51E-03	3.29E-06	4.51E-05	2.06E-04	4.90E-07	2.77E-05	9.46E-05	1.14E-07
3634	421057.9	3734941.9	3.33E-04	1.52E-03	3.33E-06	4.56E-05	2.08E-04	4.95E-07	2.80E-05	9.56E-05	1.15E-07
3635	421048.84	3734945.7	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.64E-05	1.16E-07
3636	421039.77	3734949.5	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.01E-07	2.83E-05	9.68E-05	1.16E-07
3637	421030.71	3734953.29	3.37E-04	1.54E-03	3.37E-06	4.63E-05	2.11E-04	5.02E-07	2.84E-05	9.70E-05	1.17E-07
3638	421021.64	3734957.09	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.02E-07	2.84E-05	9.69E-05	1.17E-07
3639	420994.45	3734968.49	3.30E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.49E-05	1.14E-07
3640	420985.38	3734972.29	3.26E-04	1.49E-03	3.25E-06	4.46E-05	2.04E-04	4.85E-07	2.74E-05	9.36E-05	1.13E-07
3641	420976.32	3734976.09	3.20E-04	1.46E-03	3.19E-06	4.38E-05	2.00E-04	4.76E-07	2.69E-05	9.18E-05	1.10E-07
3642	420967.25	3734979.89	3.13E-04	1.43E-03	3.13E-06	4.29E-05	1.95E-04	4.65E-07	2.63E-05	8.98E-05	1.08E-07
3643	420958.19	3734983.69	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.56E-05	8.76E-05	1.05E-07
3644	420949.12	3734987.49	2.96E-04	1.35E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.51E-05	1.02E-07
3645	420940.06	3734991.29	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.23E-05	9.89E-08
3646	420930.99	3734995.09	2.76E-04	1.26E-03	2.76E-06	3.78E-05	1.72E-04	4.11E-07	2.32E-05	7.93E-05	9.53E-08
3647	420921.93	3734998.89	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.66E-04	3.94E-07	2.23E-05	7.61E-05	9.15E-08
3648	420912.86	3735002.69	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.27E-05	8.75E-08
3649	420903.8	3735006.49	2.41E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.34E-08
3650	420894.73	3735010.29	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.59E-05	7.93E-08
3651	420885.67	3735014.09	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
3652	420876.6	3735017.89	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
3653	420867.54	3735021.69	1.93E-04	8.84E-04	1.93E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.56E-05	6.68E-08
3654	420776.89	3735059.68	9.14E-05	4.18E-04	9.13E-07	1.25E-05	5.71E-05	1.36E-07	7.69E-06	2.63E-05	3.16E-08

3655	420767.82	3735063.48	8.38E-05	3.83E-04	8.38E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.90E-08
3656	420758.76	3735067.28	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.14E-07	6.47E-06	2.21E-05	2.66E-08
3657	420749.69	3735071.08	7.06E-05	3.23E-04	7.05E-07	9.67E-06	4.41E-05	1.05E-07	5.94E-06	2.03E-05	2.44E-08
3658	421272.86	3734539.38	1.09E-04	4.96E-04	1.09E-06	1.49E-05	6.79E-05	1.62E-07	9.13E-06	3.12E-05	3.75E-08
3659	421273.13	3734529.39	1.03E-04	4.73E-04	1.03E-06	1.42E-05	6.46E-05	1.54E-07	8.70E-06	2.97E-05	3.57E-08
3660	421273.4	3734519.41	9.84E-05	4.50E-04	9.84E-07	1.35E-05	6.15E-05	1.46E-07	8.28E-06	2.83E-05	3.40E-08
3661	421304.76	3734568.48	1.05E-04	4.82E-04	1.05E-06	1.45E-05	6.59E-05	1.57E-07	8.87E-06	3.03E-05	3.64E-08
3662	421285.19	3734613.61	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.59E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
3663	421281.28	3734622.63	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
3664	421277.36	3734631.66	1.52E-04	6.97E-04	1.52E-06	2.09E-05	9.52E-05	2.27E-07	1.28E-05	4.38E-05	5.26E-08
3665	421273.45	3734640.68	1.60E-04	7.31E-04	1.60E-06	2.19E-05	9.99E-05	2.38E-07	1.34E-05	4.59E-05	5.52E-08
3666	421269.54	3734649.71	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
3667	421265.63	3734658.73	1.74E-04	7.95E-04	1.74E-06	2.38E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3668	421261.71	3734667.76	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
3669	421257.8	3734676.79	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.47E-08
3670	421253.89	3734685.81	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.88E-07	1.63E-05	5.57E-05	6.69E-08
3671	421249.97	3734694.84	2.00E-04	9.14E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
3672	421246.06	3734703.86	2.06E-04	9.43E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.73E-05	5.92E-05	7.12E-08
3673	421242.15	3734712.89	2.12E-04	9.70E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.78E-05	6.09E-05	7.33E-08
3674	421238.23	3734721.91	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
3675	421234.32	3734730.94	2.23E-04	1.02E-03	2.23E-06	3.06E-05	1.40E-04	3.33E-07	1.88E-05	6.42E-05	7.72E-08
3676	421230.41	3734739.97	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.58E-05	7.91E-08
3677	421226.49	3734748.99	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
3678	421222.58	3734758.02	2.41E-04	1.10E-03	2.40E-06	3.30E-05	1.50E-04	3.58E-07	2.02E-05	6.91E-05	8.31E-08
3679	421218.67	3734767.04	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.65E-07	2.06E-05	7.04E-05	8.46E-08
3680	421214.75	3734776.07	2.50E-04	1.14E-03	2.50E-06	3.43E-05	1.56E-04	3.72E-07	2.10E-05	7.19E-05	8.65E-08
3681	421210.84	3734785.09	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.59E-04	3.80E-07	2.15E-05	7.33E-05	8.81E-08
3682	421206.93	3734794.12	2.59E-04	1.19E-03	2.59E-06	3.55E-05	1.62E-04	3.86E-07	2.18E-05	7.45E-05	8.96E-08
3683	421195.19	3734821.2	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.24E-05	7.67E-05	9.22E-08
3684	421191.28	3734830.22	2.68E-04	1.23E-03	2.68E-06	3.67E-05	1.68E-04	3.99E-07	2.25E-05	7.70E-05	9.26E-08
3685	421187.36	3734839.25	2.69E-04	1.23E-03	2.68E-06	3.68E-05	1.68E-04	4.00E-07	2.26E-05	7.72E-05	9.28E-08
3686	421183.45	3734848.27	2.68E-04	1.23E-03	2.68E-06	3.68E-05	1.68E-04	4.00E-07	2.26E-05	7.71E-05	9.28E-08
3687	421179.54	3734857.3	2.68E-04	1.23E-03	2.68E-06	3.67E-05	1.68E-04	3.99E-07	2.25E-05	7.70E-05	9.26E-08
3688	421175.62	3734866.32	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.98E-07	2.25E-05	7.68E-05	9.24E-08
3689	421171.71	3734875.35	2.66E-04	1.22E-03	2.66E-06	3.65E-05	1.66E-04	3.96E-07	2.24E-05	7.65E-05	9.20E-08
3690	421167.8	3734884.38	2.65E-04	1.21E-03	2.65E-06	3.64E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.17E-08
3691	421163.88	3734893.4	2.64E-04	1.21E-03	2.64E-06	3.63E-05	1.65E-04	3.94E-07	2.22E-05	7.60E-05	9.14E-08
3692	421159.97	3734902.43	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
3693	421156.06	3734911.45	2.62E-04	1.20E-03	2.62E-06	3.59E-05	1.64E-04	3.90E-07	2.21E-05	7.53E-05	9.06E-08
3694	421152.14	3734920.48	2.61E-04	1.20E-03	2.61E-06	3.58E-05	1.63E-04	3.89E-07	2.20E-05	7.51E-05	9.03E-08
3695	421148.23	3734929.5	2.61E-04	1.19E-03	2.60E-06	3.57E-05	1.63E-04	3.88E-07	2.19E-05	7.49E-05	9.01E-08
3696	421144.32	3734938.53	2.60E-04	1.19E-03	2.60E-06	3.56E-05	1.62E-04	3.87E-07	2.19E-05	7.46E-05	8.98E-08
3697	421131.33	3734951.36	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
3698	421122.26	3734955.16	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.00E-07	2.26E-05	7.73E-05	9.30E-08
3699	421085.97	3734970.37	2.84E-04	1.30E-03	2.84E-06	3.90E-05	1.78E-04	4.23E-07	2.39E-05	8.17E-05	9.83E-08
3700	421076.9	3734974.17	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.24E-05	9.91E-08
3701	421067.82	3734977.98	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.81E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3702	421058.75	3734981.78	2.90E-04	1.33E-03	2.90E-06	3.97E-05	1.81E-04	4.32E-07	2.44E-05	8.33E-05	1.00E-07
3703	421049.68	3734985.58	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
3704	421040.6	3734989.39	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.81E-04	4.32E-07	2.44E-05	8.34E-05	1.00E-07
3705	421031.53	3734993.19	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.81E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3706	421022.46	3734996.99	2.87E-04	1.31E-03	2.86E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.23E-05	9.90E-08
3707	420995.24	3735008.4	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.10E-07	2.32E-05	7.91E-05	9.51E-08
3708	420986.17	3735012.2	2.70E-04	1.23E-03	2.70E-06	3.70E-05	1.69E-04	4.02E-07	2.27E-05	7.75E-05	9.32E-08
3709	420977.1	3735016.01	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.58E-05	9.11E-08
3710	420968.02	3735019.81	2.57E-04	1.17E-03	2.57E-06	3.52E-05	1.61E-04	3.82E-07	2.16E-05	7.38E-05	8.87E-08
3711	420913.59	3735042.63	2.04E-04	9.33E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.86E-05	7.05E-08
3712	420904.52	3735046.43	1.94E-04	8.88E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.58E-05	6.71E-08
3713	420895.44	3735050.23	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3714	420886.37	3735054.03	1.74E-04	7.96E-04	1.74E-06	2.39E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3715	420877.3	3735057.84	1.64E-04	7.50E-04	1.64E-06	2.25E-05	1.03E-04	2.44E-07	1.38E-05	4.71E-05	5.67E-08
3716	420868.22	3735061.64	1.54E-04	7.05E-04	1.54E-06	2.11E-05	9.64E-05	2.30E-07	1.30E-05	4.43E-05	5.33E-08

3717	420859.15	3735065.44	1.44E-04	6.60E-04	1.44E-06	1.98E-05	9.02E-05	2.15E-07	1.21E-05	4.15E-05	4.99E-08
3718	420850.08	3735069.24	1.35E-04	6.15E-04	1.35E-06	1.85E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
3719	420841.01	3735073.05	1.25E-04	5.72E-04	1.25E-06	1.72E-05	7.82E-05	1.86E-07	1.05E-05	3.60E-05	4.32E-08
3720	420831.93	3735076.85	1.16E-04	5.33E-04	1.16E-06	1.60E-05	7.28E-05	1.73E-07	9.80E-06	3.35E-05	4.03E-08
3721	421313.12	3734530.46	8.74E-05	3.99E-04	8.73E-07	1.20E-05	5.46E-05	1.30E-07	7.35E-06	2.51E-05	3.02E-08
3722	421313.38	3734520.48	8.34E-05	3.81E-04	8.34E-07	1.14E-05	5.21E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
3723	421344.74	3734569.56	8.86E-05	4.05E-04	8.86E-07	1.21E-05	5.54E-05	1.32E-07	7.46E-06	2.55E-05	3.06E-08
3724	421340.82	3734578.59	9.28E-05	4.24E-04	9.28E-07	1.27E-05	5.80E-05	1.38E-07	7.81E-06	2.67E-05	3.21E-08
3725	421336.9	3734587.62	9.77E-05	4.47E-04	9.76E-07	1.34E-05	6.11E-05	1.45E-07	8.22E-06	2.81E-05	3.38E-08
3726	421332.99	3734596.66	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
3727	421329.07	3734605.69	1.08E-04	4.93E-04	1.08E-06	1.48E-05	6.74E-05	1.60E-07	9.07E-06	3.10E-05	3.72E-08
3728	421325.16	3734614.72	1.13E-04	5.17E-04	1.13E-06	1.55E-05	7.08E-05	1.68E-07	9.52E-06	3.25E-05	3.91E-08
3729	421321.24	3734623.75	1.19E-04	5.44E-04	1.19E-06	1.63E-05	7.44E-05	1.77E-07	1.00E-05	3.42E-05	4.11E-08
3730	421317.32	3734632.79	1.25E-04	5.71E-04	1.25E-06	1.71E-05	7.81E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
3731	421313.41	3734641.82	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.21E-05	1.95E-07	1.10E-05	3.77E-05	4.54E-08
3732	421309.49	3734650.85	1.38E-04	6.29E-04	1.37E-06	1.89E-05	8.60E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
3733	421305.58	3734659.88	1.44E-04	6.58E-04	1.44E-06	1.97E-05	8.99E-05	2.14E-07	1.21E-05	4.13E-05	4.97E-08
3734	421301.66	3734668.91	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.19E-08
3735	421278.16	3734723.11	1.83E-04	8.37E-04	1.83E-06	2.51E-05	1.14E-04	2.73E-07	1.54E-05	5.26E-05	6.33E-08
3736	421274.25	3734732.14	1.88E-04	8.60E-04	1.88E-06	2.58E-05	1.18E-04	2.80E-07	1.58E-05	5.40E-05	6.50E-08
3737	421270.33	3734741.17	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.21E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
3738	421266.42	3734750.2	1.97E-04	9.02E-04	1.97E-06	2.71E-05	1.23E-04	2.94E-07	1.66E-05	5.67E-05	6.82E-08
3739	421262.5	3734759.24	2.02E-04	9.23E-04	2.02E-06	2.77E-05	1.26E-04	3.00E-07	1.70E-05	5.80E-05	6.97E-08
3740	421258.58	3734768.27	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.73E-05	5.89E-05	7.09E-08
3741	421254.67	3734777.3	2.09E-04	9.57E-04	2.09E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.02E-05	7.24E-08
3742	421250.75	3734786.33	2.13E-04	9.76E-04	2.13E-06	2.92E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.37E-08
3743	421246.84	3734795.37	2.17E-04	9.91E-04	2.17E-06	2.97E-05	1.36E-04	3.23E-07	1.82E-05	6.23E-05	7.49E-08
3744	421235.09	3734822.46	2.25E-04	1.03E-03	2.25E-06	3.08E-05	1.41E-04	3.35E-07	1.89E-05	6.47E-05	7.78E-08
3745	421231.17	3734831.49	2.27E-04	1.04E-03	2.27E-06	3.11E-05	1.42E-04	3.38E-07	1.91E-05	6.53E-05	7.85E-08
3746	421227.26	3734840.53	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.59E-05	7.92E-08
3747	421223.34	3734849.56	2.31E-04	1.06E-03	2.31E-06	3.16E-05	1.44E-04	3.44E-07	1.94E-05	6.63E-05	7.98E-08
3748	421219.42	3734858.59	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
3749	421215.51	3734867.62	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.03E-08
3750	421211.59	3734876.66	2.32E-04	1.06E-03	2.32E-06	3.19E-05	1.45E-04	3.46E-07	1.95E-05	6.68E-05	8.03E-08
3751	421207.68	3734885.69	2.33E-04	1.06E-03	2.32E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
3752	421203.76	3734894.72	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.69E-05	8.04E-08
3753	421199.84	3734903.75	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
3754	421195.93	3734912.78	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.03E-08
3755	421192.01	3734921.82	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
3756	421188.1	3734930.85	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
3757	421184.18	3734939.88	2.30E-04	1.05E-03	2.30E-06	3.16E-05	1.44E-04	3.43E-07	1.94E-05	6.62E-05	7.96E-08
3758	421180.26	3734948.91	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.60E-05	7.94E-08
3759	421176.35	3734957.95	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.92E-05	6.57E-05	7.91E-08
3760	421172.43	3734966.98	2.28E-04	1.04E-03	2.27E-06	3.12E-05	1.42E-04	3.39E-07	1.91E-05	6.54E-05	7.87E-08
3761	421159.44	3734979.82	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.44E-04	3.44E-07	1.94E-05	6.64E-05	7.99E-08
3762	421150.36	3734983.62	2.35E-04	1.08E-03	2.35E-06	3.23E-05	1.47E-04	3.50E-07	1.98E-05	6.76E-05	8.13E-08
3763	421141.28	3734987.43	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.87E-05	8.27E-08
3764	421132.2	3734991.23	2.43E-04	1.11E-03	2.43E-06	3.33E-05	1.52E-04	3.61E-07	2.04E-05	6.97E-05	8.39E-08
3765	421123.12	3734995.04	2.46E-04	1.12E-03	2.46E-06	3.37E-05	1.54E-04	3.66E-07	2.07E-05	7.06E-05	8.50E-08
3766	421086.8	3735010.26	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.28E-05	8.75E-08
3767	421077.72	3735014.07	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.13E-05	7.29E-05	8.76E-08
3768	421068.64	3735017.87	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.28E-05	8.75E-08
3769	421059.56	3735021.68	2.52E-04	1.15E-03	2.52E-06	3.45E-05	1.58E-04	3.75E-07	2.12E-05	7.24E-05	8.71E-08
3770	421014.17	3735040.71	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.29E-08
3771	421005.09	3735044.51	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.47E-04	3.51E-07	1.98E-05	6.77E-05	8.15E-08
3772	420996.01	3735048.32	2.31E-04	1.06E-03	2.31E-06	3.16E-05	1.44E-04	3.44E-07	1.94E-05	6.63E-05	7.98E-08
3773	420986.93	3735052.12	2.25E-04	1.03E-03	2.25E-06	3.09E-05	1.41E-04	3.35E-07	1.90E-05	6.47E-05	7.79E-08
3774	420977.85	3735055.93	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.30E-05	7.57E-08
3775	420968.77	3735059.73	2.12E-04	9.71E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.79E-05	6.10E-05	7.34E-08
3776	420959.69	3735063.54	2.05E-04	9.39E-04	2.05E-06	2.81E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.09E-08
3777	420950.61	3735067.35	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.85E-08
3778	420941.53	3735071.15	1.91E-04	8.72E-04	1.91E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.48E-05	6.59E-08

3779	420932.45	3735074.96	1.83E-04	8.36E-04	1.83E-06	2.51E-05	1.14E-04	2.72E-07	1.54E-05	5.26E-05	6.32E-08
3780	420923.37	3735078.76	1.75E-04	7.99E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.02E-05	6.04E-08
3781	420914.29	3735082.57	1.66E-04	7.61E-04	1.66E-06	2.28E-05	1.04E-04	2.48E-07	1.40E-05	4.78E-05	5.75E-08
3782	420905.22	3735086.37	1.58E-04	7.22E-04	1.58E-06	2.17E-05	9.88E-05	2.35E-07	1.33E-05	4.54E-05	5.46E-08
3783	420896.14	3735090.18	1.50E-04	6.84E-04	1.50E-06	2.05E-05	9.35E-05	2.23E-07	1.26E-05	4.30E-05	5.17E-08
3784	420887.06	3735093.98	1.41E-04	6.47E-04	1.41E-06	1.94E-05	8.84E-05	2.11E-07	1.19E-05	4.06E-05	4.89E-08
3785	420877.98	3735097.79	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.60E-08
3786	420868.9	3735101.6	1.25E-04	5.72E-04	1.25E-06	1.71E-05	7.82E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
3787	420859.82	3735105.4	1.17E-04	5.34E-04	1.17E-06	1.60E-05	7.31E-05	1.74E-07	9.83E-06	3.36E-05	4.04E-08
3788	420850.74	3735109.21	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.82E-05	1.62E-07	9.18E-06	3.13E-05	3.77E-08
3789	420841.66	3735113.01	1.02E-04	4.65E-04	1.02E-06	1.39E-05	6.36E-05	1.51E-07	8.55E-06	2.92E-05	3.51E-08
3790	420832.58	3735116.82	9.49E-05	4.34E-04	9.48E-07	1.30E-05	5.93E-05	1.41E-07	7.98E-06	2.73E-05	3.28E-08
3791	420823.5	3735120.62	8.85E-05	4.04E-04	8.84E-07	1.21E-05	5.53E-05	1.32E-07	7.44E-06	2.54E-05	3.06E-08
3792	421369.04	3734606.79	9.15E-05	4.18E-04	9.15E-07	1.25E-05	5.72E-05	1.36E-07	7.70E-06	2.63E-05	3.16E-08
3793	421365.12	3734615.83	9.60E-05	4.39E-04	9.60E-07	1.32E-05	6.00E-05	1.43E-07	8.08E-06	2.76E-05	3.32E-08
3794	421361.21	3734624.87	1.01E-04	4.61E-04	1.01E-06	1.38E-05	6.30E-05	1.50E-07	8.48E-06	2.90E-05	3.48E-08
3795	421357.29	3734633.91	1.06E-04	4.83E-04	1.06E-06	1.45E-05	6.60E-05	1.57E-07	8.88E-06	3.03E-05	3.65E-08
3796	421353.37	3734642.94	1.10E-04	5.05E-04	1.10E-06	1.51E-05	6.91E-05	1.64E-07	9.29E-06	3.17E-05	3.82E-08
3797	421349.45	3734651.98	1.15E-04	5.27E-04	1.15E-06	1.58E-05	7.21E-05	1.72E-07	9.70E-06	3.31E-05	3.98E-08
3798	421345.53	3734661.02	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.52E-05	1.79E-07	1.01E-05	3.45E-05	4.15E-08
3799	421341.61	3734670.06	1.25E-04	5.73E-04	1.25E-06	1.72E-05	7.83E-05	1.86E-07	1.05E-05	3.60E-05	4.33E-08
3800	421337.69	3734679.1	1.30E-04	5.97E-04	1.30E-06	1.79E-05	8.16E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
3801	421333.78	3734688.13	1.36E-04	6.20E-04	1.36E-06	1.86E-05	8.48E-05	2.02E-07	1.14E-05	3.90E-05	4.69E-08
3802	421329.86	3734697.17	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.80E-05	2.10E-07	1.18E-05	4.04E-05	4.86E-08
3803	421325.94	3734706.21	1.45E-04	6.65E-04	1.45E-06	1.99E-05	9.10E-05	2.17E-07	1.22E-05	4.18E-05	5.03E-08
3804	421322.02	3734715.25	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
3805	421318.1	3734724.29	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.66E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
3806	421314.18	3734733.32	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.93E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
3807	421310.26	3734742.36	1.63E-04	7.45E-04	1.63E-06	2.23E-05	1.02E-04	2.43E-07	1.37E-05	4.68E-05	5.63E-08
3808	421306.35	3734751.4	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
3809	421302.43	3734760.44	1.71E-04	7.80E-04	1.70E-06	2.34E-05	1.07E-04	2.54E-07	1.43E-05	4.90E-05	5.89E-08
3810	421275	3734823.71	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
3811	421271.08	3734832.74	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
3812	421267.16	3734841.78	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.84E-08
3813	421263.24	3734850.82	1.99E-04	9.12E-04	1.99E-06	2.73E-05	1.25E-04	2.97E-07	1.68E-05	5.73E-05	6.89E-08
3814	421259.32	3734859.86	2.01E-04	9.18E-04	2.01E-06	2.75E-05	1.26E-04	2.99E-07	1.69E-05	5.77E-05	6.94E-08
3815	421255.41	3734868.9	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
3816	421251.49	3734877.93	2.03E-04	9.28E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
3817	421247.57	3734886.97	2.04E-04	9.31E-04	2.04E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.85E-05	7.04E-08
3818	421243.65	3734896.01	2.04E-04	9.34E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.87E-05	7.06E-08
3819	421239.73	3734905.05	2.04E-04	9.35E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.88E-05	7.07E-08
3820	421235.81	3734914.09	2.05E-04	9.36E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.88E-05	7.07E-08
3821	421231.89	3734923.12	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3822	421227.98	3734932.16	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3823	421224.06	3734941.2	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3824	421220.14	3734950.24	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.73E-05	5.89E-05	7.09E-08
3825	421216.22	3734959.28	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3826	421212.3	3734968.31	2.05E-04	9.36E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.88E-05	7.07E-08
3827	421208.38	3734977.35	2.04E-04	9.34E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.87E-05	7.06E-08
3828	421204.46	3734986.39	2.04E-04	9.31E-04	2.04E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.85E-05	7.04E-08
3829	421200.55	3734995.43	2.03E-04	9.27E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
3830	421187.54	3735008.27	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
3831	421178.46	3735012.08	2.09E-04	9.54E-04	2.09E-06	2.86E-05	1.31E-04	3.11E-07	1.76E-05	6.00E-05	7.21E-08
3832	421169.37	3735015.89	2.12E-04	9.69E-04	2.12E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.09E-05	7.32E-08
3833	421160.29	3735019.7	2.15E-04	9.83E-04	2.15E-06	2.95E-05	1.34E-04	3.20E-07	1.81E-05	6.18E-05	7.43E-08
3834	421151.2	3735023.51	2.18E-04	9.95E-04	2.18E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.52E-08
3835	421142.12	3735027.32	2.20E-04	1.01E-03	2.20E-06	3.02E-05	1.38E-04	3.28E-07	1.85E-05	6.33E-05	7.61E-08
3836	421133.03	3735031.12	2.22E-04	1.02E-03	2.22E-06	3.04E-05	1.39E-04	3.31E-07	1.87E-05	6.38E-05	7.67E-08
3837	421123.95	3735034.93	2.23E-04	1.02E-03	2.23E-06	3.06E-05	1.40E-04	3.33E-07	1.88E-05	6.42E-05	7.72E-08
3838	421087.6	3735050.16	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.73E-08
3839	421078.52	3735053.97	2.23E-04	1.02E-03	2.23E-06	3.05E-05	1.39E-04	3.32E-07	1.87E-05	6.40E-05	7.70E-08
3840	421069.43	3735057.78	2.21E-04	1.01E-03	2.21E-06	3.04E-05	1.38E-04	3.30E-07	1.86E-05	6.36E-05	7.65E-08

3841	421060.35	3735061.59	2.20E-04	1.01E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.60E-08
3842	421051.26	3735065.4	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
3843	421042.18	3735069.2	2.16E-04	9.86E-04	2.16E-06	2.96E-05	1.35E-04	3.21E-07	1.81E-05	6.20E-05	7.45E-08
3844	421033.09	3735073.01	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
3845	421024.01	3735076.82	2.10E-04	9.59E-04	2.10E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.03E-05	7.25E-08
3846	421014.92	3735080.63	2.06E-04	9.41E-04	2.06E-06	2.82E-05	1.29E-04	3.06E-07	1.73E-05	5.91E-05	7.11E-08
3847	421005.84	3735084.44	2.01E-04	9.20E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
3848	420996.75	3735088.24	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
3849	420987.67	3735092.05	1.91E-04	8.72E-04	1.91E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.48E-05	6.59E-08
3850	420978.58	3735095.86	1.85E-04	8.45E-04	1.85E-06	2.53E-05	1.16E-04	2.75E-07	1.56E-05	5.31E-05	6.39E-08
3851	420969.5	3735099.67	1.79E-04	8.17E-04	1.79E-06	2.45E-05	1.12E-04	2.66E-07	1.50E-05	5.13E-05	6.17E-08
3852	420960.41	3735103.48	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.95E-05	5.95E-08
3853	420951.33	3735107.28	1.66E-04	7.58E-04	1.66E-06	2.27E-05	1.04E-04	2.47E-07	1.39E-05	4.76E-05	5.73E-08
3854	420942.24	3735111.09	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
3855	420933.16	3735114.9	1.52E-04	6.97E-04	1.52E-06	2.09E-05	9.53E-05	2.27E-07	1.28E-05	4.38E-05	5.27E-08
3856	420924.07	3735118.71	1.45E-04	6.65E-04	1.45E-06	1.99E-05	9.09E-05	2.16E-07	1.22E-05	4.18E-05	5.02E-08
3857	420914.99	3735122.52	1.38E-04	6.32E-04	1.38E-06	1.89E-05	8.64E-05	2.06E-07	1.16E-05	3.97E-05	4.78E-08
3858	420905.9	3735126.33	1.31E-04	5.99E-04	1.31E-06	1.80E-05	8.20E-05	1.95E-07	1.10E-05	3.77E-05	4.53E-08
3859	420896.82	3735130.13	1.24E-04	5.67E-04	1.24E-06	1.70E-05	7.75E-05	1.85E-07	1.04E-05	3.56E-05	4.28E-08
3860	420887.73	3735133.94	1.17E-04	5.33E-04	1.17E-06	1.60E-05	7.29E-05	1.74E-07	9.81E-06	3.35E-05	4.03E-08
3861	420878.65	3735137.75	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.15E-05	3.78E-08
3862	420869.56	3735141.56	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.41E-05	1.53E-07	8.62E-06	2.94E-05	3.54E-08
3863	420860.48	3735145.37	9.59E-05	4.38E-04	9.58E-07	1.31E-05	5.99E-05	1.43E-07	8.06E-06	2.75E-05	3.31E-08
3864	420851.39	3735149.17	8.95E-05	4.09E-04	8.94E-07	1.23E-05	5.59E-05	1.33E-07	7.53E-06	2.57E-05	3.09E-08
3865	420842.31	3735152.98	8.35E-05	3.82E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
3866	420787.79	3735175.83	5.56E-05	2.54E-04	5.56E-07	7.62E-06	3.48E-05	8.28E-08	4.68E-06	1.60E-05	1.92E-08
3867	420778.71	3735179.64	5.21E-05	2.38E-04	5.21E-07	7.14E-06	3.26E-05	7.76E-08	4.38E-06	1.50E-05	1.80E-08
3868	420769.62	3735183.45	4.86E-05	2.22E-04	4.86E-07	6.67E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
3869	420760.54	3735187.25	4.55E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.77E-08	3.82E-06	1.31E-05	1.57E-08
3870	420751.45	3735191.06	4.26E-05	1.95E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
3871	421393.09	3734532.6	6.39E-05	2.92E-04	6.39E-07	8.76E-06	4.00E-05	9.52E-08	5.38E-06	1.84E-05	2.21E-08
3872	421393.35	3734522.61	6.15E-05	2.81E-04	6.14E-07	8.42E-06	3.84E-05	9.15E-08	5.17E-06	1.77E-05	2.12E-08
3873	421424.7	3734571.72	6.58E-05	3.01E-04	6.57E-07	9.02E-06	4.11E-05	9.79E-08	5.53E-06	1.89E-05	2.27E-08
3874	421420.78	3734580.76	6.88E-05	3.15E-04	6.88E-07	9.43E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
3875	421416.86	3734589.8	7.21E-05	3.30E-04	7.21E-07	9.88E-06	4.51E-05	1.07E-07	6.07E-06	2.07E-05	2.49E-08
3876	421412.94	3734598.85	7.55E-05	3.45E-04	7.55E-07	1.04E-05	4.72E-05	1.12E-07	6.36E-06	2.17E-05	2.61E-08
3877	421409.02	3734607.89	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.65E-06	2.27E-05	2.73E-08
3878	421405.09	3734616.93	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
3879	421401.17	3734625.98	8.64E-05	3.95E-04	8.64E-07	1.18E-05	5.40E-05	1.29E-07	7.27E-06	2.48E-05	2.99E-08
3880	421397.25	3734635.02	9.03E-05	4.13E-04	9.03E-07	1.24E-05	5.65E-05	1.34E-07	7.60E-06	2.60E-05	3.12E-08
3881	421393.33	3734644.06	9.43E-05	4.31E-04	9.42E-07	1.29E-05	5.89E-05	1.40E-07	7.93E-06	2.71E-05	3.26E-08
3882	421365.89	3734707.37	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
3883	421361.97	3734716.41	1.27E-04	5.82E-04	1.27E-06	1.74E-05	7.96E-05	1.89E-07	1.07E-05	3.66E-05	4.40E-08
3884	421358.05	3734725.45	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.20E-05	1.95E-07	1.10E-05	3.77E-05	4.53E-08
3885	421354.12	3734734.5	1.35E-04	6.18E-04	1.35E-06	1.85E-05	8.45E-05	2.01E-07	1.14E-05	3.88E-05	4.67E-08
3886	421350.2	3734743.54	1.39E-04	6.35E-04	1.39E-06	1.90E-05	8.69E-05	2.07E-07	1.17E-05	3.99E-05	4.80E-08
3887	421346.28	3734752.58	1.43E-04	6.52E-04	1.43E-06	1.95E-05	8.92E-05	2.12E-07	1.20E-05	4.10E-05	4.93E-08
3888	421342.36	3734761.63	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.05E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
3889	421338.44	3734770.67	1.48E-04	6.79E-04	1.48E-06	2.03E-05	9.28E-05	2.21E-07	1.25E-05	4.27E-05	5.13E-08
3890	421334.52	3734779.71	1.52E-04	6.95E-04	1.52E-06	2.08E-05	9.51E-05	2.26E-07	1.28E-05	4.37E-05	5.25E-08
3891	421330.6	3734788.76	1.56E-04	7.11E-04	1.55E-06	2.13E-05	9.73E-05	2.32E-07	1.31E-05	4.47E-05	5.38E-08
3892	421326.68	3734797.8	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.92E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
3893	421314.92	3734824.93	1.67E-04	7.64E-04	1.67E-06	2.29E-05	1.04E-04	2.49E-07	1.41E-05	4.80E-05	5.77E-08
3894	421311	3734833.97	1.70E-04	7.76E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.87E-05	5.86E-08
3895	421307.07	3734843.01	1.72E-04	7.86E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
3896	421303.15	3734852.06	1.74E-04	7.95E-04	1.74E-06	2.38E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3897	421299.23	3734861.1	1.76E-04	8.03E-04	1.75E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.04E-05	6.07E-08
3898	421295.31	3734870.14	1.77E-04	8.08E-04	1.77E-06	2.42E-05	1.11E-04	2.63E-07	1.49E-05	5.08E-05	6.11E-08
3899	421291.39	3734879.19	1.78E-04	8.12E-04	1.78E-06	2.44E-05	1.11E-04	2.64E-07	1.49E-05	5.10E-05	6.14E-08
3900	421287.47	3734888.23	1.79E-04	8.19E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.15E-05	6.19E-08
3901	421283.55	3734897.27	1.80E-04	8.25E-04	1.80E-06	2.47E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
3902	421279.63	3734906.32	1.81E-04	8.30E-04	1.81E-06	2.49E-05	1.13E-04	2.70E-07	1.53E-05	5.21E-05	6.27E-08

3903	421275.71	3734915.36	1.82E-04	8.34E-04	1.82E-06	2.50E-05	1.14E-04	2.72E-07	1.53E-05	5.24E-05	6.30E-08
3904	421271.79	3734924.4	1.83E-04	8.38E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.33E-08
3905	421267.87	3734933.45	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3906	421263.95	3734942.49	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3907	421260.03	3734951.53	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.36E-08
3908	421256.1	3734960.58	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3909	421252.18	3734969.62	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.73E-07	1.54E-05	5.28E-05	6.35E-08
3910	421248.26	3734978.66	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3911	421244.34	3734987.71	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3912	421240.42	3734996.75	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3913	421236.5	3735005.79	1.83E-04	8.38E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.33E-08
3914	421232.58	3735014.84	1.83E-04	8.35E-04	1.83E-06	2.50E-05	1.14E-04	2.72E-07	1.54E-05	5.25E-05	6.31E-08
3915	421228.66	3735023.88	1.82E-04	8.32E-04	1.82E-06	2.49E-05	1.14E-04	2.71E-07	1.53E-05	5.23E-05	6.28E-08
3916	421215.65	3735036.73	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.74E-07	1.55E-05	5.30E-05	6.37E-08
3917	421206.56	3735040.54	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.57E-05	5.38E-05	6.47E-08
3918	421197.47	3735044.35	1.90E-04	8.68E-04	1.90E-06	2.60E-05	1.19E-04	2.83E-07	1.60E-05	5.45E-05	6.56E-08
3919	421188.38	3735048.16	1.92E-04	8.78E-04	1.92E-06	2.63E-05	1.20E-04	2.86E-07	1.62E-05	5.52E-05	6.64E-08
3920	421179.29	3735051.97	1.94E-04	8.88E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.58E-05	6.71E-08
3921	421170.2	3735055.78	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
3922	421088.38	3735090.08	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.85E-08
3923	421079.29	3735093.89	1.97E-04	8.99E-04	1.96E-06	2.69E-05	1.23E-04	2.93E-07	1.65E-05	5.65E-05	6.79E-08
3924	421070.2	3735097.7	1.95E-04	8.91E-04	1.95E-06	2.67E-05	1.22E-04	2.90E-07	1.64E-05	5.60E-05	6.73E-08
3925	421061.11	3735101.51	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.20E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
3926	421052.02	3735105.32	1.90E-04	8.70E-04	1.90E-06	2.61E-05	1.19E-04	2.83E-07	1.60E-05	5.47E-05	6.58E-08
3927	421042.93	3735109.13	1.88E-04	8.57E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.39E-05	6.48E-08
3928	421033.84	3735112.94	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.74E-07	1.55E-05	5.30E-05	6.37E-08
3929	421024.75	3735116.75	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.25E-08
3930	421015.66	3735120.56	1.77E-04	8.08E-04	1.77E-06	2.42E-05	1.10E-04	2.63E-07	1.49E-05	5.08E-05	6.11E-08
3931	421006.57	3735124.37	1.72E-04	7.86E-04	1.72E-06	2.36E-05	1.07E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
3932	420997.48	3735128.18	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.79E-05	5.77E-08
3933	420988.39	3735131.99	1.62E-04	7.39E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.64E-05	5.58E-08
3934	420979.3	3735135.8	1.56E-04	7.14E-04	1.56E-06	2.14E-05	9.76E-05	2.32E-07	1.31E-05	4.49E-05	5.40E-08
3935	420970.21	3735139.61	1.51E-04	6.89E-04	1.51E-06	2.07E-05	9.42E-05	2.24E-07	1.27E-05	4.33E-05	5.21E-08
3936	420961.12	3735143.42	1.45E-04	6.64E-04	1.45E-06	1.99E-05	9.08E-05	2.16E-07	1.22E-05	4.17E-05	5.02E-08
3937	420952.03	3735147.23	1.40E-04	6.38E-04	1.39E-06	1.91E-05	8.72E-05	2.08E-07	1.17E-05	4.01E-05	4.82E-08
3938	420942.94	3735151.04	1.34E-04	6.11E-04	1.34E-06	1.83E-05	8.36E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
3939	420933.85	3735154.85	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
3940	420924.76	3735158.66	1.22E-04	5.56E-04	1.21E-06	1.67E-05	7.60E-05	1.81E-07	1.02E-05	3.49E-05	4.20E-08
3941	420915.67	3735162.47	1.15E-04	5.28E-04	1.15E-06	1.58E-05	7.22E-05	1.72E-07	9.71E-06	3.32E-05	3.99E-08
3942	420906.58	3735166.28	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.14E-05	3.78E-08
3943	420897.48	3735170.09	1.03E-04	4.73E-04	1.03E-06	1.42E-05	6.47E-05	1.54E-07	8.70E-06	2.97E-05	3.57E-08
3944	420888.39	3735173.9	9.72E-05	4.44E-04	9.71E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
3945	420833.85	3735196.76	6.57E-05	3.00E-04	6.56E-07	9.00E-06	4.11E-05	9.78E-08	5.53E-06	1.89E-05	2.27E-08
3946	420824.76	3735200.57	6.14E-05	2.81E-04	6.14E-07	8.42E-06	3.84E-05	9.14E-08	5.17E-06	1.76E-05	2.12E-08
3947	420815.67	3735204.38	5.74E-05	2.62E-04	5.73E-07	7.86E-06	3.59E-05	8.54E-08	4.83E-06	1.65E-05	1.98E-08
3948	420806.58	3735208.19	5.36E-05	2.45E-04	5.36E-07	7.35E-06	3.35E-05	7.98E-08	4.51E-06	1.54E-05	1.85E-08
3949	420797.49	3735212	5.02E-05	2.29E-04	5.02E-07	6.88E-06	3.14E-05	7.47E-08	4.22E-06	1.44E-05	1.73E-08
3950	420788.4	3735215.82	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
3951	420779.31	3735219.63	4.40E-05	2.01E-04	4.40E-07	6.03E-06	2.75E-05	6.55E-08	3.70E-06	1.26E-05	1.52E-08
3952	420770.22	3735223.44	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.48E-06	1.19E-05	1.43E-08
3953	420761.13	3735227.25	3.88E-05	1.77E-04	3.88E-07	5.32E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
3954	420752.04	3735231.06	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.28E-05	5.42E-08	3.06E-06	1.05E-05	1.26E-08
3955	421433.07	3734533.66	5.53E-05	2.53E-04	5.52E-07	7.58E-06	3.46E-05	8.23E-08	4.65E-06	1.59E-05	1.91E-08
3956	421433.34	3734523.68	5.29E-05	2.42E-04	5.29E-07	7.26E-06	3.31E-05	7.88E-08	4.45E-06	1.52E-05	1.83E-08
3957	420743.32	3734467.82	2.48E-02	1.13E-01	2.47E-04	3.39E-03	1.55E-02	3.69E-05	2.08E-03	7.12E-03	8.56E-06
3958	420743.26	3734458.54	2.09E-02	9.54E-02	2.08E-04	2.86E-03	1.30E-02	3.10E-05	1.75E-03	5.99E-03	7.21E-06
3959	420743.19	3734449.27	1.60E-02	7.32E-02	1.60E-04	2.19E-03	1.00E-02	2.38E-05	1.35E-03	4.60E-03	5.53E-06
3960	420743.12	3734439.99	1.10E-02	5.05E-02	1.10E-04	1.51E-03	6.90E-03	1.64E-05	9.29E-04	3.17E-03	3.82E-06
3961	420743.06	3734430.72	6.94E-03	3.17E-02	6.94E-05	9.52E-04	4.34E-03	1.03E-05	5.84E-04	2.00E-03	2.40E-06
3962	420742.99	3734421.44	4.38E-03	2.00E-02	4.38E-05	6.00E-04	2.74E-03	6.52E-06	3.69E-04	1.26E-03	1.51E-06
3963	420742.92	3734412.17	2.95E-03	1.35E-02	2.95E-05	4.04E-04	1.84E-03	4.39E-06	2.48E-04	8.47E-04	1.02E-06
3964	420742.86	3734402.89	2.11E-03	9.63E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.77E-04	6.05E-04	7.28E-07

3965	420753.32	3734467.75	1.68E-02	7.70E-02	1.68E-04	2.31E-03	1.05E-02	2.51E-05	1.42E-03	4.84E-03	5.82E-06
3966	420753.26	3734458.47	1.40E-02	6.38E-02	1.39E-04	1.91E-03	8.72E-03	2.08E-05	1.17E-03	4.01E-03	4.82E-06
3967	420753.19	3734449.2	1.08E-02	4.92E-02	1.08E-04	1.48E-03	6.73E-03	1.60E-05	9.06E-04	3.09E-03	3.72E-06
3968	420753.12	3734439.92	7.72E-03	3.53E-02	7.71E-05	1.06E-03	4.83E-03	1.15E-05	6.49E-04	2.22E-03	2.67E-06
3969	420753.06	3734430.65	5.23E-03	2.39E-02	5.23E-05	7.17E-04	3.27E-03	7.79E-06	4.40E-04	1.50E-03	1.81E-06
3970	420752.99	3734421.37	3.55E-03	1.62E-02	3.55E-05	4.87E-04	2.22E-03	5.29E-06	2.99E-04	1.02E-03	1.23E-06
3971	420752.92	3734412.1	2.51E-03	1.15E-02	2.50E-05	3.43E-04	1.57E-03	3.73E-06	2.11E-04	7.20E-04	8.66E-07
3972	420752.86	3734402.82	1.85E-03	8.47E-03	1.85E-05	2.54E-04	1.16E-03	2.76E-06	1.56E-04	5.32E-04	6.40E-07
3973	420752.79	3734393.55	1.41E-03	6.46E-03	1.41E-05	1.94E-04	8.83E-04	2.10E-06	1.19E-04	4.06E-04	4.88E-07
3974	420763.12	3734439.85	5.68E-03	2.60E-02	5.68E-05	7.79E-04	3.55E-03	8.46E-06	4.78E-04	1.63E-03	1.96E-06
3975	420763.06	3734430.57	4.07E-03	1.86E-02	4.07E-05	5.58E-04	2.54E-03	6.06E-06	3.42E-04	1.17E-03	1.41E-06
3976	420762.99	3734421.3	2.91E-03	1.33E-02	2.91E-05	3.99E-04	1.82E-03	4.34E-06	2.45E-04	8.37E-04	1.01E-06
3977	420762.92	3734412.02	2.14E-03	9.77E-03	2.14E-05	2.93E-04	1.34E-03	3.18E-06	1.80E-04	6.14E-04	7.38E-07
3978	420762.86	3734402.75	1.62E-03	7.42E-03	1.62E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.67E-04	5.61E-07
3979	420762.79	3734393.47	1.27E-03	5.81E-03	1.27E-05	1.74E-04	7.94E-04	1.89E-06	1.07E-04	3.65E-04	4.39E-07
3980	420772.79	3734393.4	1.14E-03	5.20E-03	1.14E-05	1.56E-04	7.11E-04	1.69E-06	9.57E-05	3.27E-04	3.93E-07
3981	420793.52	3734495.28	7.53E-03	3.44E-02	7.53E-05	1.03E-03	4.71E-03	1.12E-05	6.34E-04	2.16E-03	2.60E-06
3982	420793.46	3734486.01	6.71E-03	3.07E-02	6.70E-05	9.19E-04	4.19E-03	9.98E-06	5.64E-04	1.93E-03	2.32E-06
3983	420803.52	3734495.21	5.95E-03	2.72E-02	5.94E-05	8.15E-04	3.72E-03	8.85E-06	5.00E-04	1.71E-03	2.05E-06
3984	420803.45	3734485.94	5.27E-03	2.41E-02	5.27E-05	7.22E-04	3.29E-03	7.84E-06	4.43E-04	1.51E-03	1.82E-06
3985	420803.39	3734476.66	4.63E-03	2.12E-02	4.63E-05	6.35E-04	2.90E-03	6.89E-06	3.90E-04	1.33E-03	1.60E-06
3986	420803.32	3734467.39	3.97E-03	1.82E-02	3.97E-05	5.44E-04	2.48E-03	5.91E-06	3.34E-04	1.14E-03	1.37E-06
3987	420803.25	3734458.11	3.34E-03	1.53E-02	3.34E-05	4.57E-04	2.09E-03	4.97E-06	2.81E-04	9.59E-04	1.15E-06
3988	420803.19	3734448.84	2.76E-03	1.26E-02	2.75E-05	3.78E-04	1.72E-03	4.10E-06	2.32E-04	7.92E-04	9.52E-07
3989	420803.12	3734439.56	2.24E-03	1.02E-02	2.24E-05	3.07E-04	1.40E-03	3.34E-06	1.89E-04	6.44E-04	7.75E-07
3990	420803.05	3734430.29	1.81E-03	8.27E-03	1.81E-05	2.48E-04	1.13E-03	2.69E-06	1.52E-04	5.19E-04	6.25E-07
3991	420802.99	3734421.01	1.46E-03	6.66E-03	1.46E-05	2.00E-04	9.11E-04	2.17E-06	1.23E-04	4.19E-04	5.04E-07
3992	420802.92	3734411.74	1.19E-03	5.42E-03	1.18E-05	1.62E-04	7.41E-04	1.76E-06	9.97E-05	3.41E-04	4.10E-07
3993	420813.52	3734495.14	4.75E-03	2.17E-02	4.75E-05	6.51E-04	2.97E-03	7.07E-06	4.00E-04	1.36E-03	1.64E-06
3994	420813.45	3734485.86	4.22E-03	1.93E-02	4.21E-05	5.78E-04	2.64E-03	6.28E-06	3.55E-04	1.21E-03	1.46E-06
3995	420813.39	3734476.59	3.72E-03	1.70E-02	3.72E-05	5.10E-04	2.33E-03	5.54E-06	3.13E-04	1.07E-03	1.29E-06
3996	420813.32	3734467.31	3.21E-03	1.47E-02	3.21E-05	4.41E-04	2.01E-03	4.78E-06	2.70E-04	9.24E-04	1.11E-06
3997	420813.25	3734458.04	2.72E-03	1.24E-02	2.72E-05	3.73E-04	1.70E-03	4.05E-06	2.29E-04	7.82E-04	9.40E-07
3998	420813.19	3734448.76	2.27E-03	1.04E-02	2.27E-05	3.11E-04	1.42E-03	3.38E-06	1.91E-04	6.52E-04	7.85E-07
3999	420813.12	3734439.49	1.87E-03	8.57E-03	1.87E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
4000	420813.05	3734430.21	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.61E-04	2.29E-06	1.29E-04	4.42E-04	5.31E-07
4001	420812.99	3734420.94	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.35E-07
4002	420812.92	3734411.66	1.04E-03	4.76E-03	1.04E-05	1.43E-04	6.51E-04	1.55E-06	8.76E-05	2.99E-04	3.60E-07
4003	420812.85	3734402.39	8.70E-04	3.98E-03	8.70E-06	1.19E-04	5.44E-04	1.30E-06	7.32E-05	2.50E-04	3.01E-07
4004	420823.52	3734495.07	3.89E-03	1.78E-02	3.88E-05	5.33E-04	2.43E-03	5.78E-06	3.27E-04	1.12E-03	1.34E-06
4005	420823.45	3734485.79	3.45E-03	1.58E-02	3.45E-05	4.73E-04	2.16E-03	5.13E-06	2.90E-04	9.91E-04	1.19E-06
4006	420823.39	3734476.52	3.04E-03	1.39E-02	3.04E-05	4.16E-04	1.90E-03	4.52E-06	2.56E-04	8.73E-04	1.05E-06
4007	420823.32	3734467.24	2.64E-03	1.21E-02	2.64E-05	3.62E-04	1.65E-03	3.93E-06	2.22E-04	7.59E-04	9.12E-07
4008	420823.25	3734457.97	2.26E-03	1.03E-02	2.26E-05	3.09E-04	1.41E-03	3.36E-06	1.90E-04	6.49E-04	7.80E-07
4009	420823.19	3734448.69	1.90E-03	8.69E-03	1.90E-05	2.61E-04	1.19E-03	2.83E-06	1.60E-04	5.46E-04	6.57E-07
4010	420823.12	3734439.42	1.59E-03	7.27E-03	1.59E-05	2.18E-04	9.93E-04	2.37E-06	1.34E-04	4.57E-04	5.49E-07
4011	420823.05	3734430.14	1.32E-03	6.04E-03	1.32E-05	1.81E-04	8.26E-04	1.97E-06	1.11E-04	3.80E-04	4.57E-07
4012	420822.99	3734420.87	1.10E-03	5.03E-03	1.10E-05	1.51E-04	6.87E-04	1.64E-06	9.25E-05	3.16E-04	3.80E-07
4013	420822.92	3734411.59	9.20E-04	4.21E-03	9.19E-06	1.26E-04	5.75E-04	1.37E-06	7.74E-05	2.64E-04	3.18E-07
4014	420822.85	3734402.32	7.78E-04	3.56E-03	7.77E-06	1.07E-04	4.86E-04	1.16E-06	6.54E-05	2.23E-04	2.69E-07
4015	420833.52	3734495	3.22E-03	1.47E-02	3.22E-05	4.42E-04	2.01E-03	4.80E-06	2.71E-04	9.26E-04	1.11E-06
4016	420833.45	3734485.72	2.86E-03	1.31E-02	2.86E-05	3.92E-04	1.79E-03	4.26E-06	2.41E-04	8.22E-04	9.88E-07
4017	420833.39	3734476.45	2.52E-03	1.15E-02	2.52E-05	3.45E-04	1.57E-03	3.75E-06	2.12E-04	7.23E-04	8.70E-07
4018	420833.32	3734467.17	2.19E-03	1.00E-02	2.19E-05	3.00E-04	1.37E-03	3.26E-06	1.84E-04	6.29E-04	7.56E-07
4019	420833.25	3734457.9	1.89E-03	8.63E-03	1.89E-05	2.59E-04	1.18E-03	2.81E-06	1.59E-04	5.43E-04	6.53E-07
4020	420833.19	3734448.62	1.61E-03	7.38E-03	1.61E-05	2.21E-04	1.01E-03	2.40E-06	1.36E-04	4.64E-04	5.58E-07
4021	420833.12	3734439.35	1.36E-03	6.23E-03	1.36E-05	1.87E-04	8.53E-04	2.03E-06	1.15E-04	3.92E-04	4.71E-07
4022	420833.05	3734430.07	1.15E-03	5.25E-03	1.15E-05	1.57E-04	7.18E-04	1.71E-06	9.66E-05	3.30E-04	3.97E-07
4023	420832.99	3734420.8	9.66E-04	4.42E-03	9.66E-06	1.32E-04	6.04E-04	1.44E-06	8.13E-05	2.78E-04	3.34E-07
4024	420832.92	3734411.52	8.18E-04	3.74E-03	8.17E-06	1.12E-04	5.11E-04	1.22E-06	6.88E-05	2.35E-04	2.83E-07
4025	420893.52	3734494.56	1.31E-03	5.98E-03	1.31E-05	1.79E-04	8.18E-04	1.95E-06	1.10E-04	3.76E-04	4.52E-07
4026	420893.45	3734485.29	1.18E-03	5.41E-03	1.18E-05	1.62E-04	7.40E-04	1.76E-06	9.95E-05	3.40E-04	4.09E-07

4027	420893.39	3734476.01	1.06E-03	4.85E-03	1.06E-05	1.45E-04	6.63E-04	1.58E-06	8.92E-05	3.05E-04	3.67E-07
4028	420893.32	3734466.74	9.45E-04	4.32E-03	9.44E-06	1.29E-04	5.91E-04	1.41E-06	7.95E-05	2.71E-04	3.26E-07
4029	420893.12	3734438.91	6.49E-04	2.97E-03	6.49E-06	8.90E-05	4.06E-04	9.66E-07	5.46E-05	1.86E-04	2.24E-07
4030	420893.05	3734429.64	5.71E-04	2.61E-03	5.71E-06	7.83E-05	3.57E-04	8.50E-07	4.80E-05	1.64E-04	1.97E-07
4031	420892.99	3734420.36	5.04E-04	2.31E-03	5.04E-06	6.91E-05	3.15E-04	7.50E-07	4.24E-05	1.45E-04	1.74E-07
4032	420892.92	3734411.09	4.47E-04	2.04E-03	4.46E-06	6.12E-05	2.79E-04	6.65E-07	3.76E-05	1.28E-04	1.54E-07
4033	420892.85	3734401.81	3.98E-04	1.82E-03	3.98E-06	5.45E-05	2.49E-04	5.92E-07	3.35E-05	1.14E-04	1.37E-07
4034	420892.79	3734392.54	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
4035	420913.52	3734494.42	1.02E-03	4.67E-03	1.02E-05	1.40E-04	6.39E-04	1.52E-06	8.59E-05	2.94E-04	3.53E-07
4036	420913.45	3734485.15	9.28E-04	4.24E-03	9.28E-06	1.27E-04	5.80E-04	1.38E-06	7.81E-05	2.67E-04	3.21E-07
4037	420913.39	3734475.87	8.37E-04	3.83E-03	8.37E-06	1.15E-04	5.23E-04	1.25E-06	7.04E-05	2.41E-04	2.89E-07
4038	420913.32	3734466.6	7.51E-04	3.43E-03	7.51E-06	1.03E-04	4.70E-04	1.12E-06	6.32E-05	2.16E-04	2.60E-07
4039	420913.12	3734438.77	5.31E-04	2.43E-03	5.30E-06	7.27E-05	3.32E-04	7.90E-07	4.46E-05	1.52E-04	1.83E-07
4040	420913.05	3734429.5	4.72E-04	2.16E-03	4.71E-06	6.47E-05	2.95E-04	7.02E-07	3.97E-05	1.36E-04	1.63E-07
4041	420912.99	3734420.22	4.21E-04	1.92E-03	4.20E-06	5.77E-05	2.63E-04	6.26E-07	3.54E-05	1.21E-04	1.45E-07
4042	420912.92	3734410.95	3.76E-04	1.72E-03	3.76E-06	5.16E-05	2.35E-04	5.60E-07	3.17E-05	1.08E-04	1.30E-07
4043	420912.85	3734401.67	3.38E-04	1.54E-03	3.38E-06	4.63E-05	2.11E-04	5.03E-07	2.84E-05	9.71E-05	1.17E-07
4044	420912.79	3734392.4	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.76E-05	1.05E-07
4045	420933.52	3734494.28	8.15E-04	3.73E-03	8.14E-06	1.12E-04	5.09E-04	1.21E-06	6.86E-05	2.34E-04	2.82E-07
4046	420933.45	3734485	7.43E-04	3.40E-03	7.43E-06	1.02E-04	4.65E-04	1.11E-06	6.25E-05	2.14E-04	2.57E-07
4047	420933.38	3734475.73	6.74E-04	3.08E-03	6.74E-06	9.24E-05	4.21E-04	1.00E-06	5.67E-05	1.94E-04	2.33E-07
4048	420933.32	3734466.45	6.08E-04	2.78E-03	6.08E-06	8.34E-05	3.80E-04	9.06E-07	5.12E-05	1.75E-04	2.10E-07
4049	420933.12	3734438.63	4.41E-04	2.01E-03	4.40E-06	6.04E-05	2.75E-04	6.56E-07	3.71E-05	1.27E-04	1.52E-07
4050	420933.05	3734429.35	3.95E-04	1.81E-03	3.95E-06	5.42E-05	2.47E-04	5.88E-07	3.32E-05	1.14E-04	1.37E-07
4051	420932.98	3734420.08	3.55E-04	1.62E-03	3.55E-06	4.87E-05	2.22E-04	5.29E-07	2.99E-05	1.02E-04	1.23E-07
4052	420932.92	3734410.8	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
4053	420932.85	3734401.53	2.90E-04	1.32E-03	2.90E-06	3.97E-05	1.81E-04	4.31E-07	2.44E-05	8.32E-05	1.00E-07
4054	420932.78	3734392.25	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.21E-05	7.56E-05	9.10E-08
4055	420953.52	3734494.13	6.63E-04	3.03E-03	6.62E-06	9.08E-05	4.14E-04	9.86E-07	5.57E-05	1.90E-04	2.29E-07
4056	420953.45	3734484.86	6.07E-04	2.77E-03	6.06E-06	8.32E-05	3.79E-04	9.03E-07	5.10E-05	1.74E-04	2.10E-07
4057	420953.38	3734475.58	5.53E-04	2.53E-03	5.53E-06	7.58E-05	3.46E-04	8.23E-07	4.65E-05	1.59E-04	1.91E-07
4058	420953.32	3734466.31	5.02E-04	2.30E-03	5.02E-06	6.88E-05	3.14E-04	7.48E-07	4.22E-05	1.44E-04	1.74E-07
4059	420953.12	3734438.48	3.71E-04	1.70E-03	3.71E-06	5.09E-05	2.32E-04	5.52E-07	3.12E-05	1.07E-04	1.28E-07
4060	420953.05	3734429.21	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
4061	420952.98	3734419.93	3.03E-04	1.39E-03	3.03E-06	4.16E-05	1.90E-04	4.51E-07	2.55E-05	8.71E-05	1.05E-07
4062	420952.92	3734410.66	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.09E-07	2.31E-05	7.90E-05	9.50E-08
4063	420952.85	3734401.38	2.50E-04	1.14E-03	2.50E-06	3.43E-05	1.56E-04	3.72E-07	2.11E-05	7.19E-05	8.65E-08
4064	420952.78	3734392.11	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.92E-05	6.57E-05	7.91E-08
4065	420973.52	3734493.99	5.47E-04	2.50E-03	5.47E-06	7.50E-05	3.42E-04	8.14E-07	4.60E-05	1.57E-04	1.89E-07
4066	420973.45	3734484.71	5.03E-04	2.30E-03	5.03E-06	6.89E-05	3.14E-04	7.49E-07	4.23E-05	1.45E-04	1.74E-07
4067	420973.38	3734475.44	4.61E-04	2.11E-03	4.60E-06	6.31E-05	2.88E-04	6.86E-07	3.87E-05	1.32E-04	1.59E-07
4068	420973.32	3734466.16	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.26E-07	3.54E-05	1.21E-04	1.45E-07
4069	420973.12	3734438.34	3.16E-04	1.45E-03	3.16E-06	4.34E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
4070	420973.05	3734429.06	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4071	420972.98	3734419.79	2.62E-04	1.20E-03	2.61E-06	3.59E-05	1.64E-04	3.89E-07	2.20E-05	7.52E-05	9.04E-08
4072	420972.92	3734410.51	2.39E-04	1.09E-03	2.38E-06	3.27E-05	1.49E-04	3.55E-07	2.01E-05	6.86E-05	8.24E-08
4073	420972.85	3734401.24	2.18E-04	9.98E-04	2.18E-06	2.99E-05	1.36E-04	3.25E-07	1.84E-05	6.27E-05	7.54E-08
4074	420972.78	3734391.96	2.01E-04	9.17E-04	2.00E-06	2.75E-05	1.25E-04	2.99E-07	1.69E-05	5.76E-05	6.93E-08
4075	420993.58	3734503.12	4.94E-04	2.26E-03	4.94E-06	6.78E-05	3.09E-04	7.36E-07	4.16E-05	1.42E-04	1.71E-07
4076	420993.52	3734493.85	4.58E-04	2.09E-03	4.58E-06	6.28E-05	2.86E-04	6.82E-07	3.85E-05	1.32E-04	1.58E-07
4077	420993.45	3734484.57	4.22E-04	1.93E-03	4.22E-06	5.79E-05	2.64E-04	6.29E-07	3.55E-05	1.21E-04	1.46E-07
4078	420993.38	3734475.3	3.88E-04	1.78E-03	3.88E-06	5.33E-05	2.43E-04	5.78E-07	3.27E-05	1.12E-04	1.34E-07
4079	420993.32	3734466.02	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
4080	421013.58	3734502.98	4.14E-04	1.89E-03	4.14E-06	5.68E-05	2.59E-04	6.17E-07	3.49E-05	1.19E-04	1.43E-07
4081	421013.52	3734493.7	3.85E-04	1.76E-03	3.85E-06	5.28E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
4082	421013.45	3734484.43	3.58E-04	1.64E-03	3.58E-06	4.90E-05	2.24E-04	5.32E-07	3.01E-05	1.03E-04	1.24E-07
4083	421013.38	3734475.15	3.31E-04	1.51E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.14E-07
4084	421013.32	3734465.88	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.77E-05	1.05E-07
4085	421013.18	3734447.33	2.58E-04	1.18E-03	2.58E-06	3.53E-05	1.61E-04	3.84E-07	2.17E-05	7.40E-05	8.90E-08
4086	421013.12	3734438.05	2.37E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.80E-05	8.17E-08
4087	421013.05	3734428.78	2.17E-04	9.93E-04	2.17E-06	2.98E-05	1.36E-04	3.23E-07	1.83E-05	6.24E-05	7.51E-08
4088	421012.98	3734419.5	2.00E-04	9.13E-04	2.00E-06	2.74E-05	1.25E-04	2.97E-07	1.68E-05	5.74E-05	6.90E-08

4089	421012.92	3734410.23	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
4090	421012.85	3734400.95	1.70E-04	7.76E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.88E-05	5.87E-08
4091	421012.78	3734391.68	1.57E-04	7.19E-04	1.57E-06	2.16E-05	9.83E-05	2.34E-07	1.32E-05	4.52E-05	5.43E-08
4092	421033.58	3734502.83	3.52E-04	1.61E-03	3.51E-06	4.82E-05	2.20E-04	5.23E-07	2.96E-05	1.01E-04	1.22E-07
4093	421033.52	3734493.56	3.28E-04	1.50E-03	3.28E-06	4.50E-05	2.05E-04	4.88E-07	2.76E-05	9.43E-05	1.13E-07
4094	421033.45	3734484.28	3.05E-04	1.40E-03	3.05E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.78E-05	1.06E-07
4095	421033.38	3734475.01	2.84E-04	1.30E-03	2.84E-06	3.89E-05	1.77E-04	4.23E-07	2.39E-05	8.16E-05	9.81E-08
4096	421033.32	3734465.73	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
4097	421033.18	3734447.18	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.74E-08
4098	421033.12	3734437.91	2.06E-04	9.41E-04	2.06E-06	2.82E-05	1.29E-04	3.06E-07	1.73E-05	5.91E-05	7.11E-08
4099	421033.05	3734428.63	1.89E-04	8.66E-04	1.89E-06	2.60E-05	1.18E-04	2.82E-07	1.59E-05	5.44E-05	6.54E-08
4100	421032.98	3734419.36	1.75E-04	8.00E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.03E-05	6.04E-08
4101	421032.92	3734410.08	1.62E-04	7.39E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.65E-05	5.59E-08
4102	421032.85	3734400.81	1.50E-04	6.85E-04	1.50E-06	2.05E-05	9.37E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
4103	421032.78	3734391.53	1.40E-04	6.42E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
4104	421073.58	3734502.55	2.64E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.11E-08
4105	421073.51	3734493.27	2.47E-04	1.13E-03	2.47E-06	3.38E-05	1.54E-04	3.67E-07	2.08E-05	7.09E-05	8.53E-08
4106	421073.45	3734484	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.61E-05	7.94E-08
4107	421073.38	3734474.72	2.13E-04	9.76E-04	2.13E-06	2.93E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.37E-08
4108	421073.31	3734465.45	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.83E-08
4109	421153.58	3734501.97	1.61E-04	7.38E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.64E-05	5.58E-08
4110	421153.51	3734492.7	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.29E-05	4.39E-05	5.28E-08
4111	421153.45	3734483.42	1.43E-04	6.55E-04	1.43E-06	1.96E-05	8.96E-05	2.13E-07	1.21E-05	4.12E-05	4.95E-08
4112	421153.38	3734474.15	1.34E-04	6.12E-04	1.34E-06	1.84E-05	8.37E-05	1.99E-07	1.13E-05	3.85E-05	4.63E-08
4113	421153.31	3734464.87	1.25E-04	5.72E-04	1.25E-06	1.72E-05	7.82E-05	1.86E-07	1.05E-05	3.60E-05	4.32E-08
4114	421153.18	3734446.32	1.11E-04	5.05E-04	1.10E-06	1.52E-05	6.91E-05	1.65E-07	9.30E-06	3.18E-05	3.82E-08
4115	421153.11	3734437.05	1.04E-04	4.76E-04	1.04E-06	1.43E-05	6.51E-05	1.55E-07	8.76E-06	2.99E-05	3.60E-08
4116	421153.05	3734427.77	9.83E-05	4.50E-04	9.83E-07	1.35E-05	6.15E-05	1.46E-07	8.27E-06	2.83E-05	3.40E-08
4117	421152.98	3734418.5	9.34E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.68E-05	3.23E-08
4118	421152.91	3734409.22	8.84E-05	4.04E-04	8.84E-07	1.21E-05	5.53E-05	1.32E-07	7.44E-06	2.54E-05	3.06E-08
4119	421152.85	3734399.95	8.34E-05	3.81E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
4120	421152.78	3734390.67	7.87E-05	3.60E-04	7.87E-07	1.08E-05	4.92E-05	1.17E-07	6.62E-06	2.26E-05	2.72E-08
4121	421193.58	3734501.68	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.74E-05	4.50E-08
4122	421193.51	3734492.41	1.24E-04	5.66E-04	1.24E-06	1.70E-05	7.74E-05	1.84E-07	1.04E-05	3.56E-05	4.28E-08
4123	421193.44	3734483.13	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.33E-05	1.74E-07	9.86E-06	3.37E-05	4.05E-08
4124	421193.38	3734473.86	1.11E-04	5.07E-04	1.11E-06	1.52E-05	6.93E-05	1.65E-07	9.33E-06	3.18E-05	3.83E-08
4125	421193.31	3734464.58	1.05E-04	4.79E-04	1.05E-06	1.44E-05	6.55E-05	1.56E-07	8.81E-06	3.01E-05	3.62E-08
4126	421193.18	3734446.03	9.35E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.69E-05	3.23E-08
4127	421193.11	3734436.76	8.83E-05	4.04E-04	8.83E-07	1.21E-05	5.52E-05	1.31E-07	7.43E-06	2.54E-05	3.05E-08
4128	421193.04	3734427.48	8.35E-05	3.82E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
4129	421192.98	3734418.21	7.89E-05	3.61E-04	7.88E-07	1.08E-05	4.93E-05	1.17E-07	6.64E-06	2.27E-05	2.73E-08
4130	421192.91	3734408.93	7.46E-05	3.41E-04	7.46E-07	1.02E-05	4.66E-05	1.11E-07	6.28E-06	2.14E-05	2.58E-08
4131	421192.84	3734399.66	7.06E-05	3.23E-04	7.06E-07	9.68E-06	4.42E-05	1.05E-07	5.94E-06	2.03E-05	2.44E-08
4132	421192.78	3734390.38	6.69E-05	3.06E-04	6.69E-07	9.17E-06	4.18E-05	9.96E-08	5.63E-06	1.92E-05	2.31E-08
4133	421233.58	3734501.4	1.07E-04	4.91E-04	1.07E-06	1.47E-05	6.71E-05	1.60E-07	9.03E-06	3.09E-05	3.71E-08
4134	421233.51	3734492.12	1.02E-04	4.67E-04	1.02E-06	1.40E-05	6.38E-05	1.52E-07	8.59E-06	2.93E-05	3.53E-08
4135	421233.44	3734482.85	9.70E-05	4.43E-04	9.69E-07	1.33E-05	6.06E-05	1.44E-07	8.16E-06	2.79E-05	3.35E-08
4136	421233.38	3734473.57	9.20E-05	4.21E-04	9.20E-07	1.26E-05	5.75E-05	1.37E-07	7.74E-06	2.64E-05	3.18E-08
4137	421233.31	3734464.3	8.73E-05	3.99E-04	8.72E-07	1.20E-05	5.46E-05	1.30E-07	7.34E-06	2.51E-05	3.02E-08
4138	421233.11	3734436.47	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.57E-08
4139	421233.04	3734427.2	7.07E-05	3.23E-04	7.07E-07	9.69E-06	4.42E-05	1.05E-07	5.95E-06	2.03E-05	2.44E-08
4140	421232.98	3734417.92	6.71E-05	3.07E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
4141	421232.91	3734408.65	6.37E-05	2.91E-04	6.36E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
4142	421232.84	3734399.37	6.05E-05	2.76E-04	6.04E-07	8.29E-06	3.78E-05	9.00E-08	5.09E-06	1.74E-05	2.09E-08
4143	421232.78	3734390.1	5.74E-05	2.63E-04	5.74E-07	7.87E-06	3.59E-05	8.55E-08	4.83E-06	1.65E-05	1.98E-08
4144	421273.49	3734510.26	9.40E-05	4.30E-04	9.39E-07	1.29E-05	5.88E-05	1.40E-07	7.91E-06	2.70E-05	3.25E-08
4145	421273.58	3734501.11	8.97E-05	4.10E-04	8.96E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
4146	421273.51	3734491.83	8.55E-05	3.91E-04	8.55E-07	1.17E-05	5.35E-05	1.27E-07	7.20E-06	2.46E-05	2.96E-08
4147	421273.44	3734482.56	8.15E-05	3.73E-04	8.14E-07	1.12E-05	5.09E-05	1.21E-07	6.86E-06	2.34E-05	2.82E-08
4148	421273.38	3734473.28	7.76E-05	3.55E-04	7.76E-07	1.06E-05	4.85E-05	1.16E-07	6.53E-06	2.23E-05	2.68E-08
4149	421273.31	3734464.01	7.39E-05	3.38E-04	7.38E-07	1.01E-05	4.62E-05	1.10E-07	6.21E-06	2.12E-05	2.55E-08
4150	421273.24	3734454.73	7.03E-05	3.21E-04	7.02E-07	9.63E-06	4.39E-05	1.05E-07	5.91E-06	2.02E-05	2.43E-08

4151	421273.18	3734445.46	6.68E-05	3.06E-04	6.68E-07	9.16E-06	4.18E-05	9.95E-08	5.62E-06	1.92E-05	2.31E-08
4152	421273.11	3734436.18	6.36E-05	2.91E-04	6.35E-07	8.71E-06	3.97E-05	9.46E-08	5.35E-06	1.83E-05	2.20E-08
4153	421273.04	3734426.91	6.05E-05	2.77E-04	6.05E-07	8.29E-06	3.78E-05	9.00E-08	5.09E-06	1.74E-05	2.09E-08
4154	421272.98	3734417.63	5.76E-05	2.63E-04	5.76E-07	7.89E-06	3.60E-05	8.57E-08	4.85E-06	1.65E-05	1.99E-08
4155	421272.91	3734408.36	5.49E-05	2.51E-04	5.48E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
4156	421272.84	3734399.08	5.23E-05	2.39E-04	5.23E-07	7.17E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4157	421272.78	3734389.81	4.96E-05	2.27E-04	4.96E-07	6.81E-06	3.10E-05	7.39E-08	4.18E-06	1.43E-05	1.72E-08
4158	421313.51	3734507.37	7.83E-05	3.58E-04	7.83E-07	1.07E-05	4.90E-05	1.17E-07	6.59E-06	2.25E-05	2.71E-08
4159	421313.51	3734491.55	7.25E-05	3.32E-04	7.25E-07	9.94E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.51E-08
4160	421313.44	3734482.27	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.39E-08
4161	421313.38	3734473	6.62E-05	3.03E-04	6.61E-07	9.07E-06	4.14E-05	9.85E-08	5.57E-06	1.90E-05	2.29E-08
4162	421313.31	3734463.72	6.32E-05	2.89E-04	6.32E-07	8.66E-06	3.95E-05	9.41E-08	5.32E-06	1.82E-05	2.18E-08
4163	421313.24	3734454.45	6.03E-05	2.76E-04	6.03E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
4164	421313.18	3734445.17	5.75E-05	2.63E-04	5.75E-07	7.88E-06	3.60E-05	8.56E-08	4.84E-06	1.65E-05	1.99E-08
4165	421313.11	3734435.9	5.49E-05	2.51E-04	5.49E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
4166	421313.04	3734426.62	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4167	421312.98	3734417.35	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.11E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
4168	421312.91	3734408.07	4.76E-05	2.17E-04	4.75E-07	6.52E-06	2.97E-05	7.08E-08	4.00E-06	1.37E-05	1.64E-08
4169	421312.84	3734398.8	4.54E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.76E-08	3.82E-06	1.31E-05	1.57E-08
4170	421312.78	3734389.52	4.35E-05	1.99E-04	4.34E-07	5.96E-06	2.72E-05	6.47E-08	3.66E-06	1.25E-05	1.50E-08
4171	421353.11	3734435.61	4.79E-05	2.19E-04	4.79E-07	6.56E-06	2.99E-05	7.13E-08	4.03E-06	1.38E-05	1.65E-08
4172	421353.04	3734426.33	4.58E-05	2.10E-04	4.58E-07	6.28E-06	2.87E-05	6.82E-08	3.86E-06	1.32E-05	1.58E-08
4173	421352.97	3734417.06	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.75E-05	6.54E-08	3.69E-06	1.26E-05	1.52E-08
4174	421352.91	3734407.78	4.21E-05	1.92E-04	4.21E-07	5.77E-06	2.63E-05	6.26E-08	3.54E-06	1.21E-05	1.45E-08
4175	421352.84	3734398.51	4.03E-05	1.84E-04	4.03E-07	5.53E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
4176	421352.77	3734389.23	3.87E-05	1.77E-04	3.87E-07	5.30E-06	2.42E-05	5.76E-08	3.25E-06	1.11E-05	1.34E-08
4177	421393.5	3734507.7	5.78E-05	2.64E-04	5.78E-07	7.92E-06	3.61E-05	8.60E-08	4.86E-06	1.66E-05	2.00E-08
4178	421393.51	3734490.97	5.39E-05	2.46E-04	5.38E-07	7.38E-06	3.37E-05	8.02E-08	4.53E-06	1.55E-05	1.86E-08
4179	421393.44	3734481.7	5.17E-05	2.36E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
4180	421393.37	3734472.42	4.97E-05	2.27E-04	4.96E-07	6.81E-06	3.10E-05	7.39E-08	4.18E-06	1.43E-05	1.72E-08
4181	421393.31	3734463.15	4.77E-05	2.18E-04	4.76E-07	6.53E-06	2.98E-05	7.09E-08	4.01E-06	1.37E-05	1.65E-08
4182	421393.24	3734453.87	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
4183	421393.17	3734444.6	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.74E-05	6.54E-08	3.69E-06	1.26E-05	1.52E-08
4184	421393.11	3734435.32	4.21E-05	1.93E-04	4.21E-07	5.78E-06	2.63E-05	6.27E-08	3.55E-06	1.21E-05	1.46E-08
4185	421393.04	3734426.05	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
4186	421392.97	3734416.77	3.89E-05	1.78E-04	3.88E-07	5.33E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
4187	421392.91	3734407.5	3.73E-05	1.71E-04	3.73E-07	5.12E-06	2.33E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
4188	421392.84	3734398.22	3.59E-05	1.64E-04	3.58E-07	4.92E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
4189	421392.77	3734388.95	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.89E-06	9.89E-06	1.19E-08
4190	421433.49	3734507.87	4.97E-05	2.27E-04	4.97E-07	6.82E-06	3.11E-05	7.40E-08	4.18E-06	1.43E-05	1.72E-08
4191	421433.51	3734490.68	4.65E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
4192	421433.44	3734481.41	4.49E-05	2.05E-04	4.49E-07	6.16E-06	2.81E-05	6.69E-08	3.78E-06	1.29E-05	1.55E-08
4193	421433.37	3734472.13	4.33E-05	1.98E-04	4.33E-07	5.94E-06	2.71E-05	6.45E-08	3.65E-06	1.25E-05	1.50E-08
4194	421433.31	3734462.86	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
4195	421433.24	3734453.58	4.03E-05	1.84E-04	4.03E-07	5.53E-06	2.52E-05	6.01E-08	3.39E-06	1.16E-05	1.39E-08
4196	421433.17	3734444.31	3.89E-05	1.78E-04	3.88E-07	5.33E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
4197	421433.11	3734435.03	3.74E-05	1.71E-04	3.74E-07	5.13E-06	2.34E-05	5.57E-08	3.15E-06	1.07E-05	1.29E-08
4198	421433.04	3734425.76	3.60E-05	1.65E-04	3.60E-07	4.93E-06	2.25E-05	5.36E-08	3.03E-06	1.03E-05	1.24E-08
4199	421432.97	3734416.48	3.46E-05	1.58E-04	3.46E-07	4.75E-06	2.17E-05	5.16E-08	2.91E-06	9.95E-06	1.20E-08
4200	421432.91	3734407.21	3.33E-05	1.52E-04	3.33E-07	4.57E-06	2.08E-05	4.96E-08	2.81E-06	9.58E-06	1.15E-08
4201	421432.84	3734397.93	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.23E-06	1.11E-08
4202	421432.77	3734388.66	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.89E-06	1.07E-08
4203	420732.79	3734853.69	2.21E-04	1.01E-03	2.21E-06	3.03E-05	1.38E-04	3.29E-07	1.86E-05	6.35E-05	7.63E-08
4204	420744.45	3734853.69	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
4205	420732.79	3734893.69	1.65E-04	7.54E-04	1.65E-06	2.26E-05	1.03E-04	2.45E-07	1.39E-05	4.74E-05	5.70E-08
4206	420744.45	3734893.69	1.88E-04	8.59E-04	1.88E-06	2.58E-05	1.17E-04	2.80E-07	1.58E-05	5.40E-05	6.49E-08
4207	420732.79	3734933.69	1.28E-04	5.83E-04	1.27E-06	1.75E-05	7.97E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
4208	420744.45	3734933.69	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
4209	420732.79	3734973.69	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.41E-05	1.53E-07	8.63E-06	2.95E-05	3.54E-08
4210	420744.45	3734973.69	1.14E-04	5.21E-04	1.14E-06	1.56E-05	7.13E-05	1.70E-07	9.59E-06	3.28E-05	3.94E-08
4211	420732.79	3735013.69	8.32E-05	3.81E-04	8.32E-07	1.14E-05	5.20E-05	1.24E-07	7.00E-06	2.39E-05	2.88E-08
4212	420744.45	3735013.69	9.14E-05	4.18E-04	9.13E-07	1.25E-05	5.71E-05	1.36E-07	7.69E-06	2.63E-05	3.16E-08

4213	420732.79	3735053.69	6.81E-05	3.11E-04	6.81E-07	9.34E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
4214	420744.45	3735053.69	7.43E-05	3.40E-04	7.43E-07	1.02E-05	4.65E-05	1.11E-07	6.25E-06	2.14E-05	2.57E-08
4215	420754.41	3734383.95	1.08E-03	4.95E-03	1.08E-05	1.48E-04	6.76E-04	1.61E-06	9.10E-05	3.11E-04	3.74E-07
4216	420754.38	3734374.25	8.59E-04	3.93E-03	8.59E-06	1.18E-04	5.37E-04	1.28E-06	7.23E-05	2.47E-04	2.97E-07
4217	420754.34	3734364.55	6.97E-04	3.19E-03	6.96E-06	9.55E-05	4.36E-04	1.04E-06	5.86E-05	2.00E-04	2.41E-07
4218	420754.31	3734354.84	5.75E-04	2.63E-03	5.74E-06	7.88E-05	3.59E-04	8.56E-07	4.84E-05	1.65E-04	1.99E-07
4219	420754.27	3734345.14	4.80E-04	2.20E-03	4.80E-06	6.59E-05	3.00E-04	7.15E-07	4.04E-05	1.38E-04	1.66E-07
4220	420754.23	3734335.44	4.07E-04	1.86E-03	4.06E-06	5.57E-05	2.54E-04	6.05E-07	3.42E-05	1.17E-04	1.40E-07
4221	420754.2	3734325.74	3.48E-04	1.59E-03	3.48E-06	4.77E-05	2.17E-04	5.18E-07	2.93E-05	9.99E-05	1.20E-07
4222	420764.41	3734383.91	9.95E-04	4.55E-03	9.94E-06	1.36E-04	6.22E-04	1.48E-06	8.37E-05	2.86E-04	3.44E-07
4223	420764.38	3734374.21	8.05E-04	3.68E-03	8.05E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
4224	420764.34	3734364.51	6.63E-04	3.03E-03	6.62E-06	9.08E-05	4.14E-04	9.86E-07	5.57E-05	1.90E-04	2.29E-07
4225	420764.31	3734354.81	5.52E-04	2.53E-03	5.52E-06	7.57E-05	3.45E-04	8.22E-07	4.65E-05	1.59E-04	1.91E-07
4226	420764.27	3734345.11	4.66E-04	2.13E-03	4.66E-06	6.39E-05	2.91E-04	6.94E-07	3.92E-05	1.34E-04	1.61E-07
4227	420764.23	3734335.4	3.97E-04	1.82E-03	3.97E-06	5.44E-05	2.48E-04	5.91E-07	3.34E-05	1.14E-04	1.37E-07
4228	420764.2	3734325.7	3.42E-04	1.56E-03	3.42E-06	4.69E-05	2.14E-04	5.09E-07	2.88E-05	9.83E-05	1.18E-07
4229	420774.41	3734383.88	9.08E-04	4.15E-03	9.08E-06	1.25E-04	5.68E-04	1.35E-06	7.64E-05	2.61E-04	3.14E-07
4230	420774.38	3734374.17	7.48E-04	3.42E-03	7.47E-06	1.03E-04	4.67E-04	1.11E-06	6.29E-05	2.15E-04	2.58E-07
4231	420774.34	3734364.47	6.24E-04	2.85E-03	6.24E-06	8.55E-05	3.90E-04	9.29E-07	5.25E-05	1.79E-04	2.16E-07
4232	420774.31	3734354.77	5.26E-04	2.41E-03	5.26E-06	7.21E-05	3.29E-04	7.83E-07	4.43E-05	1.51E-04	1.82E-07
4233	420774.27	3734345.07	4.48E-04	2.05E-03	4.48E-06	6.14E-05	2.80E-04	6.67E-07	3.77E-05	1.29E-04	1.55E-07
4234	420774.23	3734335.37	3.85E-04	1.76E-03	3.85E-06	5.28E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
4235	420774.2	3734325.66	3.34E-04	1.53E-03	3.33E-06	4.57E-05	2.09E-04	4.97E-07	2.81E-05	9.59E-05	1.15E-07
4236	420834.38	3734373.95	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
4237	420834.34	3734364.25	4.02E-04	1.84E-03	4.02E-06	5.51E-05	2.51E-04	5.99E-07	3.38E-05	1.16E-04	1.39E-07
4238	420834.31	3734354.55	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4239	420834.27	3734344.85	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
4240	420834.23	3734335.14	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4241	420834.2	3734325.44	2.59E-04	1.18E-03	2.59E-06	3.55E-05	1.62E-04	3.85E-07	2.18E-05	7.43E-05	8.94E-08
4242	420834.16	3734315.74	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.48E-07	1.96E-05	6.71E-05	8.07E-08
4243	420834.13	3734306.04	2.11E-04	9.66E-04	2.11E-06	2.89E-05	1.32E-04	3.14E-07	1.78E-05	6.07E-05	7.30E-08
4244	420844.41	3734383.62	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	3.99E-05	1.36E-04	1.64E-07
4245	420844.38	3734373.91	4.19E-04	1.92E-03	4.19E-06	5.74E-05	2.62E-04	6.24E-07	3.53E-05	1.20E-04	1.45E-07
4246	420844.34	3734364.21	3.73E-04	1.70E-03	3.73E-06	5.11E-05	2.33E-04	5.55E-07	3.14E-05	1.07E-04	1.29E-07
4247	420844.31	3734354.51	3.34E-04	1.53E-03	3.34E-06	4.58E-05	2.09E-04	4.97E-07	2.81E-05	9.59E-05	1.15E-07
4248	420844.27	3734344.81	3.00E-04	1.37E-03	3.00E-06	4.12E-05	1.88E-04	4.47E-07	2.53E-05	8.63E-05	1.04E-07
4249	420844.23	3734335.11	2.71E-04	1.24E-03	2.71E-06	3.71E-05	1.69E-04	4.03E-07	2.28E-05	7.79E-05	9.36E-08
4250	420844.2	3734325.4	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.65E-07	2.06E-05	7.04E-05	8.47E-08
4251	420844.16	3734315.7	2.22E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
4252	420844.13	3734306	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
4253	420843.46	3734444.33	1.28E-03	5.87E-03	1.28E-05	1.76E-04	8.03E-04	1.91E-06	1.08E-04	3.69E-04	4.44E-07
4254	420864.41	3734383.54	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.38E-05	1.15E-04	1.39E-07
4255	420864.38	3734373.84	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4256	420864.34	3734364.14	3.22E-04	1.47E-03	3.21E-06	4.41E-05	2.01E-04	4.79E-07	2.71E-05	9.24E-05	1.11E-07
4257	420864.31	3734354.44	2.91E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4258	420864.27	3734344.73	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.93E-07	2.22E-05	7.58E-05	9.11E-08
4259	420864.23	3734335.03	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.58E-07	2.02E-05	6.90E-05	8.30E-08
4260	420864.2	3734325.33	2.19E-04	1.00E-03	2.19E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.30E-05	7.58E-08
4261	420864.16	3734315.63	2.01E-04	9.18E-04	2.01E-06	2.75E-05	1.26E-04	2.99E-07	1.69E-05	5.77E-05	6.94E-08
4262	420864.13	3734305.93	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
4263	420884.27	3734344.66	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.02E-08
4264	420884.23	3734334.96	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
4265	420884.2	3734325.26	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
4266	420884.16	3734315.55	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4267	420884.13	3734305.85	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
4268	420884.09	3734296.15	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.65E-05	2.30E-07	1.30E-05	4.44E-05	5.33E-08
4269	420882.92	3734445.49	7.95E-04	3.64E-03	7.95E-06	1.09E-04	4.97E-04	1.18E-06	6.69E-05	2.29E-04	2.75E-07
4270	420904.41	3734383.39	2.95E-04	1.35E-03	2.95E-06	4.04E-05	1.84E-04	4.39E-07	2.48E-05	8.47E-05	1.02E-07
4271	420904.38	3734373.69	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.25E-05	7.67E-05	9.23E-08
4272	420904.27	3734344.59	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
4273	420904.23	3734334.88	1.89E-04	8.65E-04	1.89E-06	2.59E-05	1.18E-04	2.82E-07	1.59E-05	5.44E-05	6.54E-08
4274	420904.2	3734325.18	1.75E-04	8.01E-04	1.75E-06	2.40E-05	1.09E-04	2.61E-07	1.47E-05	5.03E-05	6.05E-08

4275	420904.16	3734315.48	1.62E-04	7.43E-04	1.62E-06	2.23E-05	1.02E-04	2.42E-07	1.37E-05	4.67E-05	5.61E-08
4276	420904.12	3734305.78	1.51E-04	6.90E-04	1.51E-06	2.07E-05	9.44E-05	2.25E-07	1.27E-05	4.34E-05	5.22E-08
4277	420904.09	3734296.08	1.40E-04	6.42E-04	1.40E-06	1.93E-05	8.78E-05	2.09E-07	1.18E-05	4.04E-05	4.85E-08
4278	420903.46	3734444.11	6.26E-04	2.86E-03	6.26E-06	8.58E-05	3.91E-04	9.32E-07	5.27E-05	1.80E-04	2.16E-07
4279	420924.41	3734383.32	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.34E-05	8.82E-08
4280	420924.38	3734373.62	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
4281	420924.27	3734344.51	1.81E-04	8.29E-04	1.81E-06	2.49E-05	1.13E-04	2.70E-07	1.53E-05	5.21E-05	6.27E-08
4282	420924.23	3734334.81	1.68E-04	7.69E-04	1.68E-06	2.31E-05	1.05E-04	2.50E-07	1.42E-05	4.84E-05	5.82E-08
4283	420924.2	3734325.11	1.57E-04	7.16E-04	1.57E-06	2.15E-05	9.79E-05	2.33E-07	1.32E-05	4.50E-05	5.41E-08
4284	420924.16	3734315.41	1.46E-04	6.68E-04	1.46E-06	2.00E-05	9.13E-05	2.17E-07	1.23E-05	4.20E-05	5.05E-08
4285	420924.12	3734305.7	1.36E-04	6.24E-04	1.36E-06	1.87E-05	8.53E-05	2.03E-07	1.15E-05	3.92E-05	4.71E-08
4286	420924.09	3734296	1.28E-04	5.83E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
4287	420922.58	3734446.16	5.32E-04	2.43E-03	5.31E-06	7.29E-05	3.32E-04	7.91E-07	4.47E-05	1.53E-04	1.84E-07
4288	420904.36	3734490.5	1.10E-03	5.01E-03	1.09E-05	1.50E-04	6.85E-04	1.63E-06	9.21E-05	3.15E-04	3.78E-07
4289	420944.41	3734383.25	2.23E-04	1.02E-03	2.23E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.40E-05	7.69E-08
4290	420944.38	3734373.54	2.04E-04	9.33E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.86E-05	7.05E-08
4291	420944.27	3734344.44	1.61E-04	7.37E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.63E-05	5.57E-08
4292	420944.23	3734334.74	1.50E-04	6.87E-04	1.50E-06	2.06E-05	9.39E-05	2.24E-07	1.26E-05	4.32E-05	5.19E-08
4293	420944.2	3734325.03	1.40E-04	6.41E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
4294	420944.16	3734315.33	1.31E-04	6.01E-04	1.31E-06	1.80E-05	8.21E-05	1.96E-07	1.11E-05	3.77E-05	4.54E-08
4295	420944.12	3734305.63	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.70E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
4296	420944.09	3734295.93	1.16E-04	5.29E-04	1.16E-06	1.59E-05	7.24E-05	1.72E-07	9.74E-06	3.33E-05	4.00E-08
4297	420943.07	3734444.9	4.34E-04	1.99E-03	4.34E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
4298	420964.41	3734383.17	1.96E-04	8.94E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.65E-05	5.62E-05	6.76E-08
4299	420964.38	3734373.47	1.80E-04	8.23E-04	1.80E-06	2.47E-05	1.13E-04	2.68E-07	1.51E-05	5.17E-05	6.22E-08
4300	420964.27	3734344.36	1.44E-04	6.58E-04	1.44E-06	1.97E-05	9.00E-05	2.14E-07	1.21E-05	4.14E-05	4.98E-08
4301	420964.23	3734334.66	1.35E-04	6.15E-04	1.34E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
4302	420964.2	3734324.96	1.26E-04	5.76E-04	1.26E-06	1.73E-05	7.88E-05	1.88E-07	1.06E-05	3.62E-05	4.36E-08
4303	420964.16	3734315.26	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
4304	420964.12	3734305.56	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.97E-05	1.66E-07	9.37E-06	3.20E-05	3.85E-08
4305	420964.09	3734295.85	1.05E-04	4.81E-04	1.05E-06	1.44E-05	6.57E-05	1.56E-07	8.84E-06	3.02E-05	3.63E-08
4306	420943.93	3734491.38	7.11E-04	3.25E-03	7.10E-06	9.74E-05	4.44E-04	1.06E-06	5.98E-05	2.04E-04	2.46E-07
4307	420940.25	3734500.35	8.03E-04	3.67E-03	8.03E-06	1.10E-04	5.02E-04	1.20E-06	6.76E-05	2.31E-04	2.78E-07
4308	420887.62	3734574.23	2.27E-03	1.04E-02	2.27E-05	3.12E-04	1.42E-03	3.38E-06	1.91E-04	6.53E-04	7.85E-07
4309	420807.09	3734607.68	5.19E-03	2.37E-02	5.19E-05	7.12E-04	3.25E-03	7.73E-06	4.37E-04	1.49E-03	1.79E-06
4310	420964.74	3734489.35	5.69E-04	2.60E-03	5.69E-06	7.80E-05	3.56E-04	8.47E-07	4.79E-05	1.63E-04	1.97E-07
4311	420902.33	3734588.12	1.94E-03	8.89E-03	1.94E-05	2.67E-04	1.22E-03	2.90E-06	1.64E-04	5.59E-04	6.72E-07
4312	420823.39	3734620.91	4.02E-03	1.84E-02	4.02E-05	5.52E-04	2.52E-03	5.99E-06	3.39E-04	1.16E-03	1.39E-06
4313	421004.41	3734383.02	1.54E-04	7.04E-04	1.54E-06	2.11E-05	9.62E-05	2.29E-07	1.29E-05	4.42E-05	5.32E-08
4314	421004.38	3734373.32	1.43E-04	6.53E-04	1.43E-06	1.96E-05	8.92E-05	2.12E-07	1.20E-05	4.10E-05	4.93E-08
4315	421004.27	3734344.22	1.16E-04	5.31E-04	1.16E-06	1.59E-05	7.26E-05	1.73E-07	9.77E-06	3.34E-05	4.01E-08
4316	421004.23	3734334.51	1.09E-04	4.99E-04	1.09E-06	1.49E-05	6.82E-05	1.62E-07	9.17E-06	3.13E-05	3.77E-08
4317	421004.2	3734324.81	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
4318	421004.16	3734315.11	9.69E-05	4.43E-04	9.69E-07	1.33E-05	6.06E-05	1.44E-07	8.15E-06	2.79E-05	3.35E-08
4319	421004.12	3734305.41	9.18E-05	4.20E-04	9.17E-07	1.26E-05	5.74E-05	1.37E-07	7.72E-06	2.64E-05	3.17E-08
4320	421004.09	3734295.71	8.71E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.33E-06	2.50E-05	3.01E-08
4321	421003.15	3734444.48	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.01E-07	2.27E-05	7.74E-05	9.31E-08
4322	420891.06	3734612.8	2.18E-03	9.98E-03	2.18E-05	2.99E-04	1.36E-03	3.25E-06	1.84E-04	6.27E-04	7.54E-07
4323	420839.32	3734634.29	3.21E-03	1.47E-02	3.21E-05	4.40E-04	2.01E-03	4.78E-06	2.70E-04	9.22E-04	1.11E-06
4324	421024.41	3734382.95	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.59E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
4325	421024.38	3734373.25	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.99E-05	1.90E-07	1.08E-05	3.67E-05	4.42E-08
4326	421024.27	3734344.14	1.05E-04	4.80E-04	1.05E-06	1.44E-05	6.56E-05	1.56E-07	8.83E-06	3.01E-05	3.63E-08
4327	421024.23	3734334.44	9.88E-05	4.52E-04	9.87E-07	1.35E-05	6.18E-05	1.47E-07	8.31E-06	2.84E-05	3.41E-08
4328	421024.2	3734324.74	9.32E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.84E-06	2.68E-05	3.22E-08
4329	421024.16	3734315.04	8.82E-05	4.03E-04	8.81E-07	1.21E-05	5.51E-05	1.31E-07	7.42E-06	2.53E-05	3.05E-08
4330	421024.12	3734305.33	8.37E-05	3.82E-04	8.36E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.40E-05	2.89E-08
4331	421024.09	3734295.63	7.96E-05	3.64E-04	7.95E-07	1.09E-05	4.97E-05	1.18E-07	6.69E-06	2.29E-05	2.75E-08
4332	421022.58	3734445.79	2.38E-04	1.09E-03	2.38E-06	3.26E-05	1.49E-04	3.54E-07	2.00E-05	6.84E-05	8.23E-08
4333	421004.36	3734490.13	4.05E-04	1.85E-03	4.05E-06	5.55E-05	2.53E-04	6.03E-07	3.41E-05	1.16E-04	1.40E-07
4334	420975.2	3734561.08	8.25E-04	3.77E-03	8.25E-06	1.13E-04	5.16E-04	1.23E-06	6.94E-05	2.37E-04	2.85E-07
4335	420971.55	3734569.95	8.83E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.31E-06	7.43E-05	2.54E-04	3.05E-07
4336	420967.91	3734578.82	9.41E-04	4.30E-03	9.41E-06	1.29E-04	5.89E-04	1.40E-06	7.92E-05	2.71E-04	3.25E-07

4337	420964.26	3734587.69	1.00E-03	4.59E-03	1.00E-05	1.38E-04	6.28E-04	1.49E-06	8.44E-05	2.88E-04	3.47E-07
4338	420930.41	3734616.46	1.46E-03	6.70E-03	1.46E-05	2.01E-04	9.16E-04	2.18E-06	1.23E-04	4.21E-04	5.06E-07
4339	420850.71	3734649.56	2.66E-03	1.22E-02	2.66E-05	3.65E-04	1.66E-03	3.96E-06	2.24E-04	7.65E-04	9.20E-07
4340	421044.45	3734392.58	1.31E-04	5.99E-04	1.31E-06	1.79E-05	8.19E-05	1.95E-07	1.10E-05	3.76E-05	4.52E-08
4341	421044.41	3734382.87	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.70E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
4342	421044.38	3734373.17	1.15E-04	5.26E-04	1.15E-06	1.58E-05	7.19E-05	1.71E-07	9.68E-06	3.31E-05	3.98E-08
4343	421044.27	3734344.07	9.50E-05	4.35E-04	9.50E-07	1.30E-05	5.94E-05	1.41E-07	8.00E-06	2.73E-05	3.28E-08
4344	421044.23	3734334.36	8.97E-05	4.10E-04	8.96E-07	1.23E-05	5.61E-05	1.33E-07	7.54E-06	2.58E-05	3.10E-08
4345	421044.2	3734324.66	8.48E-05	3.88E-04	8.47E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
4346	421044.16	3734314.96	8.04E-05	3.68E-04	8.03E-07	1.10E-05	5.03E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
4347	421044.12	3734305.26	7.64E-05	3.49E-04	7.64E-07	1.05E-05	4.78E-05	1.14E-07	6.43E-06	2.20E-05	2.64E-08
4348	421062.42	3734446.04	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4349	421055.07	3734463.9	2.21E-04	1.01E-03	2.21E-06	3.03E-05	1.38E-04	3.29E-07	1.86E-05	6.36E-05	7.64E-08
4350	421051.4	3734472.84	2.44E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.02E-05	8.45E-08
4351	421047.73	3734481.77	2.70E-04	1.23E-03	2.70E-06	3.70E-05	1.69E-04	4.01E-07	2.27E-05	7.75E-05	9.32E-08
4352	421044.06	3734490.71	2.97E-04	1.36E-03	2.97E-06	4.07E-05	1.86E-04	4.42E-07	2.50E-05	8.53E-05	1.03E-07
4353	421014.69	3734562.18	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.75E-07	4.95E-05	1.69E-04	2.03E-07
4354	420992.66	3734615.79	8.40E-04	3.84E-03	8.40E-06	1.15E-04	5.25E-04	1.25E-06	7.07E-05	2.41E-04	2.90E-07
4355	420988.98	3734624.73	8.79E-04	4.02E-03	8.79E-06	1.21E-04	5.50E-04	1.31E-06	7.40E-05	2.53E-04	3.04E-07
4356	420958.55	3734644.77	1.15E-03	5.25E-03	1.15E-05	1.57E-04	7.18E-04	1.71E-06	9.66E-05	3.30E-04	3.97E-07
4357	420878.26	3734678.12	1.88E-03	8.58E-03	1.88E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
4358	421052.96	3734566.22	4.45E-04	2.03E-03	4.45E-06	6.10E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
4359	421049.39	3734574.92	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	4.00E-05	1.36E-04	1.64E-07
4360	421045.82	3734583.62	5.05E-04	2.31E-03	5.05E-06	6.93E-05	3.16E-04	7.52E-07	4.25E-05	1.45E-04	1.75E-07
4361	421042.24	3734592.31	5.36E-04	2.45E-03	5.35E-06	7.34E-05	3.35E-04	7.97E-07	4.51E-05	1.54E-04	1.85E-07
4362	420987.6	3734672.71	9.07E-04	4.15E-03	9.07E-06	1.24E-04	5.67E-04	1.35E-06	7.63E-05	2.61E-04	3.14E-07
4363	420961.55	3734683.53	1.07E-03	4.89E-03	1.07E-05	1.47E-04	6.68E-04	1.59E-06	8.99E-05	3.07E-04	3.69E-07
4364	420909.44	3734705.17	1.37E-03	6.27E-03	1.37E-05	1.88E-04	8.57E-04	2.04E-06	1.15E-04	3.94E-04	4.74E-07
4365	421124.45	3734392.28	8.98E-05	4.11E-04	8.98E-07	1.23E-05	5.62E-05	1.34E-07	7.56E-06	2.58E-05	3.10E-08
4366	421124.41	3734382.58	8.44E-05	3.86E-04	8.43E-07	1.16E-05	5.27E-05	1.26E-07	7.10E-06	2.42E-05	2.91E-08
4367	421124.38	3734372.88	7.94E-05	3.63E-04	7.94E-07	1.09E-05	4.96E-05	1.18E-07	6.68E-06	2.28E-05	2.74E-08
4368	421124.3	3734353.47	7.08E-05	3.24E-04	7.08E-07	9.71E-06	4.43E-05	1.05E-07	5.96E-06	2.03E-05	2.45E-08
4369	421124.27	3734343.77	6.71E-05	3.07E-04	6.71E-07	9.20E-06	4.19E-05	9.99E-08	5.64E-06	1.93E-05	2.32E-08
4370	421124.23	3734334.07	6.37E-05	2.91E-04	6.37E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
4371	421124.2	3734324.37	6.06E-05	2.77E-04	6.06E-07	8.31E-06	3.79E-05	9.02E-08	5.10E-06	1.74E-05	2.09E-08
4372	421124.16	3734314.66	5.78E-05	2.64E-04	5.78E-07	7.92E-06	3.61E-05	8.60E-08	4.86E-06	1.66E-05	2.00E-08
4373	421124.12	3734304.96	5.52E-05	2.52E-04	5.52E-07	7.57E-06	3.45E-05	8.22E-08	4.64E-06	1.59E-05	1.91E-08
4374	421124.09	3734295.26	5.28E-05	2.42E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.83E-08
4375	421142.84	3734444.72	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.15E-05	1.70E-07	9.62E-06	3.28E-05	3.95E-08
4376	421135.63	3734462.25	1.33E-04	6.08E-04	1.33E-06	1.82E-05	8.31E-05	1.98E-07	1.12E-05	3.82E-05	4.60E-08
4377	421132.03	3734471.01	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.07E-05	2.16E-07	1.22E-05	4.17E-05	5.01E-08
4378	421128.43	3734479.78	1.58E-04	7.22E-04	1.58E-06	2.17E-05	9.88E-05	2.35E-07	1.33E-05	4.54E-05	5.46E-08
4379	421124.83	3734488.54	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.95E-08
4380	421088.81	3734576.19	3.63E-04	1.66E-03	3.63E-06	4.97E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
4381	421085.21	3734584.95	3.86E-04	1.77E-03	3.86E-06	5.29E-05	2.41E-04	5.75E-07	3.25E-05	1.11E-04	1.33E-07
4382	421081.61	3734593.71	4.09E-04	1.87E-03	4.09E-06	5.61E-05	2.56E-04	6.09E-07	3.44E-05	1.18E-04	1.41E-07
4383	421078	3734602.48	4.32E-04	1.98E-03	4.32E-06	5.93E-05	2.70E-04	6.43E-07	3.64E-05	1.24E-04	1.49E-07
4384	421074.4	3734611.24	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
4385	421033.23	3734693.76	6.56E-04	3.00E-03	6.55E-06	8.99E-05	4.10E-04	9.76E-07	5.52E-05	1.88E-04	2.27E-07
4386	421024.48	3734697.39	6.93E-04	3.17E-03	6.92E-06	9.49E-05	4.33E-04	1.03E-06	5.83E-05	1.99E-04	2.39E-07
4387	421015.73	3734701.03	7.31E-04	3.34E-03	7.30E-06	1.00E-04	4.57E-04	1.09E-06	6.15E-05	2.10E-04	2.52E-07
4388	420989.48	3734711.93	8.44E-04	3.86E-03	8.43E-06	1.16E-04	5.27E-04	1.26E-06	7.10E-05	2.42E-04	2.91E-07
4389	420980.73	3734715.56	8.80E-04	4.02E-03	8.79E-06	1.21E-04	5.50E-04	1.31E-06	7.40E-05	2.53E-04	3.04E-07
4390	420971.98	3734719.2	9.15E-04	4.18E-03	9.15E-06	1.25E-04	5.72E-04	1.36E-06	7.70E-05	2.63E-04	3.16E-07
4391	421164.3	3734353.32	6.06E-05	2.77E-04	6.06E-07	8.31E-06	3.79E-05	9.02E-08	5.10E-06	1.74E-05	2.09E-08
4392	421164.27	3734343.62	5.76E-05	2.63E-04	5.75E-07	7.89E-06	3.60E-05	8.57E-08	4.84E-06	1.65E-05	1.99E-08
4393	421164.23	3734333.92	5.48E-05	2.50E-04	5.47E-07	7.51E-06	3.42E-05	8.15E-08	4.61E-06	1.57E-05	1.89E-08
4394	421164.2	3734324.22	5.22E-05	2.39E-04	5.22E-07	7.15E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4395	421164.16	3734314.52	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
4396	421164.12	3734304.81	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
4397	421164.09	3734295.11	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
4398	421182.7	3734444.91	9.73E-05	4.45E-04	9.73E-07	1.33E-05	6.08E-05	1.45E-07	8.19E-06	2.80E-05	3.36E-08

4399	421175.45	3734462.55	1.12E-04	5.13E-04	1.12E-06	1.54E-05	7.01E-05	1.67E-07	9.44E-06	3.22E-05	3.88E-08
4400	421171.82	3734471.37	1.21E-04	5.54E-04	1.21E-06	1.66E-05	7.58E-05	1.80E-07	1.02E-05	3.48E-05	4.19E-08
4401	421168.2	3734480.19	1.31E-04	5.98E-04	1.31E-06	1.79E-05	8.17E-05	1.95E-07	1.10E-05	3.76E-05	4.52E-08
4402	421164.57	3734489.01	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.80E-05	2.10E-07	1.18E-05	4.05E-05	4.87E-08
4403	421131.95	3734568.4	2.63E-04	1.20E-03	2.63E-06	3.60E-05	1.64E-04	3.91E-07	2.21E-05	7.55E-05	9.08E-08
4404	421128.32	3734577.22	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.69E-08
4405	421124.7	3734586.04	2.99E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4406	421121.07	3734594.86	3.17E-04	1.45E-03	3.17E-06	4.34E-05	1.98E-04	4.72E-07	2.67E-05	9.11E-05	1.10E-07
4407	421117.45	3734603.68	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.64E-05	1.16E-07
4408	421061.51	3734722.01	5.48E-04	2.51E-03	5.48E-06	7.52E-05	3.43E-04	8.16E-07	4.61E-05	1.58E-04	1.89E-07
4409	421052.71	3734725.67	5.76E-04	2.63E-03	5.75E-06	7.89E-05	3.60E-04	8.57E-07	4.84E-05	1.65E-04	1.99E-07
4410	421043.9	3734729.33	6.02E-04	2.75E-03	6.02E-06	8.25E-05	3.76E-04	8.96E-07	5.06E-05	1.73E-04	2.08E-07
4411	420964.63	3734762.25	8.12E-04	3.71E-03	8.12E-06	1.11E-04	5.08E-04	1.21E-06	6.84E-05	2.33E-04	2.81E-07
4412	420955.83	3734765.91	8.34E-04	3.81E-03	8.33E-06	1.14E-04	5.21E-04	1.24E-06	7.01E-05	2.40E-04	2.88E-07
4413	420947.02	3734769.56	8.54E-04	3.91E-03	8.54E-06	1.17E-04	5.34E-04	1.27E-06	7.19E-05	2.45E-04	2.95E-07
4414	420938.21	3734773.22	8.71E-04	3.98E-03	8.71E-06	1.19E-04	5.45E-04	1.30E-06	7.33E-05	2.50E-04	3.01E-07
4415	420929.4	3734776.88	8.85E-04	4.05E-03	8.84E-06	1.21E-04	5.53E-04	1.32E-06	7.44E-05	2.54E-04	3.06E-07
4416	420920.6	3734780.54	8.92E-04	4.08E-03	8.92E-06	1.22E-04	5.58E-04	1.33E-06	7.51E-05	2.56E-04	3.08E-07
4417	420911.79	3734784.19	8.95E-04	4.09E-03	8.94E-06	1.23E-04	5.59E-04	1.33E-06	7.53E-05	2.57E-04	3.09E-07
4418	420902.98	3734787.85	8.92E-04	4.08E-03	8.91E-06	1.22E-04	5.58E-04	1.33E-06	7.50E-05	2.56E-04	3.08E-07
4419	420894.17	3734791.51	8.84E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.32E-06	7.43E-05	2.54E-04	3.05E-07
4420	420885.37	3734795.17	8.70E-04	3.98E-03	8.69E-06	1.19E-04	5.44E-04	1.29E-06	7.32E-05	2.50E-04	3.00E-07
4421	420876.56	3734798.82	8.49E-04	3.88E-03	8.49E-06	1.16E-04	5.31E-04	1.26E-06	7.15E-05	2.44E-04	2.94E-07
4422	420867.75	3734802.48	8.24E-04	3.77E-03	8.23E-06	1.13E-04	5.15E-04	1.23E-06	6.93E-05	2.37E-04	2.85E-07
4423	420858.95	3734806.14	7.92E-04	3.62E-03	7.92E-06	1.09E-04	4.95E-04	1.18E-06	6.67E-05	2.28E-04	2.74E-07
4424	420850.14	3734809.8	7.56E-04	3.46E-03	7.56E-06	1.04E-04	4.73E-04	1.13E-06	6.36E-05	2.17E-04	2.61E-07
4425	420841.33	3734813.46	7.17E-04	3.28E-03	7.17E-06	9.83E-05	4.48E-04	1.07E-06	6.03E-05	2.06E-04	2.48E-07
4426	420832.52	3734817.11	6.75E-04	3.09E-03	6.75E-06	9.25E-05	4.22E-04	1.00E-06	5.68E-05	1.94E-04	2.33E-07
4427	420823.72	3734820.77	6.31E-04	2.88E-03	6.30E-06	8.64E-05	3.94E-04	9.39E-07	5.31E-05	1.81E-04	2.18E-07
4428	420814.91	3734824.43	5.85E-04	2.67E-03	5.85E-06	8.02E-05	3.66E-04	8.71E-07	4.92E-05	1.68E-04	2.02E-07
4429	420806.1	3734828.09	5.39E-04	2.46E-03	5.38E-06	7.39E-05	3.37E-04	8.02E-07	4.53E-05	1.55E-04	1.86E-07
4430	420797.29	3734831.74	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4431	420788.49	3734835.4	4.48E-04	2.05E-03	4.48E-06	6.14E-05	2.80E-04	6.67E-07	3.77E-05	1.29E-04	1.55E-07
4432	420779.68	3734839.06	4.05E-04	1.85E-03	4.05E-06	5.55E-05	2.53E-04	6.03E-07	3.41E-05	1.16E-04	1.40E-07
4433	420770.87	3734842.72	3.64E-04	1.67E-03	3.64E-06	5.00E-05	2.28E-04	5.43E-07	3.07E-05	1.05E-04	1.26E-07
4434	420762.06	3734846.37	3.26E-04	1.49E-03	3.26E-06	4.47E-05	2.04E-04	4.86E-07	2.74E-05	9.37E-05	1.13E-07
4435	420753.26	3734850.03	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4436	421204.45	3734391.98	6.45E-05	2.95E-04	6.45E-07	8.85E-06	4.04E-05	9.61E-08	5.43E-06	1.85E-05	2.23E-08
4437	421204.41	3734382.28	6.11E-05	2.79E-04	6.11E-07	8.38E-06	3.82E-05	9.10E-08	5.14E-06	1.76E-05	2.11E-08
4438	421204.37	3734372.58	5.79E-05	2.65E-04	5.79E-07	7.94E-06	3.62E-05	8.62E-08	4.87E-06	1.66E-05	2.00E-08
4439	421204.3	3734353.18	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4440	421204.27	3734343.47	4.97E-05	2.27E-04	4.97E-07	6.82E-06	3.11E-05	7.40E-08	4.18E-06	1.43E-05	1.72E-08
4441	421204.23	3734333.77	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.97E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
4442	421204.19	3734324.07	4.53E-05	2.07E-04	4.53E-07	6.22E-06	2.83E-05	6.75E-08	3.81E-06	1.30E-05	1.57E-08
4443	421204.16	3734314.37	4.34E-05	1.98E-04	4.34E-07	5.95E-06	2.71E-05	6.46E-08	3.65E-06	1.25E-05	1.50E-08
4444	421204.12	3734304.67	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
4445	421204.09	3734294.96	4.00E-05	1.83E-04	4.00E-07	5.48E-06	2.50E-05	5.95E-08	3.36E-06	1.15E-05	1.38E-08
4446	421222.58	3734445.05	8.18E-05	3.74E-04	8.17E-07	1.12E-05	5.11E-05	1.22E-07	6.88E-06	2.35E-05	2.83E-08
4447	421215.29	3734462.79	9.37E-05	4.28E-04	9.36E-07	1.28E-05	5.86E-05	1.39E-07	7.88E-06	2.69E-05	3.24E-08
4448	421211.64	3734471.65	1.00E-04	4.59E-04	1.00E-06	1.38E-05	6.27E-05	1.49E-07	8.44E-06	2.88E-05	3.47E-08
4449	421208	3734480.52	1.08E-04	4.92E-04	1.08E-06	1.47E-05	6.73E-05	1.60E-07	9.05E-06	3.09E-05	3.72E-08
4450	421204.35	3734489.39	1.15E-04	5.27E-04	1.15E-06	1.58E-05	7.21E-05	1.72E-07	9.70E-06	3.31E-05	3.99E-08
4451	421171.55	3734569.21	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.09E-08
4452	421167.91	3734578.08	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
4453	421164.26	3734586.95	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
4454	421160.62	3734595.82	2.46E-04	1.13E-03	2.46E-06	3.38E-05	1.54E-04	3.67E-07	2.07E-05	7.08E-05	8.51E-08
4455	421156.97	3734604.69	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.88E-07	2.19E-05	7.49E-05	9.01E-08
4456	421153.33	3734613.55	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.10E-07	2.32E-05	7.91E-05	9.51E-08
4457	421149.68	3734622.42	2.90E-04	1.32E-03	2.89E-06	3.97E-05	1.81E-04	4.31E-07	2.44E-05	8.32E-05	1.00E-07
4458	421146.04	3734631.29	3.04E-04	1.39E-03	3.04E-06	4.16E-05	1.90E-04	4.52E-07	2.56E-05	8.73E-05	1.05E-07
4459	421142.4	3734640.16	3.18E-04	1.45E-03	3.18E-06	4.36E-05	1.99E-04	4.73E-07	2.67E-05	9.13E-05	1.10E-07
4460	421138.75	3734649.03	3.31E-04	1.51E-03	3.31E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07

4461	421135.11	3734657.9	3.43E-04	1.57E-03	3.43E-06	4.70E-05	2.14E-04	5.11E-07	2.89E-05	9.86E-05	1.19E-07
4462	421131.46	3734666.77	3.55E-04	1.62E-03	3.55E-06	4.87E-05	2.22E-04	5.28E-07	2.99E-05	1.02E-04	1.23E-07
4463	421127.82	3734675.64	3.67E-04	1.68E-03	3.67E-06	5.03E-05	2.30E-04	5.47E-07	3.09E-05	1.05E-04	1.27E-07
4464	421124.17	3734684.51	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
4465	421120.53	3734693.37	3.90E-04	1.78E-03	3.90E-06	5.35E-05	2.44E-04	5.81E-07	3.28E-05	1.12E-04	1.35E-07
4466	421089.8	3734750.26	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
4467	421080.95	3734753.94	4.82E-04	2.20E-03	4.82E-06	6.60E-05	3.01E-04	7.17E-07	4.05E-05	1.38E-04	1.66E-07
4468	421072.09	3734757.62	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.14E-04	7.47E-07	4.22E-05	1.44E-04	1.73E-07
4469	421045.53	3734768.65	5.54E-04	2.53E-03	5.53E-06	7.59E-05	3.46E-04	8.24E-07	4.66E-05	1.59E-04	1.91E-07
4470	421036.67	3734772.33	5.71E-04	2.61E-03	5.70E-06	7.82E-05	3.57E-04	8.49E-07	4.80E-05	1.64E-04	1.97E-07
4471	421027.82	3734776.01	5.87E-04	2.69E-03	5.87E-06	8.05E-05	3.67E-04	8.74E-07	4.94E-05	1.69E-04	2.03E-07
4472	420992.4	3734790.72	6.52E-04	2.98E-03	6.51E-06	8.93E-05	4.07E-04	9.70E-07	5.48E-05	1.87E-04	2.25E-07
4473	420983.54	3734794.4	6.67E-04	3.05E-03	6.67E-06	9.14E-05	4.17E-04	9.93E-07	5.61E-05	1.92E-04	2.31E-07
4474	420974.69	3734798.07	6.82E-04	3.12E-03	6.81E-06	9.34E-05	4.26E-04	1.01E-06	5.73E-05	1.96E-04	2.36E-07
4475	420965.83	3734801.75	6.94E-04	3.17E-03	6.94E-06	9.51E-05	4.34E-04	1.03E-06	5.84E-05	1.99E-04	2.40E-07
4476	420956.98	3734805.43	7.04E-04	3.22E-03	7.04E-06	9.66E-05	4.40E-04	1.05E-06	5.93E-05	2.02E-04	2.43E-07
4477	420948.12	3734809.11	7.13E-04	3.26E-03	7.13E-06	9.78E-05	4.46E-04	1.06E-06	6.00E-05	2.05E-04	2.46E-07
4478	420939.26	3734812.78	7.19E-04	3.29E-03	7.18E-06	9.85E-05	4.49E-04	1.07E-06	6.05E-05	2.07E-04	2.48E-07
4479	420930.41	3734816.46	7.21E-04	3.30E-03	7.20E-06	9.88E-05	4.51E-04	1.07E-06	6.06E-05	2.07E-04	2.49E-07
4480	420921.55	3734820.14	7.18E-04	3.28E-03	7.18E-06	9.84E-05	4.49E-04	1.07E-06	6.04E-05	2.06E-04	2.48E-07
4481	420912.7	3734823.82	7.11E-04	3.25E-03	7.11E-06	9.75E-05	4.45E-04	1.06E-06	5.98E-05	2.04E-04	2.46E-07
4482	420903.84	3734827.49	7.01E-04	3.20E-03	7.00E-06	9.60E-05	4.38E-04	1.04E-06	5.89E-05	2.01E-04	2.42E-07
4483	420894.99	3734831.17	6.86E-04	3.13E-03	6.85E-06	9.40E-05	4.29E-04	1.02E-06	5.77E-05	1.97E-04	2.37E-07
4484	420886.13	3734834.85	6.66E-04	3.05E-03	6.66E-06	9.14E-05	4.17E-04	9.92E-07	5.61E-05	1.91E-04	2.30E-07
4485	420877.28	3734838.53	6.44E-04	2.94E-03	6.43E-06	8.83E-05	4.03E-04	9.58E-07	5.42E-05	1.85E-04	2.22E-07
4486	420868.42	3734842.2	6.18E-04	2.83E-03	6.18E-06	8.47E-05	3.86E-04	9.20E-07	5.20E-05	1.78E-04	2.14E-07
4487	420859.57	3734845.88	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
4488	420850.71	3734849.56	5.59E-04	2.55E-03	5.58E-06	7.66E-05	3.49E-04	8.32E-07	4.70E-05	1.61E-04	1.93E-07
4489	420841.86	3734853.24	5.26E-04	2.41E-03	5.26E-06	7.21E-05	3.29E-04	7.83E-07	4.43E-05	1.51E-04	1.82E-07
4490	420833	3734856.91	4.92E-04	2.25E-03	4.92E-06	6.75E-05	3.08E-04	7.33E-07	4.14E-05	1.42E-04	1.70E-07
4491	420824.15	3734860.59	4.58E-04	2.09E-03	4.58E-06	6.28E-05	2.86E-04	6.82E-07	3.85E-05	1.32E-04	1.58E-07
4492	420815.29	3734864.27	4.23E-04	1.94E-03	4.23E-06	5.80E-05	2.65E-04	6.30E-07	3.56E-05	1.22E-04	1.46E-07
4493	420806.44	3734867.95	3.89E-04	1.78E-03	3.89E-06	5.34E-05	2.43E-04	5.79E-07	3.27E-05	1.12E-04	1.35E-07
4494	420797.58	3734871.62	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	2.99E-05	1.02E-04	1.23E-07
4495	420788.73	3734875.3	3.24E-04	1.48E-03	3.24E-06	4.44E-05	2.03E-04	4.82E-07	2.73E-05	9.31E-05	1.12E-07
4496	420779.87	3734878.98	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
4497	420771.02	3734882.66	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.58E-05	9.11E-08
4498	420762.16	3734886.33	2.36E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.79E-05	8.17E-08
4499	420753.31	3734890.01	2.11E-04	9.67E-04	2.11E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.08E-05	7.31E-08
4500	421262.48	3734445.15	6.96E-05	3.18E-04	6.95E-07	9.53E-06	4.35E-05	1.04E-07	5.85E-06	2.00E-05	2.40E-08
4501	421258.81	3734454.06	7.42E-05	3.39E-04	7.41E-07	1.02E-05	4.64E-05	1.10E-07	6.24E-06	2.13E-05	2.56E-08
4502	421255.15	3734462.97	7.91E-05	3.62E-04	7.90E-07	1.08E-05	4.94E-05	1.18E-07	6.65E-06	2.27E-05	2.73E-08
4503	421251.49	3734471.88	8.43E-05	3.86E-04	8.43E-07	1.16E-05	5.27E-05	1.26E-07	7.10E-06	2.42E-05	2.91E-08
4504	421207.55	3734578.8	1.74E-04	7.97E-04	1.74E-06	2.39E-05	1.09E-04	2.59E-07	1.47E-05	5.01E-05	6.02E-08
4505	421203.89	3734587.71	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.75E-07	1.55E-05	5.30E-05	6.37E-08
4506	421200.23	3734596.62	1.95E-04	8.92E-04	1.95E-06	2.67E-05	1.22E-04	2.90E-07	1.64E-05	5.60E-05	6.74E-08
4507	421196.57	3734605.53	2.06E-04	9.44E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.74E-05	5.93E-05	7.13E-08
4508	421192.91	3734614.44	2.18E-04	9.95E-04	2.18E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.52E-08
4509	421189.24	3734623.35	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.58E-05	7.91E-08
4510	421185.58	3734632.26	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.58E-07	2.02E-05	6.90E-05	8.30E-08
4511	421181.92	3734641.17	2.51E-04	1.15E-03	2.51E-06	3.45E-05	1.57E-04	3.74E-07	2.12E-05	7.23E-05	8.69E-08
4512	421178.26	3734650.08	2.63E-04	1.20E-03	2.63E-06	3.60E-05	1.64E-04	3.91E-07	2.21E-05	7.55E-05	9.08E-08
4513	421174.6	3734658.99	2.74E-04	1.25E-03	2.74E-06	3.75E-05	1.71E-04	4.08E-07	2.30E-05	7.87E-05	9.46E-08
4514	421170.94	3734667.9	2.85E-04	1.30E-03	2.84E-06	3.90E-05	1.78E-04	4.24E-07	2.39E-05	8.18E-05	9.83E-08
4515	421167.27	3734676.81	2.95E-04	1.35E-03	2.95E-06	4.05E-05	1.85E-04	4.40E-07	2.49E-05	8.49E-05	1.02E-07
4516	421163.61	3734685.72	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.91E-04	4.56E-07	2.57E-05	8.79E-05	1.06E-07
4517	421159.95	3734694.63	3.16E-04	1.45E-03	3.16E-06	4.34E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
4518	421156.29	3734703.54	3.26E-04	1.49E-03	3.26E-06	4.47E-05	2.04E-04	4.85E-07	2.74E-05	9.37E-05	1.13E-07
4519	421152.63	3734712.45	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.09E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
4520	421148.97	3734721.36	3.44E-04	1.57E-03	3.44E-06	4.71E-05	2.15E-04	5.12E-07	2.89E-05	9.88E-05	1.19E-07
4521	421073.62	3734796.99	4.65E-04	2.13E-03	4.65E-06	6.38E-05	2.91E-04	6.93E-07	3.91E-05	1.34E-04	1.61E-07
4522	421064.72	3734800.68	4.79E-04	2.19E-03	4.79E-06	6.57E-05	3.00E-04	7.13E-07	4.03E-05	1.38E-04	1.66E-07

4523	421055.82	3734804.38	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4524	421020.24	3734819.15	5.39E-04	2.47E-03	5.39E-06	7.39E-05	3.37E-04	8.03E-07	4.54E-05	1.55E-04	1.86E-07
4525	420993.55	3734830.24	5.68E-04	2.60E-03	5.68E-06	7.78E-05	3.55E-04	8.45E-07	4.78E-05	1.63E-04	1.96E-07
4526	420984.65	3734833.93	5.76E-04	2.63E-03	5.76E-06	7.90E-05	3.60E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
4527	420975.76	3734837.63	5.83E-04	2.67E-03	5.83E-06	7.99E-05	3.65E-04	8.68E-07	4.91E-05	1.68E-04	2.02E-07
4528	420966.86	3734841.32	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.76E-07	4.95E-05	1.69E-04	2.03E-07
4529	420957.96	3734845.02	5.91E-04	2.70E-03	5.91E-06	8.10E-05	3.70E-04	8.80E-07	4.97E-05	1.70E-04	2.04E-07
4530	420949.07	3734848.71	5.91E-04	2.70E-03	5.91E-06	8.11E-05	3.70E-04	8.80E-07	4.98E-05	1.70E-04	2.04E-07
4531	420940.17	3734852.41	5.89E-04	2.69E-03	5.89E-06	8.07E-05	3.68E-04	8.77E-07	4.96E-05	1.69E-04	2.04E-07
4532	420931.27	3734856.1	5.84E-04	2.67E-03	5.84E-06	8.00E-05	3.65E-04	8.69E-07	4.91E-05	1.68E-04	2.02E-07
4533	420922.38	3734859.8	5.76E-04	2.63E-03	5.75E-06	7.89E-05	3.60E-04	8.57E-07	4.84E-05	1.65E-04	1.99E-07
4534	420913.48	3734863.49	5.65E-04	2.58E-03	5.64E-06	7.74E-05	3.53E-04	8.40E-07	4.75E-05	1.62E-04	1.95E-07
4535	420904.59	3734867.19	5.50E-04	2.52E-03	5.50E-06	7.55E-05	3.44E-04	8.19E-07	4.63E-05	1.58E-04	1.90E-07
4536	420895.69	3734870.88	5.34E-04	2.44E-03	5.33E-06	7.32E-05	3.34E-04	7.94E-07	4.49E-05	1.53E-04	1.84E-07
4537	420886.79	3734874.58	5.14E-04	2.35E-03	5.14E-06	7.05E-05	3.22E-04	7.66E-07	4.33E-05	1.48E-04	1.78E-07
4538	420877.9	3734878.27	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4539	420869	3734881.96	4.70E-04	2.15E-03	4.69E-06	6.44E-05	2.94E-04	6.99E-07	3.95E-05	1.35E-04	1.62E-07
4540	420860.1	3734885.66	4.45E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
4541	420851.21	3734889.35	4.19E-04	1.91E-03	4.18E-06	5.74E-05	2.62E-04	6.23E-07	3.52E-05	1.20E-04	1.45E-07
4542	420842.31	3734893.05	3.92E-04	1.79E-03	3.92E-06	5.37E-05	2.45E-04	5.83E-07	3.30E-05	1.13E-04	1.35E-07
4543	420833.41	3734896.74	3.65E-04	1.67E-03	3.65E-06	5.00E-05	2.28E-04	5.43E-07	3.07E-05	1.05E-04	1.26E-07
4544	420824.52	3734900.44	3.38E-04	1.54E-03	3.38E-06	4.63E-05	2.11E-04	5.03E-07	2.84E-05	9.71E-05	1.17E-07
4545	420815.62	3734904.13	3.11E-04	1.42E-03	3.11E-06	4.27E-05	1.95E-04	4.64E-07	2.62E-05	8.95E-05	1.08E-07
4546	420806.72	3734907.83	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.21E-05	9.88E-08
4547	420797.83	3734911.52	2.62E-04	1.20E-03	2.62E-06	3.60E-05	1.64E-04	3.90E-07	2.21E-05	7.54E-05	9.06E-08
4548	420788.93	3734915.22	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.29E-08
4549	420780.04	3734918.91	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.29E-05	7.57E-08
4550	420771.14	3734922.61	1.99E-04	9.08E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
4551	420762.24	3734926.3	1.79E-04	8.21E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.16E-05	6.20E-08
4552	420753.35	3734930	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
4553	421284.45	3734391.69	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.66E-08
4554	421284.41	3734381.98	4.58E-05	2.09E-04	4.58E-07	6.28E-06	2.86E-05	6.82E-08	3.85E-06	1.32E-05	1.58E-08
4555	421284.37	3734372.28	4.36E-05	2.00E-04	4.36E-07	5.98E-06	2.73E-05	6.50E-08	3.67E-06	1.25E-05	1.51E-08
4556	421284.34	3734362.58	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
4557	421284.3	3734352.88	4.01E-05	1.84E-04	4.01E-07	5.50E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
4558	421284.27	3734343.18	3.85E-05	1.76E-04	3.85E-07	5.27E-06	2.41E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
4559	421284.23	3734333.47	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.49E-08	3.10E-06	1.06E-05	1.27E-08
4560	421284.19	3734323.77	3.54E-05	1.62E-04	3.54E-07	4.85E-06	2.21E-05	5.27E-08	2.98E-06	1.02E-05	1.22E-08
4561	421284.16	3734314.07	3.40E-05	1.55E-04	3.40E-07	4.66E-06	2.13E-05	5.06E-08	2.86E-06	9.77E-06	1.18E-08
4562	421284.12	3734304.37	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.40E-06	1.13E-08
4563	421284.09	3734294.67	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.06E-06	1.09E-08
4564	421302.39	3734445.21	5.98E-05	2.73E-04	5.98E-07	8.20E-06	3.74E-05	8.90E-08	5.03E-06	1.72E-05	2.07E-08
4565	421298.71	3734454.16	6.35E-05	2.90E-04	6.35E-07	8.71E-06	3.97E-05	9.46E-08	5.34E-06	1.83E-05	2.20E-08
4566	421295.03	3734463.11	6.75E-05	3.09E-04	6.75E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
4567	421291.36	3734472.05	7.17E-05	3.28E-04	7.17E-07	9.83E-06	4.48E-05	1.07E-07	6.03E-06	2.06E-05	2.48E-08
4568	421287.68	3734481	7.62E-05	3.49E-04	7.62E-07	1.04E-05	4.77E-05	1.13E-07	6.41E-06	2.19E-05	2.63E-08
4569	421284.01	3734489.94	8.10E-05	3.71E-04	8.10E-07	1.11E-05	5.07E-05	1.21E-07	6.82E-06	2.33E-05	2.80E-08
4570	421239.89	3734597.29	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
4571	421236.21	3734606.24	1.71E-04	7.82E-04	1.71E-06	2.34E-05	1.07E-04	2.55E-07	1.44E-05	4.91E-05	5.91E-08
4572	421232.54	3734615.19	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.17E-05	6.21E-08
4573	421228.86	3734624.13	1.88E-04	8.61E-04	1.88E-06	2.58E-05	1.18E-04	2.80E-07	1.58E-05	5.41E-05	6.51E-08
4574	421225.18	3734633.08	1.97E-04	9.00E-04	1.97E-06	2.70E-05	1.23E-04	2.93E-07	1.66E-05	5.66E-05	6.81E-08
4575	421221.51	3734642.02	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
4576	421217.83	3734650.97	2.14E-04	9.78E-04	2.14E-06	2.93E-05	1.34E-04	3.18E-07	1.80E-05	6.15E-05	7.39E-08
4577	421214.15	3734659.92	2.23E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
4578	421210.48	3734668.86	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
4579	421206.8	3734677.81	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.88E-05	8.27E-08
4580	421203.13	3734686.75	2.47E-04	1.13E-03	2.47E-06	3.39E-05	1.55E-04	3.68E-07	2.08E-05	7.11E-05	8.55E-08
4581	421199.45	3734695.7	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.33E-05	8.81E-08
4582	421195.77	3734704.65	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.21E-05	7.56E-05	9.10E-08
4583	421192.1	3734713.59	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.29E-05	7.81E-05	9.39E-08
4584	421188.42	3734722.54	2.80E-04	1.28E-03	2.79E-06	3.83E-05	1.75E-04	4.16E-07	2.35E-05	8.03E-05	9.66E-08

4585	421184.74	3734731.48	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.25E-05	9.92E-08
4586	421181.07	3734740.43	2.94E-04	1.34E-03	2.94E-06	4.03E-05	1.84E-04	4.38E-07	2.47E-05	8.45E-05	1.02E-07
4587	421177.39	3734749.37	3.01E-04	1.38E-03	3.01E-06	4.12E-05	1.88E-04	4.48E-07	2.53E-05	8.64E-05	1.04E-07
4588	421173.71	3734758.32	3.07E-04	1.40E-03	3.07E-06	4.21E-05	1.92E-04	4.57E-07	2.58E-05	8.82E-05	1.06E-07
4589	421092.81	3734829.02	4.02E-04	1.84E-03	4.02E-06	5.51E-05	2.51E-04	5.98E-07	3.38E-05	1.15E-04	1.39E-07
4590	421083.87	3734832.73	4.12E-04	1.88E-03	4.12E-06	5.65E-05	2.58E-04	6.13E-07	3.47E-05	1.18E-04	1.42E-07
4591	421048.15	3734847.57	4.53E-04	2.07E-03	4.53E-06	6.21E-05	2.83E-04	6.75E-07	3.81E-05	1.30E-04	1.57E-07
4592	421039.21	3734851.27	4.61E-04	2.11E-03	4.61E-06	6.32E-05	2.88E-04	6.87E-07	3.88E-05	1.33E-04	1.59E-07
4593	421030.28	3734854.98	4.69E-04	2.14E-03	4.69E-06	6.43E-05	2.93E-04	6.98E-07	3.95E-05	1.35E-04	1.62E-07
4594	421021.35	3734858.69	4.76E-04	2.18E-03	4.76E-06	6.52E-05	2.98E-04	7.08E-07	4.00E-05	1.37E-04	1.64E-07
4595	420994.55	3734869.82	4.92E-04	2.25E-03	4.92E-06	6.74E-05	3.07E-04	7.32E-07	4.14E-05	1.41E-04	1.70E-07
4596	420985.62	3734873.53	4.95E-04	2.26E-03	4.94E-06	6.78E-05	3.09E-04	7.36E-07	4.16E-05	1.42E-04	1.71E-07
4597	420976.69	3734877.24	4.96E-04	2.27E-03	4.96E-06	6.80E-05	3.10E-04	7.39E-07	4.17E-05	1.43E-04	1.71E-07
4598	420967.76	3734880.95	4.96E-04	2.27E-03	4.96E-06	6.80E-05	3.10E-04	7.38E-07	4.17E-05	1.43E-04	1.71E-07
4599	420958.82	3734884.66	4.94E-04	2.26E-03	4.93E-06	6.77E-05	3.09E-04	7.35E-07	4.15E-05	1.42E-04	1.71E-07
4600	420949.89	3734888.37	4.89E-04	2.24E-03	4.89E-06	6.71E-05	3.06E-04	7.28E-07	4.12E-05	1.41E-04	1.69E-07
4601	420940.96	3734892.08	4.82E-04	2.21E-03	4.82E-06	6.61E-05	3.02E-04	7.18E-07	4.06E-05	1.39E-04	1.67E-07
4602	420932.03	3734895.79	4.73E-04	2.16E-03	4.73E-06	6.49E-05	2.96E-04	7.05E-07	3.98E-05	1.36E-04	1.64E-07
4603	420923.09	3734899.5	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
4604	420914.16	3734903.21	4.49E-04	2.05E-03	4.49E-06	6.16E-05	2.81E-04	6.68E-07	3.78E-05	1.29E-04	1.55E-07
4605	420905.23	3734906.92	4.34E-04	1.99E-03	4.34E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
4606	420896.3	3734910.63	4.17E-04	1.91E-03	4.17E-06	5.72E-05	2.61E-04	6.21E-07	3.51E-05	1.20E-04	1.44E-07
4607	420887.37	3734914.34	3.99E-04	1.82E-03	3.98E-06	5.47E-05	2.49E-04	5.93E-07	3.35E-05	1.15E-04	1.38E-07
4608	420878.43	3734918.05	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
4609	420869.5	3734921.76	3.59E-04	1.64E-03	3.58E-06	4.92E-05	2.24E-04	5.34E-07	3.02E-05	1.03E-04	1.24E-07
4610	420860.57	3734925.47	3.38E-04	1.55E-03	3.38E-06	4.64E-05	2.11E-04	5.03E-07	2.85E-05	9.72E-05	1.17E-07
4611	420851.64	3734929.18	3.17E-04	1.45E-03	3.17E-06	4.35E-05	1.98E-04	4.72E-07	2.67E-05	9.12E-05	1.10E-07
4612	420842.7	3734932.88	2.97E-04	1.36E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.52E-05	1.02E-07
4613	420833.77	3734936.59	2.76E-04	1.26E-03	2.76E-06	3.78E-05	1.72E-04	4.11E-07	2.32E-05	7.92E-05	9.53E-08
4614	420824.84	3734940.3	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.34E-05	8.83E-08
4615	420815.91	3734944.01	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.48E-04	3.51E-07	1.99E-05	6.78E-05	8.15E-08
4616	420806.98	3734947.72	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
4617	420798.04	3734951.43	2.00E-04	9.15E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
4618	420789.11	3734955.14	1.83E-04	8.39E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.34E-08
4619	420780.18	3734958.85	1.68E-04	7.67E-04	1.68E-06	2.30E-05	1.05E-04	2.50E-07	1.41E-05	4.82E-05	5.80E-08
4620	420771.25	3734962.56	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.54E-05	2.27E-07	1.28E-05	4.39E-05	5.28E-08
4621	420762.31	3734966.27	1.39E-04	6.34E-04	1.39E-06	1.90E-05	8.67E-05	2.07E-07	1.17E-05	3.99E-05	4.79E-08
4622	420753.38	3734969.98	1.26E-04	5.76E-04	1.26E-06	1.73E-05	7.88E-05	1.88E-07	1.06E-05	3.62E-05	4.35E-08
4623	421324.45	3734391.54	4.24E-05	1.94E-04	4.24E-07	5.81E-06	2.65E-05	6.31E-08	3.57E-06	1.22E-05	1.46E-08
4624	421324.41	3734381.84	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
4625	421324.37	3734372.13	3.88E-05	1.77E-04	3.87E-07	5.31E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
4626	421324.34	3734362.43	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
4627	421324.3	3734352.73	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.01E-06	1.03E-05	1.23E-08
4628	421324.27	3734343.03	3.43E-05	1.57E-04	3.43E-07	4.70E-06	2.14E-05	5.10E-08	2.88E-06	9.85E-06	1.18E-08
4629	421324.23	3734333.33	3.29E-05	1.51E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.46E-06	1.14E-08
4630	421324.19	3734323.62	3.16E-05	1.45E-04	3.16E-07	4.34E-06	1.98E-05	4.71E-08	2.66E-06	9.09E-06	1.09E-08
4631	421324.16	3734313.92	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
4632	421324.12	3734304.22	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.82E-05	4.34E-08	2.45E-06	8.38E-06	1.01E-08
4633	421324.09	3734294.52	2.82E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
4634	421342.75	3734444.18	5.16E-05	2.36E-04	5.16E-07	7.08E-06	3.23E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
4635	421339.14	3734452.97	5.45E-05	2.49E-04	5.45E-07	7.48E-06	3.41E-05	8.12E-08	4.59E-06	1.57E-05	1.88E-08
4636	421335.52	3734461.77	5.77E-05	2.64E-04	5.76E-07	7.90E-06	3.61E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
4637	421331.91	3734470.57	6.10E-05	2.79E-04	6.10E-07	8.36E-06	3.81E-05	9.08E-08	5.13E-06	1.75E-05	2.11E-08
4638	421328.29	3734479.37	6.45E-05	2.95E-04	6.45E-07	8.85E-06	4.03E-05	9.61E-08	5.43E-06	1.85E-05	2.23E-08
4639	421324.67	3734488.17	6.83E-05	3.12E-04	6.83E-07	9.36E-06	4.27E-05	1.02E-07	5.75E-06	1.96E-05	2.36E-08
4640	421321.06	3734496.96	7.23E-05	3.30E-04	7.22E-07	9.91E-06	4.52E-05	1.08E-07	6.08E-06	2.08E-05	2.50E-08
4641	421277.67	3734602.54	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.58E-05	2.04E-07	1.15E-05	3.94E-05	4.74E-08
4642	421274.06	3734611.34	1.45E-04	6.61E-04	1.44E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.15E-05	4.99E-08
4643	421270.44	3734620.13	1.52E-04	6.95E-04	1.52E-06	2.08E-05	9.50E-05	2.26E-07	1.28E-05	4.37E-05	5.25E-08
4644	421266.83	3734628.93	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
4645	421263.21	3734637.73	1.66E-04	7.61E-04	1.66E-06	2.28E-05	1.04E-04	2.48E-07	1.40E-05	4.78E-05	5.75E-08
4646	421259.6	3734646.53	1.74E-04	7.94E-04	1.74E-06	2.38E-05	1.09E-04	2.58E-07	1.46E-05	4.99E-05	6.00E-08

4647	421255.98	3734655.33	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4648	421252.36	3734664.12	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.57E-05	5.38E-05	6.47E-08
4649	421248.75	3734672.92	1.94E-04	8.85E-04	1.94E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.57E-05	6.69E-08
4650	421245.13	3734681.72	2.00E-04	9.15E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
4651	421241.52	3734690.52	2.06E-04	9.44E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.74E-05	5.93E-05	7.13E-08
4652	421237.9	3734699.31	2.13E-04	9.72E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.79E-05	6.11E-05	7.34E-08
4653	421234.29	3734708.11	2.18E-04	9.99E-04	2.18E-06	2.99E-05	1.37E-04	3.25E-07	1.84E-05	6.28E-05	7.55E-08
4654	421230.67	3734716.91	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.34E-07	1.89E-05	6.44E-05	7.75E-08
4655	421174.88	3734834.93	2.84E-04	1.30E-03	2.83E-06	3.89E-05	1.77E-04	4.22E-07	2.39E-05	8.15E-05	9.80E-08
4656	421166.1	3734838.58	2.91E-04	1.33E-03	2.91E-06	3.99E-05	1.82E-04	4.33E-07	2.45E-05	8.37E-05	1.01E-07
4657	421157.32	3734842.23	2.99E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4658	421130.96	3734853.17	3.22E-04	1.47E-03	3.22E-06	4.42E-05	2.01E-04	4.80E-07	2.71E-05	9.26E-05	1.11E-07
4659	421078.26	3734875.06	3.77E-04	1.73E-03	3.77E-06	5.17E-05	2.36E-04	5.62E-07	3.18E-05	1.08E-04	1.30E-07
4660	421069.47	3734878.71	3.86E-04	1.76E-03	3.86E-06	5.29E-05	2.41E-04	5.74E-07	3.25E-05	1.11E-04	1.33E-07
4661	421060.69	3734882.36	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.86E-07	3.31E-05	1.13E-04	1.36E-07
4662	421051.9	3734886	4.02E-04	1.84E-03	4.01E-06	5.50E-05	2.51E-04	5.98E-07	3.38E-05	1.15E-04	1.39E-07
4663	421043.12	3734889.65	4.07E-04	1.86E-03	4.07E-06	5.59E-05	2.55E-04	6.07E-07	3.43E-05	1.17E-04	1.41E-07
4664	421034.33	3734893.3	4.12E-04	1.89E-03	4.12E-06	5.65E-05	2.58E-04	6.14E-07	3.47E-05	1.19E-04	1.43E-07
4665	421025.55	3734896.95	4.17E-04	1.91E-03	4.17E-06	5.71E-05	2.61E-04	6.20E-07	3.51E-05	1.20E-04	1.44E-07
4666	421016.77	3734900.6	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.25E-07	3.53E-05	1.21E-04	1.45E-07
4667	420990.41	3734911.54	4.22E-04	1.93E-03	4.22E-06	5.78E-05	2.64E-04	6.28E-07	3.55E-05	1.21E-04	1.46E-07
4668	420981.63	3734915.19	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.25E-07	3.53E-05	1.21E-04	1.45E-07
4669	420972.84	3734918.84	4.17E-04	1.91E-03	4.17E-06	5.72E-05	2.61E-04	6.21E-07	3.51E-05	1.20E-04	1.44E-07
4670	420964.06	3734922.49	4.12E-04	1.89E-03	4.12E-06	5.65E-05	2.58E-04	6.14E-07	3.47E-05	1.19E-04	1.43E-07
4671	420955.28	3734926.13	4.06E-04	1.86E-03	4.06E-06	5.57E-05	2.54E-04	6.05E-07	3.42E-05	1.17E-04	1.40E-07
4672	420946.49	3734929.78	3.98E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.14E-04	1.38E-07
4673	420937.71	3734933.43	3.89E-04	1.78E-03	3.89E-06	5.33E-05	2.43E-04	5.79E-07	3.27E-05	1.12E-04	1.34E-07
4674	420928.92	3734937.08	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.63E-07	3.18E-05	1.09E-04	1.31E-07
4675	420920.14	3734940.73	3.65E-04	1.67E-03	3.65E-06	5.01E-05	2.28E-04	5.44E-07	3.07E-05	1.05E-04	1.26E-07
4676	420911.35	3734944.37	3.52E-04	1.61E-03	3.51E-06	4.82E-05	2.20E-04	5.23E-07	2.96E-05	1.01E-04	1.21E-07
4677	420902.57	3734948.02	3.37E-04	1.54E-03	3.36E-06	4.62E-05	2.10E-04	5.01E-07	2.83E-05	9.67E-05	1.16E-07
4678	420893.78	3734951.67	3.22E-04	1.47E-03	3.21E-06	4.41E-05	2.01E-04	4.79E-07	2.71E-05	9.24E-05	1.11E-07
4679	420885	3734955.32	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.91E-04	4.56E-07	2.58E-05	8.80E-05	1.06E-07
4680	420876.22	3734958.97	2.91E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4681	420867.43	3734962.62	2.75E-04	1.26E-03	2.74E-06	3.76E-05	1.72E-04	4.09E-07	2.31E-05	7.89E-05	9.49E-08
4682	420858.65	3734966.26	2.58E-04	1.18E-03	2.58E-06	3.54E-05	1.61E-04	3.84E-07	2.17E-05	7.42E-05	8.92E-08
4683	420849.86	3734969.91	2.42E-04	1.11E-03	2.42E-06	3.32E-05	1.51E-04	3.60E-07	2.03E-05	6.95E-05	8.36E-08
4684	420841.08	3734973.56	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.36E-07	1.90E-05	6.49E-05	7.80E-08
4685	420832.29	3734977.21	2.10E-04	9.62E-04	2.10E-06	2.88E-05	1.32E-04	3.13E-07	1.77E-05	6.05E-05	7.27E-08
4686	420823.51	3734980.86	1.95E-04	8.94E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.64E-05	5.62E-05	6.75E-08
4687	420814.73	3734984.5	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.20E-05	6.25E-08
4688	420805.94	3734988.15	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.49E-07	1.40E-05	4.80E-05	5.77E-08
4689	420797.16	3734991.8	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.62E-05	2.29E-07	1.29E-05	4.42E-05	5.32E-08
4690	420788.37	3734995.45	1.42E-04	6.47E-04	1.42E-06	1.94E-05	8.85E-05	2.11E-07	1.19E-05	4.07E-05	4.89E-08
4691	420779.59	3734999.1	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.74E-05	4.50E-08
4692	420770.8	3735002.75	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.46E-05	1.78E-07	1.00E-05	3.43E-05	4.12E-08
4693	420762.02	3735006.39	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.83E-05	1.63E-07	9.19E-06	3.14E-05	3.77E-08
4694	420753.23	3735010.04	9.99E-05	4.57E-04	9.98E-07	1.37E-05	6.25E-05	1.49E-07	8.40E-06	2.87E-05	3.45E-08
4695	421364.45	3734391.39	3.78E-05	1.73E-04	3.77E-07	5.18E-06	2.36E-05	5.62E-08	3.18E-06	1.08E-05	1.30E-08
4696	421364.41	3734381.69	3.62E-05	1.65E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.04E-06	1.04E-05	1.25E-08
4697	421364.37	3734371.99	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.97E-06	1.20E-08
4698	421364.34	3734362.28	3.33E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.56E-06	1.15E-08
4699	421364.3	3734352.58	3.19E-05	1.46E-04	3.19E-07	4.37E-06	1.99E-05	4.75E-08	2.68E-06	9.16E-06	1.10E-08
4700	421364.27	3734342.88	3.06E-05	1.40E-04	3.06E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.79E-06	1.06E-08
4701	421364.23	3734333.18	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.38E-08	2.47E-06	8.45E-06	1.02E-08
4702	421364.19	3734323.48	2.83E-05	1.29E-04	2.83E-07	3.87E-06	1.77E-05	4.21E-08	2.38E-06	8.12E-06	9.77E-09
4703	421364.16	3734313.77	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
4704	421364.12	3734304.07	2.62E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.54E-06	9.07E-09
4705	421364.09	3734294.37	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.78E-08	2.13E-06	7.29E-06	8.76E-09
4706	421382.66	3734444.25	4.53E-05	2.07E-04	4.53E-07	6.21E-06	2.83E-05	6.74E-08	3.81E-06	1.30E-05	1.57E-08
4707	421379.03	3734453.09	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
4708	421375.4	3734461.92	5.03E-05	2.30E-04	5.02E-07	6.89E-06	3.14E-05	7.48E-08	4.23E-06	1.44E-05	1.74E-08

4709	421371.77	3734470.76	5.30E-05	2.42E-04	5.30E-07	7.26E-06	3.31E-05	7.89E-08	4.46E-06	1.52E-05	1.83E-08
4710	421331.83	3734567.95	9.32E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.84E-06	2.68E-05	3.22E-08
4711	421328.2	3734576.78	9.76E-05	4.46E-04	9.76E-07	1.34E-05	6.10E-05	1.45E-07	8.21E-06	2.81E-05	3.37E-08
4712	421324.56	3734585.62	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.40E-05	1.52E-07	8.62E-06	2.94E-05	3.54E-08
4713	421320.93	3734594.45	1.07E-04	4.91E-04	1.07E-06	1.47E-05	6.72E-05	1.60E-07	9.04E-06	3.09E-05	3.71E-08
4714	421317.3	3734603.29	1.13E-04	5.15E-04	1.13E-06	1.54E-05	7.05E-05	1.68E-07	9.48E-06	3.24E-05	3.89E-08
4715	421313.67	3734612.12	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.39E-05	1.76E-07	9.95E-06	3.40E-05	4.09E-08
4716	421310.04	3734620.96	1.24E-04	5.69E-04	1.24E-06	1.70E-05	7.78E-05	1.85E-07	1.05E-05	3.57E-05	4.30E-08
4717	421306.41	3734629.8	1.31E-04	5.97E-04	1.31E-06	1.79E-05	8.17E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
4718	421302.78	3734638.63	1.37E-04	6.26E-04	1.37E-06	1.88E-05	8.57E-05	2.04E-07	1.15E-05	3.94E-05	4.73E-08
4719	421280.99	3734691.64	1.73E-04	7.90E-04	1.73E-06	2.37E-05	1.08E-04	2.57E-07	1.45E-05	4.97E-05	5.97E-08
4720	421277.36	3734700.48	1.78E-04	8.15E-04	1.78E-06	2.44E-05	1.11E-04	2.65E-07	1.50E-05	5.12E-05	6.16E-08
4721	421273.73	3734709.31	1.83E-04	8.39E-04	1.83E-06	2.52E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.34E-08
4722	421270.1	3734718.15	1.89E-04	8.63E-04	1.89E-06	2.59E-05	1.18E-04	2.81E-07	1.59E-05	5.42E-05	6.52E-08
4723	421266.47	3734726.98	1.94E-04	8.85E-04	1.94E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.56E-05	6.69E-08
4724	421262.84	3734735.82	1.98E-04	9.07E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
4725	421259.21	3734744.65	2.03E-04	9.28E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
4726	421255.58	3734753.49	2.07E-04	9.48E-04	2.07E-06	2.84E-05	1.30E-04	3.09E-07	1.74E-05	5.96E-05	7.16E-08
4727	421203.18	3734863.18	2.45E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.03E-05	8.45E-08
4728	421194.36	3734866.84	2.51E-04	1.15E-03	2.51E-06	3.44E-05	1.57E-04	3.73E-07	2.11E-05	7.20E-05	8.66E-08
4729	421185.54	3734870.5	2.57E-04	1.17E-03	2.56E-06	3.52E-05	1.60E-04	3.82E-07	2.16E-05	7.37E-05	8.86E-08
4730	421159.07	3734881.5	2.74E-04	1.25E-03	2.74E-06	3.76E-05	1.71E-04	4.08E-07	2.31E-05	7.88E-05	9.47E-08
4731	421150.25	3734885.16	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.68E-08
4732	421141.43	3734888.82	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.22E-05	9.89E-08
4733	421088.5	3734910.81	3.31E-04	1.51E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.14E-07
4734	421079.68	3734914.47	3.39E-04	1.55E-03	3.39E-06	4.65E-05	2.12E-04	5.05E-07	2.85E-05	9.75E-05	1.17E-07
4735	421070.86	3734918.13	3.45E-04	1.58E-03	3.45E-06	4.73E-05	2.16E-04	5.14E-07	2.90E-05	9.91E-05	1.19E-07
4736	421062.03	3734921.8	3.50E-04	1.60E-03	3.50E-06	4.80E-05	2.19E-04	5.21E-07	2.95E-05	1.01E-04	1.21E-07
4737	421053.21	3734925.46	3.55E-04	1.62E-03	3.55E-06	4.86E-05	2.22E-04	5.28E-07	2.99E-05	1.02E-04	1.23E-07
4738	421044.39	3734929.12	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4739	421035.57	3734932.79	3.61E-04	1.65E-03	3.61E-06	4.94E-05	2.26E-04	5.37E-07	3.03E-05	1.04E-04	1.25E-07
4740	421026.75	3734936.45	3.62E-04	1.66E-03	3.62E-06	4.97E-05	2.27E-04	5.39E-07	3.05E-05	1.04E-04	1.25E-07
4741	421017.93	3734940.12	3.63E-04	1.66E-03	3.63E-06	4.97E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
4742	420991.46	3734951.11	3.56E-04	1.63E-03	3.56E-06	4.89E-05	2.23E-04	5.31E-07	3.00E-05	1.02E-04	1.23E-07
4743	420982.64	3734954.77	3.52E-04	1.61E-03	3.52E-06	4.83E-05	2.20E-04	5.25E-07	2.97E-05	1.01E-04	1.22E-07
4744	420973.82	3734958.43	3.47E-04	1.59E-03	3.47E-06	4.76E-05	2.17E-04	5.17E-07	2.92E-05	9.98E-05	1.20E-07
4745	420965	3734962.1	3.41E-04	1.56E-03	3.41E-06	4.67E-05	2.13E-04	5.07E-07	2.87E-05	9.79E-05	1.18E-07
4746	420956.17	3734965.76	3.33E-04	1.52E-03	3.33E-06	4.57E-05	2.08E-04	4.96E-07	2.80E-05	9.57E-05	1.15E-07
4747	420947.35	3734969.42	3.24E-04	1.48E-03	3.24E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.32E-05	1.12E-07
4748	420938.53	3734973.09	3.15E-04	1.44E-03	3.14E-06	4.31E-05	1.97E-04	4.68E-07	2.65E-05	9.04E-05	1.09E-07
4749	420929.71	3734976.75	3.04E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.74E-05	1.05E-07
4750	420920.89	3734980.42	2.92E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.35E-07	2.46E-05	8.40E-05	1.01E-07
4751	420912.06	3734984.08	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.68E-08
4752	420903.24	3734987.74	2.67E-04	1.22E-03	2.67E-06	3.67E-05	1.67E-04	3.98E-07	2.25E-05	7.68E-05	9.24E-08
4753	420894.42	3734991.41	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
4754	420885.6	3734995.07	2.42E-04	1.11E-03	2.42E-06	3.32E-05	1.51E-04	3.61E-07	2.04E-05	6.96E-05	8.37E-08
4755	420876.78	3734998.73	2.30E-04	1.05E-03	2.29E-06	3.15E-05	1.43E-04	3.42E-07	1.93E-05	6.59E-05	7.93E-08
4756	420867.96	3735002.4	2.17E-04	9.90E-04	2.16E-06	2.97E-05	1.35E-04	3.22E-07	1.82E-05	6.22E-05	7.48E-08
4757	420859.13	3735006.06	2.03E-04	9.30E-04	2.03E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.84E-05	7.03E-08
4758	420850.31	3735009.73	1.90E-04	8.70E-04	1.90E-06	2.61E-05	1.19E-04	2.83E-07	1.60E-05	5.47E-05	6.58E-08
4759	420841.49	3735013.39	1.78E-04	8.12E-04	1.78E-06	2.43E-05	1.11E-04	2.64E-07	1.49E-05	5.10E-05	6.14E-08
4760	420832.67	3735017.05	1.65E-04	7.56E-04	1.65E-06	2.27E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.71E-08
4761	420823.85	3735020.72	1.53E-04	7.01E-04	1.53E-06	2.10E-05	9.59E-05	2.28E-07	1.29E-05	4.41E-05	5.30E-08
4762	420815.02	3735024.38	1.42E-04	6.50E-04	1.42E-06	1.95E-05	8.88E-05	2.11E-07	1.20E-05	4.08E-05	4.91E-08
4763	420770.92	3735042.7	9.57E-05	4.38E-04	9.57E-07	1.31E-05	5.98E-05	1.42E-07	8.05E-06	2.75E-05	3.31E-08
4764	420762.09	3735046.36	8.80E-05	4.02E-04	8.79E-07	1.21E-05	5.50E-05	1.31E-07	7.40E-06	2.53E-05	3.04E-08
4765	420753.27	3735050.03	8.09E-05	3.70E-04	8.08E-07	1.11E-05	5.06E-05	1.20E-07	6.80E-06	2.32E-05	2.79E-08
4766	421404.45	3734391.24	3.36E-05	1.54E-04	3.36E-07	4.61E-06	2.10E-05	5.00E-08	2.83E-06	9.66E-06	1.16E-08
4767	421404.41	3734381.54	3.20E-05	1.46E-04	3.20E-07	4.39E-06	2.00E-05	4.77E-08	2.69E-06	9.20E-06	1.11E-08
4768	421404.37	3734371.84	3.05E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
4769	421404.34	3734362.14	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
4770	421404.3	3734352.43	2.83E-05	1.30E-04	2.83E-07	3.88E-06	1.77E-05	4.22E-08	2.38E-06	8.14E-06	9.79E-09

4771	421404.27	3734342.73	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
4772	421404.23	3734333.03	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.22E-06	7.57E-06	9.10E-09
4773	421404.19	3734323.33	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.77E-08	2.13E-06	7.29E-06	8.76E-09
4774	421404.16	3734313.63	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.64E-08	2.06E-06	7.02E-06	8.44E-09
4775	421404.12	3734303.92	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
4776	421404.09	3734294.22	2.28E-05	1.04E-04	2.28E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.56E-06	7.89E-09
4777	421422.58	3734444.31	4.01E-05	1.83E-04	4.01E-07	5.50E-06	2.51E-05	5.97E-08	3.37E-06	1.15E-05	1.39E-08
4778	421418.93	3734453.17	4.21E-05	1.92E-04	4.21E-07	5.77E-06	2.63E-05	6.27E-08	3.54E-06	1.21E-05	1.45E-08
4779	421415.29	3734462.04	4.42E-05	2.02E-04	4.42E-07	6.06E-06	2.76E-05	6.58E-08	3.72E-06	1.27E-05	1.53E-08
4780	421411.64	3734470.91	4.65E-05	2.13E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
4781	421408	3734479.78	4.88E-05	2.23E-04	4.88E-07	6.69E-06	3.05E-05	7.27E-08	4.11E-06	1.40E-05	1.69E-08
4782	421404.35	3734488.65	5.12E-05	2.34E-04	5.12E-07	7.02E-06	3.20E-05	7.63E-08	4.31E-06	1.47E-05	1.77E-08
4783	421400.71	3734497.52	5.39E-05	2.46E-04	5.38E-07	7.38E-06	3.37E-05	8.02E-08	4.53E-06	1.55E-05	1.86E-08
4784	421367.91	3734577.34	8.26E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.95E-06	2.37E-05	2.86E-08
4785	421364.26	3734586.21	8.66E-05	3.96E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
4786	421360.62	3734595.08	9.08E-05	4.15E-04	9.08E-07	1.24E-05	5.68E-05	1.35E-07	7.64E-06	2.61E-05	3.14E-08
4787	421356.97	3734603.94	9.52E-05	4.35E-04	9.51E-07	1.30E-05	5.95E-05	1.42E-07	8.01E-06	2.73E-05	3.29E-08
4788	421353.33	3734612.81	9.97E-05	4.56E-04	9.97E-07	1.37E-05	6.23E-05	1.48E-07	8.39E-06	2.86E-05	3.45E-08
4789	421349.68	3734621.68	1.05E-04	4.78E-04	1.04E-06	1.43E-05	6.53E-05	1.56E-07	8.79E-06	3.00E-05	3.61E-08
4790	421346.04	3734630.55	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.14E-05	3.78E-08
4791	421342.39	3734639.42	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.16E-05	1.70E-07	9.63E-06	3.29E-05	3.96E-08
4792	421338.75	3734648.29	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.47E-05	1.78E-07	1.00E-05	3.43E-05	4.13E-08
4793	421335.1	3734657.16	1.25E-04	5.69E-04	1.24E-06	1.71E-05	7.78E-05	1.85E-07	1.05E-05	3.58E-05	4.30E-08
4794	421331.46	3734666.03	1.30E-04	5.93E-04	1.30E-06	1.78E-05	8.11E-05	1.93E-07	1.09E-05	3.73E-05	4.48E-08
4795	421327.81	3734674.89	1.35E-04	6.17E-04	1.35E-06	1.85E-05	8.44E-05	2.01E-07	1.14E-05	3.88E-05	4.66E-08
4796	421324.17	3734683.76	1.40E-04	6.40E-04	1.40E-06	1.92E-05	8.76E-05	2.08E-07	1.18E-05	4.02E-05	4.84E-08
4797	421320.53	3734692.63	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.07E-05	2.16E-07	1.22E-05	4.17E-05	5.01E-08
4798	421316.88	3734701.5	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
4799	421313.24	3734710.37	1.55E-04	7.07E-04	1.54E-06	2.12E-05	9.66E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
4800	421309.59	3734719.24	1.59E-04	7.27E-04	1.59E-06	2.18E-05	9.94E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
4801	421305.95	3734728.11	1.63E-04	7.47E-04	1.63E-06	2.24E-05	1.02E-04	2.43E-07	1.37E-05	4.70E-05	5.65E-08
4802	421302.3	3734736.98	1.68E-04	7.66E-04	1.67E-06	2.30E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.79E-08
4803	421231.49	3734891.42	2.13E-04	9.75E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.13E-05	7.37E-08
4804	421222.63	3734895.1	2.19E-04	9.99E-04	2.18E-06	3.00E-05	1.37E-04	3.25E-07	1.84E-05	6.28E-05	7.55E-08
4805	421213.78	3734898.78	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.74E-08
4806	421187.21	3734909.81	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.88E-05	8.27E-08
4807	421178.36	3734913.49	2.44E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.02E-05	8.45E-08
4808	421169.5	3734917.17	2.49E-04	1.14E-03	2.49E-06	3.42E-05	1.56E-04	3.71E-07	2.10E-05	7.17E-05	8.62E-08
4809	421134.08	3734931.88	2.71E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.79E-05	9.37E-08
4810	421125.22	3734935.55	2.77E-04	1.27E-03	2.77E-06	3.80E-05	1.73E-04	4.13E-07	2.33E-05	7.97E-05	9.58E-08
4811	421089.8	3734950.26	2.98E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.57E-05	1.03E-07
4812	421080.95	3734953.94	3.02E-04	1.38E-03	3.02E-06	4.14E-05	1.89E-04	4.50E-07	2.54E-05	8.69E-05	1.04E-07
4813	421072.09	3734957.62	3.05E-04	1.40E-03	3.05E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.77E-05	1.06E-07
4814	421063.24	3734961.3	3.08E-04	1.41E-03	3.07E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
4815	421054.38	3734964.97	3.09E-04	1.41E-03	3.09E-06	4.24E-05	1.93E-04	4.60E-07	2.60E-05	8.88E-05	1.07E-07
4816	421045.53	3734968.65	3.10E-04	1.42E-03	3.10E-06	4.25E-05	1.94E-04	4.62E-07	2.61E-05	8.91E-05	1.07E-07
4817	421036.67	3734972.33	3.11E-04	1.42E-03	3.11E-06	4.26E-05	1.94E-04	4.62E-07	2.61E-05	8.93E-05	1.07E-07
4818	421027.82	3734976.01	3.10E-04	1.42E-03	3.10E-06	4.25E-05	1.94E-04	4.62E-07	2.61E-05	8.92E-05	1.07E-07
4819	421018.96	3734979.69	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
4820	420992.4	3734990.72	2.99E-04	1.37E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4821	420983.54	3734994.4	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
4822	420974.69	3734998.07	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4823	420965.83	3735001.75	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.69E-08
4824	420956.98	3735005.43	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.06E-07	2.30E-05	7.84E-05	9.43E-08
4825	420948.12	3735009.11	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
4826	420939.26	3735012.78	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.33E-05	8.82E-08
4827	420930.41	3735016.46	2.46E-04	1.12E-03	2.45E-06	3.37E-05	1.54E-04	3.66E-07	2.07E-05	7.06E-05	8.49E-08
4828	420921.55	3735020.14	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.47E-04	3.51E-07	1.98E-05	6.77E-05	8.14E-08
4829	420868.42	3735042.2	1.72E-04	7.88E-04	1.72E-06	2.36E-05	1.08E-04	2.57E-07	1.45E-05	4.96E-05	5.96E-08
4830	420859.57	3735045.88	1.62E-04	7.39E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.64E-05	5.59E-08
4831	420850.71	3735049.56	1.51E-04	6.91E-04	1.51E-06	2.07E-05	9.44E-05	2.25E-07	1.27E-05	4.34E-05	5.22E-08
4832	420841.86	3735053.24	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.81E-05	2.10E-07	1.18E-05	4.05E-05	4.87E-08

4833	420833	3735056.91	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.21E-05	1.95E-07	1.10E-05	3.77E-05	4.54E-08
4834	420779.87	3735078.98	8.38E-05	3.83E-04	8.37E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.89E-08
4835	420771.02	3735082.66	7.72E-05	3.53E-04	7.72E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4836	420762.16	3735086.33	7.12E-05	3.25E-04	7.11E-07	9.76E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
4837	421444.45	3734391.09	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
4838	421444.41	3734381.39	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.82E-05	4.34E-08	2.45E-06	8.38E-06	1.01E-08
4839	421444.37	3734371.69	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.05E-06	9.68E-09
4840	421444.34	3734361.99	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
4841	421444.3	3734352.28	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.86E-08	2.18E-06	7.45E-06	8.95E-09
4842	421444.27	3734342.58	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
4843	421444.23	3734332.88	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.58E-08	2.02E-06	6.90E-06	8.30E-09
4844	421444.19	3734323.18	2.32E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.45E-08	1.95E-06	6.65E-06	8.00E-09
4845	421444.16	3734313.48	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.40E-05	3.32E-08	1.88E-06	6.42E-06	7.72E-09
4846	421444.12	3734303.77	2.16E-05	9.89E-05	2.16E-07	2.97E-06	1.35E-05	3.22E-08	1.82E-06	6.22E-06	7.48E-09
4847	421444.09	3734294.07	2.10E-05	9.61E-05	2.10E-07	2.88E-06	1.31E-05	3.13E-08	1.77E-06	6.04E-06	7.26E-09
4848	420761.36	3734252.04	1.36E-04	6.23E-04	1.36E-06	1.87E-05	8.52E-05	2.03E-07	1.15E-05	3.91E-05	4.71E-08
4849	420763.1	3734242.07	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.04E-05	3.54E-05	4.25E-08
4850	420776.82	3734250.38	1.34E-04	6.11E-04	1.34E-06	1.83E-05	8.35E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
4851	420764.94	3734232.16	1.12E-04	5.11E-04	1.12E-06	1.53E-05	6.99E-05	1.66E-07	9.40E-06	3.21E-05	3.86E-08
4852	420778.28	3734240.24	1.21E-04	5.52E-04	1.21E-06	1.65E-05	7.55E-05	1.80E-07	1.02E-05	3.47E-05	4.17E-08
4853	420791.62	3734248.33	1.30E-04	5.92E-04	1.30E-06	1.78E-05	8.10E-05	1.93E-07	1.09E-05	3.72E-05	4.48E-08
4854	420800.92	3734259.71	1.44E-04	6.57E-04	1.44E-06	1.97E-05	8.98E-05	2.14E-07	1.21E-05	4.13E-05	4.96E-08
4855	420767.92	3734222.95	1.03E-04	4.69E-04	1.02E-06	1.41E-05	6.41E-05	1.53E-07	8.63E-06	2.95E-05	3.54E-08
4856	420783.16	3734232.18	1.12E-04	5.10E-04	1.12E-06	1.53E-05	6.97E-05	1.66E-07	9.39E-06	3.21E-05	3.86E-08
4857	420798.41	3734241.42	1.20E-04	5.51E-04	1.20E-06	1.65E-05	7.53E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
4858	420809.04	3734254.43	1.35E-04	6.15E-04	1.35E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
4859	420769.67	3734212.99	9.37E-05	4.29E-04	9.37E-07	1.29E-05	5.86E-05	1.40E-07	7.89E-06	2.69E-05	3.24E-08
4860	420784.37	3734221.9	1.01E-04	4.64E-04	1.01E-06	1.39E-05	6.34E-05	1.51E-07	8.54E-06	2.92E-05	3.51E-08
4861	420799.07	3734230.8	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.82E-05	1.62E-07	9.18E-06	3.13E-05	3.77E-08
4862	420771.49	3734203.07	8.60E-05	3.93E-04	8.60E-07	1.18E-05	5.38E-05	1.28E-07	7.24E-06	2.47E-05	2.97E-08
4863	420785.79	3734211.73	9.27E-05	4.24E-04	9.26E-07	1.27E-05	5.80E-05	1.38E-07	7.80E-06	2.66E-05	3.20E-08
4864	420800.08	3734220.39	9.93E-05	4.54E-04	9.93E-07	1.36E-05	6.21E-05	1.48E-07	8.36E-06	2.85E-05	3.43E-08
4865	420814.37	3734229.05	1.06E-04	4.83E-04	1.06E-06	1.45E-05	6.61E-05	1.57E-07	8.89E-06	3.04E-05	3.65E-08
4866	420776.02	3734183.78	7.35E-05	3.36E-04	7.34E-07	1.01E-05	4.59E-05	1.09E-07	6.18E-06	2.11E-05	2.54E-08
4867	420791.27	3734193.01	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.73E-08
4868	420806.51	3734202.25	8.48E-05	3.88E-04	8.47E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
4869	420821.76	3734211.49	9.03E-05	4.13E-04	9.03E-07	1.24E-05	5.65E-05	1.34E-07	7.60E-06	2.60E-05	3.12E-08
4870	420846.03	3734245.89	1.16E-04	5.30E-04	1.16E-06	1.59E-05	7.25E-05	1.73E-07	9.75E-06	3.33E-05	4.01E-08
4871	420794.28	3734172.8	6.75E-05	3.09E-04	6.74E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
4872	420808.83	3734181.62	7.19E-05	3.29E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.05E-06	2.07E-05	2.48E-08
4873	420823.38	3734190.43	7.62E-05	3.49E-04	7.62E-07	1.04E-05	4.77E-05	1.13E-07	6.41E-06	2.19E-05	2.63E-08
4874	420855.36	3734216.07	8.93E-05	4.08E-04	8.92E-07	1.22E-05	5.58E-05	1.33E-07	7.51E-06	2.56E-05	3.08E-08
4875	420861.1	3734232.09	1.00E-04	4.57E-04	9.99E-07	1.37E-05	6.25E-05	1.49E-07	8.41E-06	2.87E-05	3.46E-08
4876	420866.85	3734248.11	1.12E-04	5.12E-04	1.12E-06	1.53E-05	7.00E-05	1.67E-07	9.42E-06	3.22E-05	3.87E-08
4877	420784.12	3734144.61	5.49E-05	2.51E-04	5.49E-07	7.53E-06	3.43E-05	8.18E-08	4.62E-06	1.58E-05	1.90E-08
4878	420829.86	3734172.32	6.63E-05	3.03E-04	6.62E-07	9.08E-06	4.14E-05	9.86E-08	5.57E-06	1.90E-05	2.29E-08
4879	420860.35	3734190.79	7.33E-05	3.35E-04	7.32E-07	1.00E-05	4.58E-05	1.09E-07	6.17E-06	2.11E-05	2.53E-08
4880	420870.98	3734203.8	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.73E-08
4881	420873.99	3734212.19	8.36E-05	3.82E-04	8.36E-07	1.15E-05	5.23E-05	1.24E-07	7.03E-06	2.40E-05	2.89E-08
4882	420880.01	3734228.97	9.33E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.85E-06	2.68E-05	3.22E-08
4883	420886.03	3734245.74	1.04E-04	4.75E-04	1.04E-06	1.42E-05	6.49E-05	1.55E-07	8.74E-06	2.98E-05	3.59E-08
4884	420889.04	3734254.13	1.09E-04	5.01E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.15E-05	3.78E-08
4885	420787.9	3734124.86	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.16E-08	4.05E-06	1.38E-05	1.66E-08
4886	420802.6	3734133.76	5.11E-05	2.34E-04	5.11E-07	7.01E-06	3.20E-05	7.61E-08	4.30E-06	1.47E-05	1.77E-08
4887	420817.3	3734142.67	5.42E-05	2.48E-04	5.41E-07	7.42E-06	3.39E-05	8.06E-08	4.56E-06	1.56E-05	1.87E-08
4888	420876.11	3734178.3	6.56E-05	3.00E-04	6.56E-07	9.00E-06	4.10E-05	9.77E-08	5.52E-06	1.89E-05	2.27E-08
4889	420886.36	3734190.84	7.02E-05	3.21E-04	7.02E-07	9.63E-06	4.39E-05	1.05E-07	5.91E-06	2.02E-05	2.43E-08
4890	420892.16	3734207.02	7.75E-05	3.54E-04	7.74E-07	1.06E-05	4.84E-05	1.15E-07	6.52E-06	2.23E-05	2.68E-08
4891	420897.97	3734223.2	8.53E-05	3.90E-04	8.53E-07	1.17E-05	5.33E-05	1.27E-07	7.18E-06	2.45E-05	2.95E-08
4892	420903.77	3734239.38	9.39E-05	4.29E-04	9.38E-07	1.29E-05	5.87E-05	1.40E-07	7.90E-06	2.70E-05	3.24E-08
4893	420909.58	3734255.56	1.03E-04	4.71E-04	1.03E-06	1.41E-05	6.43E-05	1.53E-07	8.66E-06	2.96E-05	3.56E-08
4894	420792.23	3734105.43	4.26E-05	1.95E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08

4895	420807.47	3734114.67	4.52E-05	2.07E-04	4.52E-07	6.19E-06	2.82E-05	6.72E-08	3.80E-06	1.30E-05	1.56E-08
4896	420822.72	3734123.91	4.78E-05	2.19E-04	4.78E-07	6.55E-06	2.99E-05	7.12E-08	4.02E-06	1.37E-05	1.65E-08
4897	420837.96	3734133.15	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.51E-08	4.24E-06	1.45E-05	1.74E-08
4898	420883.7	3734160.86	5.79E-05	2.65E-04	5.78E-07	7.93E-06	3.62E-05	8.61E-08	4.87E-06	1.66E-05	2.00E-08
4899	420901.95	3734178.48	6.29E-05	2.88E-04	6.29E-07	8.62E-06	3.93E-05	9.36E-08	5.29E-06	1.81E-05	2.17E-08
4900	420907.97	3734195.26	6.92E-05	3.16E-04	6.91E-07	9.48E-06	4.32E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
4901	420910.98	3734203.65	7.25E-05	3.31E-04	7.24E-07	9.94E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.50E-08
4902	420917	3734220.43	7.95E-05	3.63E-04	7.94E-07	1.09E-05	4.97E-05	1.18E-07	6.69E-06	2.28E-05	2.75E-08
4903	420923.02	3734237.21	8.69E-05	3.97E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.31E-06	2.50E-05	3.00E-08
4904	420929.04	3734253.98	9.47E-05	4.33E-04	9.47E-07	1.30E-05	5.92E-05	1.41E-07	7.97E-06	2.72E-05	3.27E-08
4905	420796.52	3734085.99	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
4906	420804.38	3734090.76	3.90E-05	1.78E-04	3.90E-07	5.35E-06	2.44E-05	5.81E-08	3.28E-06	1.12E-05	1.35E-08
4907	420812.24	3734095.52	4.02E-05	1.84E-04	4.01E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
4908	420820.1	3734100.28	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
4909	420827.96	3734105.05	4.24E-05	1.94E-04	4.24E-07	5.82E-06	2.65E-05	6.32E-08	3.57E-06	1.22E-05	1.47E-08
4910	420835.82	3734109.81	4.36E-05	1.99E-04	4.36E-07	5.98E-06	2.73E-05	6.49E-08	3.67E-06	1.25E-05	1.51E-08
4911	420843.68	3734114.57	4.47E-05	2.05E-04	4.47E-07	6.13E-06	2.80E-05	6.66E-08	3.76E-06	1.29E-05	1.55E-08
4912	420906.56	3734152.67	5.31E-05	2.43E-04	5.31E-07	7.28E-06	3.32E-05	7.91E-08	4.47E-06	1.53E-05	1.84E-08
4913	420917.53	3734166.09	5.66E-05	2.59E-04	5.65E-07	7.76E-06	3.54E-05	8.42E-08	4.76E-06	1.63E-05	1.96E-08
4914	420920.63	3734174.74	5.93E-05	2.71E-04	5.92E-07	8.12E-06	3.70E-05	8.82E-08	4.98E-06	1.70E-05	2.05E-08
4915	420923.74	3734183.39	6.20E-05	2.84E-04	6.20E-07	8.50E-06	3.88E-05	9.23E-08	5.22E-06	1.78E-05	2.14E-08
4916	420926.84	3734192.04	6.49E-05	2.97E-04	6.49E-07	8.90E-06	4.06E-05	9.66E-08	5.46E-06	1.86E-05	2.24E-08
4917	420929.95	3734200.69	6.79E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.34E-08
4918	420933.05	3734209.34	7.09E-05	3.24E-04	7.09E-07	9.72E-06	4.43E-05	1.06E-07	5.97E-06	2.04E-05	2.45E-08
4919	420936.15	3734217.99	7.40E-05	3.39E-04	7.40E-07	1.01E-05	4.63E-05	1.10E-07	6.23E-06	2.13E-05	2.56E-08
4920	420939.26	3734226.65	7.72E-05	3.53E-04	7.72E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4921	420942.36	3734235.3	8.05E-05	3.68E-04	8.05E-07	1.10E-05	5.03E-05	1.20E-07	6.77E-06	2.31E-05	2.78E-08
4922	420945.46	3734243.95	8.38E-05	3.83E-04	8.38E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.90E-08
4923	420948.57	3734252.6	8.72E-05	3.99E-04	8.72E-07	1.20E-05	5.45E-05	1.30E-07	7.34E-06	2.51E-05	3.01E-08
4924	420960.98	3734287.2	1.01E-04	4.63E-04	1.01E-06	1.39E-05	6.33E-05	1.51E-07	8.52E-06	2.91E-05	3.50E-08
4925	420807.95	3734070.88	3.48E-05	1.59E-04	3.48E-07	4.78E-06	2.18E-05	5.19E-08	2.93E-06	1.00E-05	1.20E-08
4926	420823.2	3734080.12	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
4927	420838.44	3734089.36	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
4928	420853.69	3734098.59	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
4929	420914.67	3734135.54	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.97E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
4930	420932.92	3734153.17	5.10E-05	2.33E-04	5.10E-07	6.99E-06	3.19E-05	7.59E-08	4.29E-06	1.47E-05	1.76E-08
4931	420938.94	3734169.95	5.55E-05	2.54E-04	5.54E-07	7.60E-06	3.47E-05	8.26E-08	4.67E-06	1.59E-05	1.92E-08
4932	420944.96	3734186.72	6.02E-05	2.75E-04	6.02E-07	8.25E-06	3.76E-05	8.96E-08	5.06E-06	1.73E-05	2.08E-08
4933	420950.98	3734203.5	6.52E-05	2.98E-04	6.51E-07	8.93E-06	4.07E-05	9.70E-08	5.48E-06	1.87E-05	2.25E-08
4934	420953.99	3734211.89	6.77E-05	3.10E-04	6.77E-07	9.29E-06	4.23E-05	1.01E-07	5.70E-06	1.95E-05	2.34E-08
4935	420960.01	3734228.67	7.30E-05	3.34E-04	7.29E-07	1.00E-05	4.56E-05	1.09E-07	6.14E-06	2.10E-05	2.52E-08
4936	420966.03	3734245.45	7.84E-05	3.58E-04	7.83E-07	1.07E-05	4.90E-05	1.17E-07	6.59E-06	2.25E-05	2.71E-08
4937	420812.4	3734051.54	3.14E-05	1.43E-04	3.13E-07	4.30E-06	1.96E-05	4.67E-08	2.64E-06	9.01E-06	1.08E-08
4938	420820.23	3734056.28	3.22E-05	1.47E-04	3.22E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.25E-06	1.11E-08
4939	420828.05	3734061.02	3.30E-05	1.51E-04	3.30E-07	4.52E-06	2.06E-05	4.91E-08	2.78E-06	9.48E-06	1.14E-08
4940	420835.87	3734065.76	3.38E-05	1.55E-04	3.38E-07	4.64E-06	2.12E-05	5.04E-08	2.85E-06	9.72E-06	1.17E-08
4941	420843.7	3734070.5	3.47E-05	1.59E-04	3.46E-07	4.75E-06	2.17E-05	5.16E-08	2.92E-06	9.96E-06	1.20E-08
4942	420851.52	3734075.24	3.55E-05	1.62E-04	3.55E-07	4.87E-06	2.22E-05	5.28E-08	2.99E-06	1.02E-05	1.23E-08
4943	420906.28	3734108.42	4.11E-05	1.88E-04	4.11E-07	5.63E-06	2.57E-05	6.12E-08	3.46E-06	1.18E-05	1.42E-08
4944	420914.1	3734113.16	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.62E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
4945	420921.93	3734117.9	4.25E-05	1.94E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
4946	420929.75	3734122.64	4.32E-05	1.97E-04	4.32E-07	5.92E-06	2.70E-05	6.43E-08	3.63E-06	1.24E-05	1.49E-08
4947	420937.57	3734127.38	4.38E-05	2.00E-04	4.38E-07	6.00E-06	2.74E-05	6.52E-08	3.69E-06	1.26E-05	1.51E-08
4948	420948.48	3734140.73	4.63E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.89E-08	3.89E-06	1.33E-05	1.60E-08
4949	420951.57	3734149.34	4.82E-05	2.20E-04	4.82E-07	6.61E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.67E-08
4950	420954.66	3734157.95	5.02E-05	2.29E-04	5.01E-07	6.88E-06	3.14E-05	7.47E-08	4.22E-06	1.44E-05	1.73E-08
4951	420957.75	3734166.56	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4952	420960.84	3734175.17	5.43E-05	2.48E-04	5.43E-07	7.44E-06	3.40E-05	8.08E-08	4.57E-06	1.56E-05	1.88E-08
4953	420963.93	3734183.78	5.64E-05	2.58E-04	5.64E-07	7.74E-06	3.53E-05	8.40E-08	4.75E-06	1.62E-05	1.95E-08
4954	420967.02	3734192.39	5.86E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.93E-06	1.68E-05	2.03E-08
4955	420970.11	3734201	6.08E-05	2.78E-04	6.08E-07	8.34E-06	3.80E-05	9.05E-08	5.12E-06	1.75E-05	2.10E-08
4956	420973.2	3734209.61	6.31E-05	2.88E-04	6.30E-07	8.64E-06	3.94E-05	9.39E-08	5.30E-06	1.81E-05	2.18E-08

4957	420976.29	3734218.22	6.53E-05	2.99E-04	6.53E-07	8.95E-06	4.08E-05	9.72E-08	5.50E-06	1.88E-05	2.26E-08
4958	420979.38	3734226.83	6.76E-05	3.09E-04	6.76E-07	9.27E-06	4.23E-05	1.01E-07	5.69E-06	1.94E-05	2.34E-08
4959	420982.46	3734235.44	6.99E-05	3.20E-04	6.99E-07	9.58E-06	4.37E-05	1.04E-07	5.88E-06	2.01E-05	2.42E-08
4960	420985.55	3734244.05	7.22E-05	3.30E-04	7.22E-07	9.90E-06	4.51E-05	1.07E-07	6.07E-06	2.07E-05	2.49E-08
4961	420988.64	3734252.66	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.58E-08
4962	421001	3734287.1	8.44E-05	3.86E-04	8.43E-07	1.16E-05	5.28E-05	1.26E-07	7.10E-06	2.42E-05	2.92E-08
4963	420816.05	3734031.71	2.83E-05	1.29E-04	2.83E-07	3.88E-06	1.77E-05	4.21E-08	2.38E-06	8.13E-06	9.78E-09
4964	420831.3	3734040.95	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.53E-06	1.03E-08
4965	420846.54	3734050.19	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.61E-06	8.93E-06	1.07E-08
4966	420907.52	3734087.13	3.66E-05	1.67E-04	3.65E-07	5.01E-06	2.29E-05	5.44E-08	3.08E-06	1.05E-05	1.26E-08
4967	420922.77	3734096.37	3.78E-05	1.73E-04	3.78E-07	5.19E-06	2.37E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
4968	420938.01	3734105.61	3.90E-05	1.78E-04	3.90E-07	5.35E-06	2.44E-05	5.81E-08	3.28E-06	1.12E-05	1.35E-08
4969	420953.26	3734114.85	4.00E-05	1.83E-04	4.00E-07	5.49E-06	2.50E-05	5.96E-08	3.37E-06	1.15E-05	1.38E-08
4970	420963.89	3734127.85	4.20E-05	1.92E-04	4.20E-07	5.76E-06	2.63E-05	6.26E-08	3.54E-06	1.21E-05	1.45E-08
4971	420966.9	3734136.24	4.37E-05	2.00E-04	4.36E-07	5.98E-06	2.73E-05	6.50E-08	3.67E-06	1.25E-05	1.51E-08
4972	420969.91	3734144.63	4.53E-05	2.07E-04	4.53E-07	6.21E-06	2.83E-05	6.74E-08	3.81E-06	1.30E-05	1.57E-08
4973	420975.93	3734161.41	4.87E-05	2.23E-04	4.87E-07	6.68E-06	3.05E-05	7.25E-08	4.10E-06	1.40E-05	1.68E-08
4974	420981.95	3734178.19	5.23E-05	2.39E-04	5.22E-07	7.17E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4975	420987.97	3734194.96	5.59E-05	2.56E-04	5.59E-07	7.67E-06	3.50E-05	8.32E-08	4.70E-06	1.61E-05	1.93E-08
4976	420993.99	3734211.74	5.96E-05	2.73E-04	5.96E-07	8.17E-06	3.73E-05	8.88E-08	5.02E-06	1.71E-05	2.06E-08
4977	420997	3734220.13	6.15E-05	2.81E-04	6.15E-07	8.43E-06	3.85E-05	9.16E-08	5.17E-06	1.77E-05	2.13E-08
4978	421003.02	3734236.91	6.52E-05	2.98E-04	6.52E-07	8.94E-06	4.08E-05	9.71E-08	5.49E-06	1.87E-05	2.25E-08
4979	421021.08	3734287.24	7.73E-05	3.53E-04	7.73E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4980	420820.45	3734012.34	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
4981	420828.25	3734017.06	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.21E-06	7.56E-06	9.10E-09
4982	420836.04	3734021.78	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
4983	420843.84	3734026.51	2.76E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.92E-06	9.52E-09
4984	420851.63	3734031.23	2.82E-05	1.29E-04	2.82E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.10E-06	9.74E-09
4985	420859.43	3734035.95	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.42E-06	8.28E-06	9.95E-09
4986	420898.41	3734059.57	3.19E-05	1.46E-04	3.19E-07	4.37E-06	1.99E-05	4.75E-08	2.68E-06	9.16E-06	1.10E-08
4987	420906.2	3734064.3	3.25E-05	1.49E-04	3.25E-07	4.45E-06	2.03E-05	4.84E-08	2.73E-06	9.34E-06	1.12E-08
4988	420914	3734069.02	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.78E-06	9.51E-06	1.14E-08
4989	420921.8	3734073.74	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.01E-08	2.83E-06	9.68E-06	1.16E-08
4990	420929.59	3734078.47	3.43E-05	1.57E-04	3.42E-07	4.70E-06	2.14E-05	5.10E-08	2.88E-06	9.84E-06	1.18E-08
4991	420937.39	3734083.19	3.48E-05	1.59E-04	3.48E-07	4.77E-06	2.18E-05	5.18E-08	2.93E-06	1.00E-05	1.20E-08
4992	420945.18	3734087.91	3.53E-05	1.61E-04	3.53E-07	4.84E-06	2.21E-05	5.26E-08	2.97E-06	1.01E-05	1.22E-08
4993	420952.98	3734092.64	3.58E-05	1.64E-04	3.58E-07	4.91E-06	2.24E-05	5.33E-08	3.01E-06	1.03E-05	1.24E-08
4994	420960.77	3734097.36	3.63E-05	1.66E-04	3.62E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
4995	420968.57	3734102.08	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
4996	420979.44	3734115.39	3.85E-05	1.76E-04	3.84E-07	5.27E-06	2.40E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
4997	420982.52	3734123.97	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.49E-05	5.94E-08	3.35E-06	1.15E-05	1.38E-08
4998	420985.6	3734132.55	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.48E-06	1.19E-05	1.43E-08
4999	420988.68	3734141.13	4.28E-05	1.96E-04	4.28E-07	5.87E-06	2.68E-05	6.37E-08	3.60E-06	1.23E-05	1.48E-08
5000	420991.76	3734149.7	4.43E-05	2.03E-04	4.43E-07	6.07E-06	2.77E-05	6.60E-08	3.73E-06	1.27E-05	1.53E-08
5001	420994.84	3734158.28	4.59E-05	2.10E-04	4.58E-07	6.29E-06	2.87E-05	6.83E-08	3.86E-06	1.32E-05	1.58E-08
5002	420997.91	3734166.86	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.96E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
5003	421000.99	3734175.44	4.90E-05	2.24E-04	4.90E-07	6.71E-06	3.06E-05	7.29E-08	4.12E-06	1.41E-05	1.69E-08
5004	421004.07	3734184.02	5.06E-05	2.31E-04	5.05E-07	6.93E-06	3.16E-05	7.53E-08	4.25E-06	1.45E-05	1.75E-08
5005	421007.15	3734192.6	5.22E-05	2.39E-04	5.21E-07	7.15E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
5006	421010.23	3734201.18	5.38E-05	2.46E-04	5.38E-07	7.37E-06	3.36E-05	8.01E-08	4.52E-06	1.55E-05	1.86E-08
5007	421013.31	3734209.76	5.54E-05	2.53E-04	5.54E-07	7.59E-06	3.46E-05	8.25E-08	4.66E-06	1.59E-05	1.91E-08
5008	421016.38	3734218.34	5.70E-05	2.61E-04	5.70E-07	7.82E-06	3.57E-05	8.49E-08	4.80E-06	1.64E-05	1.97E-08
5009	421019.46	3734226.92	5.87E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.93E-06	1.69E-05	2.03E-08
5010	421022.54	3734235.5	6.03E-05	2.76E-04	6.02E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
5011	421025.62	3734244.08	6.19E-05	2.83E-04	6.19E-07	8.48E-06	3.87E-05	9.21E-08	5.21E-06	1.78E-05	2.14E-08
5012	420828.51	3733973.14	2.15E-05	9.82E-05	2.15E-07	2.94E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
5013	420844.06	3733982.56	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.44E-06	7.74E-09
5014	420851.84	3733987.27	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
5015	420859.61	3733991.98	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.48E-08	1.96E-06	6.71E-06	8.07E-09
5016	420906.26	3734020.25	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.20E-06	7.53E-06	9.05E-09
5017	420914.04	3734024.96	2.67E-05	1.22E-04	2.67E-07	3.66E-06	1.67E-05	3.97E-08	2.24E-06	7.67E-06	9.22E-09
5018	420921.81	3734029.67	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.80E-06	9.38E-09

5019	420929.59	3734034.38	2.76E-05	1.26E-04	2.76E-07	3.79E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
5020	420945.14	3734043.8	2.85E-05	1.30E-04	2.85E-07	3.91E-06	1.78E-05	4.25E-08	2.40E-06	8.20E-06	9.86E-09
5021	420952.91	3734048.52	2.90E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
5022	420960.69	3734053.23	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
5023	420968.46	3734057.94	2.98E-05	1.36E-04	2.98E-07	4.08E-06	1.86E-05	4.44E-08	2.51E-06	8.56E-06	1.03E-08
5024	420976.24	3734062.65	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.49E-08	2.54E-06	8.67E-06	1.04E-08
5025	420991.79	3734072.07	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
5026	420999.56	3734076.78	3.12E-05	1.43E-04	3.12E-07	4.28E-06	1.95E-05	4.65E-08	2.63E-06	8.97E-06	1.08E-08
5027	421010.41	3734090.05	3.25E-05	1.49E-04	3.25E-07	4.46E-06	2.03E-05	4.84E-08	2.73E-06	9.34E-06	1.12E-08
5028	421013.48	3734098.61	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.64E-06	1.16E-08
5029	421016.55	3734107.16	3.46E-05	1.58E-04	3.46E-07	4.75E-06	2.16E-05	5.15E-08	2.91E-06	9.95E-06	1.20E-08
5030	421019.62	3734115.72	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.00E-06	1.03E-05	1.23E-08
5031	421022.69	3734124.28	3.68E-05	1.68E-04	3.68E-07	5.05E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
5032	421025.76	3734132.83	3.79E-05	1.74E-04	3.79E-07	5.20E-06	2.37E-05	5.65E-08	3.19E-06	1.09E-05	1.31E-08
5033	421028.83	3734141.39	3.91E-05	1.79E-04	3.91E-07	5.36E-06	2.44E-05	5.82E-08	3.29E-06	1.12E-05	1.35E-08
5034	421031.9	3734149.95	4.02E-05	1.84E-04	4.02E-07	5.52E-06	2.52E-05	5.99E-08	3.38E-06	1.16E-05	1.39E-08
5035	421034.97	3734158.5	4.14E-05	1.89E-04	4.14E-07	5.67E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
5036	421038.04	3734167.06	4.25E-05	1.94E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
5037	421041.11	3734175.62	4.37E-05	2.00E-04	4.37E-07	5.99E-06	2.73E-05	6.51E-08	3.68E-06	1.26E-05	1.51E-08
5038	421044.18	3734184.17	4.49E-05	2.05E-04	4.48E-07	6.15E-06	2.80E-05	6.68E-08	3.77E-06	1.29E-05	1.55E-08
5039	421047.25	3734192.73	4.60E-05	2.10E-04	4.60E-07	6.31E-06	2.88E-05	6.85E-08	3.87E-06	1.32E-05	1.59E-08
5040	421050.32	3734201.29	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.02E-08	3.97E-06	1.36E-05	1.63E-08
5041	421053.39	3734209.84	4.83E-05	2.21E-04	4.83E-07	6.63E-06	3.02E-05	7.19E-08	4.07E-06	1.39E-05	1.67E-08
5042	421056.46	3734218.4	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.09E-05	7.37E-08	4.16E-06	1.42E-05	1.71E-08
5043	421059.53	3734226.96	5.07E-05	2.32E-04	5.06E-07	6.95E-06	3.17E-05	7.54E-08	4.26E-06	1.46E-05	1.75E-08
5044	421062.6	3734235.51	5.18E-05	2.37E-04	5.18E-07	7.11E-06	3.24E-05	7.72E-08	4.36E-06	1.49E-05	1.79E-08
5045	421065.67	3734244.07	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
5046	420794.88	3733959.98	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
5047	420921.93	3733985.66	2.23E-05	1.02E-04	2.23E-07	3.05E-06	1.39E-05	3.31E-08	1.87E-06	6.40E-06	7.69E-09
5048	420937.44	3733995.06	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.61E-06	7.95E-09
5049	420945.2	3733999.76	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.72E-06	8.08E-09
5050	420952.96	3734004.47	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
5051	420960.72	3734009.17	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
5052	420976.24	3734018.57	2.48E-05	1.14E-04	2.48E-07	3.40E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.58E-09
5053	420984	3734023.27	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.57E-05	3.75E-08	2.12E-06	7.23E-06	8.70E-09
5054	420991.75	3734027.97	2.55E-05	1.17E-04	2.55E-07	3.50E-06	1.59E-05	3.80E-08	2.15E-06	7.33E-06	8.81E-09
5055	420999.51	3734032.67	2.58E-05	1.18E-04	2.58E-07	3.54E-06	1.61E-05	3.84E-08	2.17E-06	7.42E-06	8.92E-09
5056	421015.03	3734042.07	2.64E-05	1.21E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.22E-06	7.57E-06	9.11E-09
5057	421022.79	3734046.77	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.19E-09
5058	421030.55	3734051.48	2.68E-05	1.23E-04	2.68E-07	3.68E-06	1.68E-05	3.99E-08	2.26E-06	7.71E-06	9.27E-09
5059	421041.37	3734064.72	2.78E-05	1.27E-04	2.78E-07	3.81E-06	1.74E-05	4.14E-08	2.34E-06	8.00E-06	9.62E-09
5060	421044.43	3734073.25	2.86E-05	1.31E-04	2.86E-07	3.93E-06	1.79E-05	4.26E-08	2.41E-06	8.23E-06	9.90E-09
5061	421047.5	3734081.79	2.95E-05	1.35E-04	2.94E-07	4.04E-06	1.84E-05	4.38E-08	2.48E-06	8.46E-06	1.02E-08
5062	421050.56	3734090.33	3.03E-05	1.38E-04	3.03E-07	4.15E-06	1.89E-05	4.51E-08	2.55E-06	8.70E-06	1.05E-08
5063	421053.62	3734098.87	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.62E-06	8.94E-06	1.07E-08
5064	421056.69	3734107.41	3.20E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.18E-06	1.10E-08
5065	421059.75	3734115.95	3.28E-05	1.50E-04	3.28E-07	4.50E-06	2.05E-05	4.88E-08	2.76E-06	9.42E-06	1.13E-08
5066	421062.82	3734124.49	3.36E-05	1.54E-04	3.36E-07	4.61E-06	2.10E-05	5.01E-08	2.83E-06	9.67E-06	1.16E-08
5067	421065.88	3734133.03	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.13E-08	2.90E-06	9.91E-06	1.19E-08
5068	421068.94	3734141.56	3.53E-05	1.62E-04	3.53E-07	4.84E-06	2.21E-05	5.26E-08	2.97E-06	1.02E-05	1.22E-08
5069	421072.01	3734150.1	3.62E-05	1.65E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.04E-06	1.04E-05	1.25E-08
5070	421075.07	3734158.64	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
5071	421078.13	3734167.18	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
5072	421081.2	3734175.72	3.88E-05	1.77E-04	3.87E-07	5.31E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
5073	421084.26	3734184.26	3.96E-05	1.81E-04	3.96E-07	5.43E-06	2.48E-05	5.90E-08	3.33E-06	1.14E-05	1.37E-08
5074	421087.32	3734192.8	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
5075	420802.99	3733920.81	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.44E-06	4.93E-06	5.93E-09
5076	420852.41	3733899.46	1.60E-05	7.31E-05	1.60E-07	2.19E-06	1.00E-05	2.38E-08	1.35E-06	4.60E-06	5.53E-09
5077	420860.15	3733904.15	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.63E-09
5078	420891.13	3733922.92	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.47E-06	5.01E-06	6.02E-09
5079	420945.35	3733955.77	1.95E-05	8.91E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.60E-06	6.74E-09
5080	420953.1	3733960.47	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09

5081	420960.84	3733965.16	2.01E-05	9.19E-05	2.01E-07	2.75E-06	1.26E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
5082	420976.33	3733974.55	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.95E-06	7.15E-09
5083	420984.08	3733979.24	2.10E-05	9.60E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
5084	420991.82	3733983.93	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.11E-06	7.35E-09
5085	421007.31	3733993.32	2.18E-05	9.98E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.84E-06	6.27E-06	7.54E-09
5086	421015.06	3733998.01	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
5087	421022.8	3734002.7	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.40E-05	3.32E-08	1.88E-06	6.42E-06	7.72E-09
5088	421030.55	3734007.4	2.26E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.80E-09
5089	421046.04	3734016.78	2.30E-05	1.05E-04	2.30E-07	3.15E-06	1.44E-05	3.42E-08	1.93E-06	6.60E-06	7.94E-09
5090	421053.79	3734021.48	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.45E-08	1.95E-06	6.65E-06	8.00E-09
5091	421061.53	3734026.17	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.47E-08	1.96E-06	6.70E-06	8.06E-09
5092	421072.33	3734039.39	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.59E-08	2.03E-06	6.92E-06	8.32E-09
5093	421075.39	3734047.91	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
5094	421078.45	3734056.43	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.77E-08	2.13E-06	7.29E-06	8.76E-09
5095	421081.51	3734064.96	2.60E-05	1.19E-04	2.60E-07	3.56E-06	1.63E-05	3.87E-08	2.19E-06	7.47E-06	8.98E-09
5096	421084.57	3734073.48	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.67E-05	3.97E-08	2.24E-06	7.66E-06	9.21E-09
5097	421087.63	3734082.01	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.84E-06	9.43E-09
5098	421090.69	3734090.53	2.79E-05	1.28E-04	2.79E-07	3.83E-06	1.75E-05	4.16E-08	2.35E-06	8.03E-06	9.66E-09
5099	421093.74	3734099.06	2.86E-05	1.31E-04	2.86E-07	3.92E-06	1.79E-05	4.26E-08	2.41E-06	8.21E-06	9.88E-09
5100	421096.8	3734107.58	2.92E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.35E-08	2.46E-06	8.40E-06	1.01E-08
5101	421099.86	3734116.1	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
5102	421102.92	3734124.63	3.05E-05	1.39E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.76E-06	1.05E-08
5103	421105.98	3734133.15	3.11E-05	1.42E-04	3.11E-07	4.27E-06	1.95E-05	4.64E-08	2.62E-06	8.95E-06	1.08E-08
5104	421109.04	3734141.68	3.18E-05	1.45E-04	3.18E-07	4.36E-06	1.99E-05	4.73E-08	2.67E-06	9.13E-06	1.10E-08
5105	421112.09	3734150.2	3.24E-05	1.48E-04	3.24E-07	4.44E-06	2.03E-05	4.83E-08	2.73E-06	9.31E-06	1.12E-08
5106	421161.03	3734286.59	4.46E-05	2.04E-04	4.46E-07	6.11E-06	2.79E-05	6.64E-08	3.75E-06	1.28E-05	1.54E-08
5107	420811.09	3733881.64	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.21E-08	1.25E-06	4.27E-06	5.14E-09
5108	420860.48	3733860.27	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.71E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
5109	420868.21	3733864.95	1.42E-05	6.47E-05	1.42E-07	1.94E-06	8.85E-06	2.11E-08	1.19E-06	4.07E-06	4.89E-09
5110	420875.94	3733869.64	1.44E-05	6.58E-05	1.44E-07	1.97E-06	9.00E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
5111	420899.15	3733883.7	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.43E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
5112	420906.88	3733888.39	1.53E-05	7.00E-05	1.53E-07	2.10E-06	9.57E-06	2.28E-08	1.29E-06	4.40E-06	5.29E-09
5113	420937.82	3733907.13	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.62E-09
5114	420953.29	3733916.5	1.68E-05	7.66E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.79E-09
5115	420961.02	3733921.19	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
5116	421015.17	3733954	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
5117	421022.9	3733958.68	1.89E-05	8.64E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.43E-06	6.53E-09
5118	421038.37	3733968.06	1.93E-05	8.84E-05	1.93E-07	2.65E-06	1.21E-05	2.88E-08	1.63E-06	5.55E-06	6.68E-09
5119	421046.1	3733972.74	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
5120	421053.84	3733977.43	1.97E-05	9.01E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.81E-09
5121	421069.31	3733986.8	2.01E-05	9.17E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.77E-06	6.93E-09
5122	421077.04	3733991.49	2.02E-05	9.25E-05	2.02E-07	2.77E-06	1.26E-05	3.01E-08	1.70E-06	5.81E-06	6.99E-09
5123	421084.78	3733996.17	2.04E-05	9.31E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.04E-09
5124	421103.3	3734014.06	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.06E-06	7.29E-09
5125	421106.35	3734022.57	2.16E-05	9.88E-05	2.16E-07	2.96E-06	1.35E-05	3.22E-08	1.82E-06	6.21E-06	7.46E-09
5126	421109.41	3734031.08	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.64E-09
5127	421112.46	3734039.6	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.36E-08	1.90E-06	6.49E-06	7.81E-09
5128	421115.52	3734048.11	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.99E-09
5129	421118.57	3734056.62	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.79E-06	8.16E-09
5130	421121.63	3734065.13	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
5131	421124.68	3734073.64	2.46E-05	1.13E-04	2.46E-07	3.38E-06	1.54E-05	3.67E-08	2.07E-06	7.08E-06	8.51E-09
5132	421127.73	3734082.16	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.69E-09
5133	421130.79	3734090.67	2.56E-05	1.17E-04	2.56E-07	3.51E-06	1.60E-05	3.82E-08	2.16E-06	7.37E-06	8.86E-09
5134	421133.84	3734099.18	2.61E-05	1.19E-04	2.61E-07	3.58E-06	1.63E-05	3.89E-08	2.20E-06	7.51E-06	9.03E-09
5135	421136.9	3734107.69	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.20E-09
5136	421197.98	3734277.94	3.79E-05	1.74E-04	3.79E-07	5.20E-06	2.37E-05	5.65E-08	3.19E-06	1.09E-05	1.31E-08
5137	421201.03	3734286.45	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
5138	420828.23	3733844.34	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.21E-06	1.96E-08	1.11E-06	3.77E-06	4.54E-09
5139	420819.19	3733842.47	1.30E-05	5.95E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
5140	420876.28	3733825.76	1.25E-05	5.69E-05	1.24E-07	1.71E-06	7.79E-06	1.85E-08	1.05E-06	3.58E-06	4.30E-09
5141	420907.18	3733844.48	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5142	420914.9	3733849.16	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.38E-06	2.00E-08	1.13E-06	3.85E-06	4.63E-09

5143	420930.35	3733858.53	1.38E-05	6.31E-05	1.38E-07	1.89E-06	8.63E-06	2.05E-08	1.16E-06	3.97E-06	4.77E-09
5144	420961.26	3733877.25	1.46E-05	6.67E-05	1.46E-07	2.00E-06	9.12E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
5145	420968.98	3733881.93	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.25E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
5146	420984.43	3733891.29	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.50E-06	2.26E-08	1.28E-06	4.37E-06	5.25E-09
5147	420992.16	3733895.97	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.42E-06	5.32E-09
5148	420999.88	3733900.66	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5149	421015.33	3733910.02	1.60E-05	7.31E-05	1.60E-07	2.19E-06	1.00E-05	2.38E-08	1.35E-06	4.60E-06	5.53E-09
5150	421023.06	3733914.7	1.62E-05	7.40E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.65E-06	5.60E-09
5151	421030.79	3733919.38	1.64E-05	7.49E-05	1.64E-07	2.25E-06	1.02E-05	2.44E-08	1.38E-06	4.71E-06	5.66E-09
5152	421084.86	3733952.15	1.76E-05	8.04E-05	1.76E-07	2.41E-06	1.10E-05	2.62E-08	1.48E-06	5.05E-06	6.08E-09
5153	421100.31	3733961.51	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
5154	421108.04	3733966.19	1.80E-05	8.22E-05	1.80E-07	2.46E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.21E-09
5155	421123.49	3733975.55	1.82E-05	8.31E-05	1.82E-07	2.49E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.28E-09
5156	421134.27	3733988.73	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
5157	421137.32	3733997.24	1.91E-05	8.72E-05	1.91E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
5158	421140.37	3734005.74	1.95E-05	8.90E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.60E-06	6.73E-09
5159	421143.42	3734014.24	1.99E-05	9.09E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
5160	421146.47	3734022.74	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
5161	421149.52	3734031.25	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
5162	421152.57	3734039.75	2.11E-05	9.64E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.77E-06	6.06E-06	7.29E-09
5163	421155.62	3734048.25	2.15E-05	9.83E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
5164	421158.67	3734056.75	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.29E-06	7.56E-09
5165	421161.72	3734065.25	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.40E-06	7.70E-09
5166	421195.28	3734158.78	2.65E-05	1.21E-04	2.65E-07	3.63E-06	1.66E-05	3.95E-08	2.23E-06	7.62E-06	9.16E-09
5167	421198.33	3734167.28	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.30E-09
5168	421201.38	3734175.78	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.85E-06	9.44E-09
5169	421204.43	3734184.29	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.96E-06	9.58E-09
5170	421207.48	3734192.79	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
5171	421210.53	3734201.29	2.86E-05	1.31E-04	2.86E-07	3.92E-06	1.79E-05	4.26E-08	2.41E-06	8.22E-06	9.88E-09
5172	421213.58	3734209.79	2.91E-05	1.33E-04	2.90E-07	3.98E-06	1.82E-05	4.32E-08	2.44E-06	8.35E-06	1.00E-08
5173	420836.33	3733805.17	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.27E-06	1.73E-08	9.78E-07	3.34E-06	4.02E-09
5174	420827.29	3733803.3	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.70E-07	3.31E-06	3.98E-09
5175	420884.35	3733786.57	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.92E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
5176	420915.22	3733805.28	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
5177	420922.94	3733809.95	1.19E-05	5.42E-05	1.19E-07	1.63E-06	7.41E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
5178	420930.65	3733814.63	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5179	420946.09	3733823.98	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
5180	420969.24	3733838.01	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.03E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
5181	420976.96	3733842.69	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.13E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
5182	420992.4	3733852.04	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
5183	421000.11	3733856.71	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
5184	421007.83	3733861.39	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
5185	421023.27	3733870.74	1.40E-05	6.41E-05	1.40E-07	1.92E-06	8.77E-06	2.09E-08	1.18E-06	4.03E-06	4.85E-09
5186	421030.99	3733875.42	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
5187	421046.42	3733884.77	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.17E-06	5.02E-09
5188	421054.14	3733889.45	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.18E-06	2.19E-08	1.24E-06	4.22E-06	5.07E-09
5189	421061.86	3733894.13	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
5190	421077.29	3733903.48	1.51E-05	6.92E-05	1.51E-07	2.08E-06	9.47E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
5191	421085.01	3733908.15	1.53E-05	6.99E-05	1.53E-07	2.10E-06	9.56E-06	2.28E-08	1.29E-06	4.39E-06	5.28E-09
5192	421100.44	3733917.51	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.73E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
5193	421108.16	3733922.18	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
5194	421165.23	3733963.41	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5195	421168.28	3733971.9	1.70E-05	7.76E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.86E-09
5196	421171.33	3733980.4	1.73E-05	7.91E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.46E-06	4.97E-06	5.98E-09
5197	421174.38	3733988.89	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
5198	421177.42	3733997.39	1.80E-05	8.21E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
5199	421180.47	3734005.88	1.83E-05	8.36E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.32E-09
5200	421186.57	3734022.87	1.89E-05	8.66E-05	1.89E-07	2.60E-06	1.18E-05	2.82E-08	1.59E-06	5.44E-06	6.54E-09
5201	421204.85	3734073.83	2.08E-05	9.52E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
5202	421207.9	3734082.32	2.11E-05	9.66E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.07E-06	7.30E-09
5203	421210.95	3734090.82	2.14E-05	9.80E-05	2.14E-07	2.94E-06	1.34E-05	3.19E-08	1.80E-06	6.16E-06	7.41E-09
5204	421213.99	3734099.31	2.17E-05	9.94E-05	2.17E-07	2.98E-06	1.36E-05	3.24E-08	1.83E-06	6.25E-06	7.51E-09

5205	421235.33	3734158.77	2.39E-05	1.09E-04	2.39E-07	3.27E-06	1.49E-05	3.55E-08	2.01E-06	6.86E-06	8.25E-09
5206	421238.37	3734167.26	2.42E-05	1.11E-04	2.42E-07	3.32E-06	1.51E-05	3.60E-08	2.04E-06	6.95E-06	8.36E-09
5207	421241.42	3734175.75	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
5208	421244.47	3734184.25	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.70E-08	2.09E-06	7.15E-06	8.60E-09
5209	421247.52	3734192.74	2.53E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.76E-08	2.12E-06	7.26E-06	8.73E-09
5210	421250.56	3734201.24	2.56E-05	1.17E-04	2.56E-07	3.51E-06	1.60E-05	3.82E-08	2.16E-06	7.37E-06	8.86E-09
5211	421253.61	3734209.73	2.60E-05	1.19E-04	2.60E-07	3.57E-06	1.63E-05	3.87E-08	2.19E-06	7.48E-06	9.00E-09
5212	421256.66	3734218.22	2.64E-05	1.21E-04	2.64E-07	3.63E-06	1.65E-05	3.94E-08	2.23E-06	7.60E-06	9.14E-09
5213	421259.71	3734226.72	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.29E-09
5214	421262.75	3734235.21	2.74E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
5215	421265.8	3734243.7	2.78E-05	1.27E-04	2.78E-07	3.82E-06	1.74E-05	4.14E-08	2.34E-06	8.00E-06	9.62E-09
5216	421281.04	3734286.17	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
5217	420853.48	3733767.87	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.61E-09
5218	420844.44	3733766	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.74E-07	2.98E-06	3.59E-09
5219	420835.4	3733764.13	1.03E-05	4.71E-05	1.03E-07	1.41E-06	6.44E-06	1.53E-08	8.67E-07	2.96E-06	3.56E-09
5220	420893.16	3733747.83	9.95E-06	4.55E-05	9.94E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
5221	420901.05	3733752.61	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
5222	420932.63	3733771.75	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
5223	420940.53	3733776.53	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5224	420948.42	3733781.31	1.09E-05	4.99E-05	1.09E-07	1.49E-06	6.82E-06	1.62E-08	9.17E-07	3.13E-06	3.77E-09
5225	420956.32	3733786.1	1.10E-05	5.05E-05	1.10E-07	1.51E-06	6.90E-06	1.64E-08	9.29E-07	3.17E-06	3.81E-09
5226	420964.21	3733790.88	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.66E-08	9.41E-07	3.21E-06	3.86E-09
5227	420987.9	3733805.23	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
5228	420995.79	3733810.01	1.18E-05	5.37E-05	1.17E-07	1.61E-06	7.35E-06	1.75E-08	9.89E-07	3.38E-06	4.06E-09
5229	421003.68	3733814.8	1.19E-05	5.44E-05	1.19E-07	1.63E-06	7.44E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
5230	421011.58	3733819.58	1.20E-05	5.51E-05	1.20E-07	1.65E-06	7.53E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
5231	421019.47	3733824.36	1.22E-05	5.58E-05	1.22E-07	1.67E-06	7.62E-06	1.82E-08	1.03E-06	3.50E-06	4.21E-09
5232	421027.37	3733829.15	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.26E-09
5233	421035.26	3733833.93	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
5234	421043.16	3733838.72	1.26E-05	5.78E-05	1.26E-07	1.73E-06	7.90E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
5235	421051.05	3733843.5	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.42E-09
5236	421058.95	3733848.28	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.47E-09
5237	421066.84	3733853.07	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.75E-06	4.52E-09
5238	421074.74	3733857.85	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.56E-09
5239	421082.63	3733862.63	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
5240	421090.53	3733867.42	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.43E-06	2.01E-08	1.13E-06	3.88E-06	4.66E-09
5241	421098.42	3733872.2	1.36E-05	6.23E-05	1.36E-07	1.87E-06	8.51E-06	2.03E-08	1.15E-06	3.91E-06	4.71E-09
5242	421106.32	3733876.98	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
5243	421114.21	3733881.77	1.39E-05	6.34E-05	1.39E-07	1.90E-06	8.67E-06	2.06E-08	1.17E-06	3.98E-06	4.79E-09
5244	421122.1	3733886.55	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.02E-06	4.83E-09
5245	421130	3733891.33	1.41E-05	6.44E-05	1.41E-07	1.93E-06	8.81E-06	2.10E-08	1.19E-06	4.05E-06	4.87E-09
5246	421137.89	3733896.12	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.88E-06	2.11E-08	1.19E-06	4.08E-06	4.91E-09
5247	421145.79	3733900.9	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.94E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
5248	421153.68	3733905.68	1.44E-05	6.58E-05	1.44E-07	1.97E-06	8.99E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
5249	421161.58	3733910.47	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.05E-06	2.15E-08	1.22E-06	4.16E-06	5.00E-09
5250	421169.47	3733915.25	1.45E-05	6.65E-05	1.45E-07	1.99E-06	9.09E-06	2.16E-08	1.22E-06	4.18E-06	5.02E-09
5251	421177.37	3733920.03	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
5252	421205.63	3733964.36	1.58E-05	7.22E-05	1.58E-07	2.17E-06	9.88E-06	2.35E-08	1.33E-06	4.54E-06	5.46E-09
5253	421208.74	3733973.04	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.62E-06	5.55E-09
5254	421211.86	3733981.73	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
5255	421230.57	3734033.86	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
5256	421233.68	3734042.55	1.82E-05	8.32E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
5257	421236.8	3734051.24	1.85E-05	8.44E-05	1.84E-07	2.53E-06	1.15E-05	2.75E-08	1.55E-06	5.30E-06	6.38E-09
5258	421239.92	3734059.93	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
5259	421243.03	3734068.62	1.90E-05	8.67E-05	1.89E-07	2.60E-06	1.18E-05	2.82E-08	1.59E-06	5.45E-06	6.55E-09
5260	421246.15	3734077.31	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
5261	421249.27	3734085.99	1.94E-05	8.89E-05	1.94E-07	2.67E-06	1.22E-05	2.89E-08	1.64E-06	5.59E-06	6.72E-09
5262	421252.39	3734094.68	1.97E-05	9.00E-05	1.97E-07	2.70E-06	1.23E-05	2.93E-08	1.66E-06	5.66E-06	6.80E-09
5263	421255.5	3734103.37	1.99E-05	9.11E-05	1.99E-07	2.73E-06	1.25E-05	2.97E-08	1.68E-06	5.73E-06	6.89E-09
5264	421258.62	3734112.06	2.02E-05	9.23E-05	2.02E-07	2.77E-06	1.26E-05	3.00E-08	1.70E-06	5.80E-06	6.97E-09
5265	421261.74	3734120.75	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
5266	421264.86	3734129.44	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09

5267	421267.97	3734138.13	2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
5268	421271.09	3734146.81	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.78E-06	6.09E-06	7.33E-09
5269	421274.21	3734155.5	2.15E-05	9.82E-05	2.15E-07	2.94E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
5270	421277.33	3734164.19	2.18E-05	9.95E-05	2.18E-07	2.98E-06	1.36E-05	3.24E-08	1.83E-06	6.25E-06	7.52E-09
5271	421280.44	3734172.88	2.21E-05	1.01E-04	2.21E-07	3.02E-06	1.38E-05	3.28E-08	1.86E-06	6.34E-06	7.62E-09
5272	421283.56	3734181.57	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.43E-06	7.73E-09
5273	421286.68	3734190.26	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.38E-08	1.91E-06	6.52E-06	7.84E-09
5274	421289.79	3734198.94	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.62E-06	7.96E-09
5275	421292.91	3734207.63	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.72E-06	8.08E-09
5276	421296.03	3734216.32	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
5277	421299.15	3734225.01	2.42E-05	1.10E-04	2.42E-07	3.31E-06	1.51E-05	3.60E-08	2.03E-06	6.94E-06	8.35E-09
5278	421302.26	3734233.7	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.06E-06	8.49E-09
5279	421305.38	3734242.39	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.19E-06	8.64E-09
5280	421320.97	3734285.83	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.10E-08	2.31E-06	7.91E-06	9.51E-09
5281	420861.58	3733728.69	9.42E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
5282	420852.54	3733726.82	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
5283	420843.5	3733724.95	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
5284	420901.19	3733708.61	9.00E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
5285	420909.07	3733713.39	9.11E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
5286	420916.94	3733718.16	9.23E-06	4.22E-05	9.22E-08	1.26E-06	5.77E-06	1.37E-08	7.76E-07	2.65E-06	3.19E-09
5287	420924.82	3733722.93	9.34E-06	4.27E-05	9.34E-08	1.28E-06	5.84E-06	1.39E-08	7.86E-07	2.68E-06	3.23E-09
5288	420948.45	3733737.25	9.69E-06	4.43E-05	9.68E-08	1.33E-06	6.06E-06	1.44E-08	8.15E-07	2.78E-06	3.35E-09
5289	420956.33	3733742.02	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
5290	420964.2	3733746.79	9.92E-06	4.54E-05	9.92E-08	1.36E-06	6.20E-06	1.48E-08	8.35E-07	2.85E-06	3.43E-09
5291	420972.08	3733751.57	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.49E-08	8.45E-07	2.89E-06	3.47E-09
5292	420979.95	3733756.34	1.02E-05	4.64E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
5293	420987.83	3733761.11	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.95E-06	3.55E-09
5294	421003.58	3733770.66	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.64E-09
5295	421011.46	3733775.43	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.58E-08	8.96E-07	3.06E-06	3.68E-09
5296	421019.34	3733780.2	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5297	421027.21	3733784.97	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.76E-09
5298	421035.09	3733789.75	1.10E-05	5.04E-05	1.10E-07	1.51E-06	6.89E-06	1.64E-08	9.27E-07	3.17E-06	3.81E-09
5299	421042.97	3733794.52	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
5300	421050.84	3733799.29	1.13E-05	5.15E-05	1.13E-07	1.54E-06	7.04E-06	1.68E-08	9.48E-07	3.24E-06	3.89E-09
5301	421058.72	3733804.06	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.70E-08	9.59E-07	3.27E-06	3.94E-09
5302	421066.6	3733808.84	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.20E-06	1.72E-08	9.69E-07	3.31E-06	3.98E-09
5303	421074.47	3733813.61	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.80E-07	3.35E-06	4.02E-09
5304	421082.35	3733818.38	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
5305	421090.23	3733823.15	1.19E-05	5.44E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
5306	421098.1	3733827.93	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5307	421105.98	3733832.7	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.58E-06	1.81E-08	1.02E-06	3.49E-06	4.19E-09
5308	421113.86	3733837.47	1.22E-05	5.60E-05	1.22E-07	1.68E-06	7.66E-06	1.82E-08	1.03E-06	3.52E-06	4.23E-09
5309	421121.73	3733842.24	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
5310	421129.61	3733847.02	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.80E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
5311	421137.48	3733851.79	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
5312	421145.36	3733856.56	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
5313	421153.24	3733861.33	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.42E-09
5314	421161.11	3733866.11	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.70E-06	4.44E-09
5315	421168.99	3733870.88	1.29E-05	5.92E-05	1.29E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
5316	421176.87	3733875.65	1.30E-05	5.95E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
5317	421184.74	3733880.42	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
5318	421192.62	3733885.2	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
5319	421200.5	3733889.97	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5320	421208.37	3733894.74	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.30E-06	1.98E-08	1.12E-06	3.81E-06	4.59E-09
5321	421216.25	3733899.51	1.33E-05	6.09E-05	1.33E-07	1.83E-06	8.33E-06	1.98E-08	1.12E-06	3.83E-06	4.60E-09
5322	421255.23	3733990.97	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.76E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5323	421258.34	3733999.64	1.58E-05	7.23E-05	1.58E-07	2.17E-06	9.89E-06	2.35E-08	1.33E-06	4.55E-06	5.47E-09
5324	421261.45	3734008.31	1.60E-05	7.33E-05	1.60E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.54E-09
5325	421264.56	3734016.98	1.62E-05	7.42E-05	1.62E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.61E-09
5326	421267.67	3734025.65	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.72E-06	5.68E-09
5327	421270.78	3734034.31	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5328	421273.89	3734042.98	1.68E-05	7.70E-05	1.68E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.84E-06	5.82E-09

5329	421277	3734051.65	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
5330	421280.11	3734060.32	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.95E-06	5.96E-09
5331	421283.22	3734068.99	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.01E-06	6.02E-09
5332	421286.33	3734077.66	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.07E-06	6.09E-09
5333	421289.44	3734086.33	1.78E-05	8.15E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
5334	421292.55	3734094.99	1.80E-05	8.23E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
5335	421295.66	3734103.66	1.82E-05	8.32E-05	1.82E-07	2.49E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
5336	421298.77	3734112.33	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
5337	421301.88	3734121	1.86E-05	8.52E-05	1.86E-07	2.55E-06	1.17E-05	2.77E-08	1.57E-06	5.35E-06	6.44E-09
5338	421304.99	3734129.67	1.88E-05	8.62E-05	1.88E-07	2.58E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.51E-09
5339	421308.1	3734138.34	1.91E-05	8.72E-05	1.91E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
5340	421311.21	3734147	1.93E-05	8.82E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
5341	421314.32	3734155.67	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
5342	421317.43	3734164.34	1.98E-05	9.04E-05	1.98E-07	2.71E-06	1.24E-05	2.94E-08	1.66E-06	5.68E-06	6.84E-09
5343	421320.54	3734173.01	2.00E-05	9.16E-05	2.00E-07	2.75E-06	1.25E-05	2.98E-08	1.69E-06	5.76E-06	6.92E-09
5344	421323.65	3734181.68	2.03E-05	9.28E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.84E-06	7.02E-09
5345	421326.76	3734190.35	2.06E-05	9.42E-05	2.06E-07	2.82E-06	1.29E-05	3.07E-08	1.73E-06	5.92E-06	7.12E-09
5346	421329.87	3734199.02	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
5347	421332.98	3734207.68	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.78E-06	6.09E-06	7.33E-09
5348	421336.09	3734216.35	2.15E-05	9.85E-05	2.15E-07	2.95E-06	1.35E-05	3.21E-08	1.81E-06	6.19E-06	7.44E-09
5349	421339.2	3734225.02	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.29E-06	7.56E-09
5350	421342.31	3734233.69	2.23E-05	1.02E-04	2.22E-07	3.05E-06	1.39E-05	3.31E-08	1.87E-06	6.39E-06	7.69E-09
5351	421345.42	3734242.36	2.26E-05	1.04E-04	2.26E-07	3.10E-06	1.42E-05	3.37E-08	1.91E-06	6.51E-06	7.83E-09
5352	421360.98	3734285.7	2.48E-05	1.14E-04	2.48E-07	3.40E-06	1.55E-05	3.70E-08	2.09E-06	7.13E-06	8.58E-09
5353	420869.68	3733689.52	8.56E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
5354	420860.64	3733687.65	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.32E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
5355	420851.6	3733685.78	8.45E-06	3.86E-05	8.45E-08	1.16E-06	5.28E-06	1.26E-08	7.11E-07	2.43E-06	2.92E-09
5356	420909.23	3733669.4	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.84E-09
5357	420917.09	3733674.17	8.30E-06	3.79E-05	8.30E-08	1.14E-06	5.19E-06	1.24E-08	6.98E-07	2.38E-06	2.87E-09
5358	420924.95	3733678.93	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
5359	420932.81	3733683.69	8.49E-06	3.88E-05	8.49E-08	1.16E-06	5.31E-06	1.26E-08	7.14E-07	2.44E-06	2.93E-09
5360	420940.67	3733688.46	8.59E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
5361	420972.11	3733707.51	8.99E-06	4.11E-05	8.98E-08	1.23E-06	5.62E-06	1.34E-08	7.56E-07	2.58E-06	3.11E-09
5362	420979.97	3733712.27	9.09E-06	4.15E-05	9.08E-08	1.25E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
5363	420987.84	3733717.03	9.19E-06	4.20E-05	9.19E-08	1.26E-06	5.75E-06	1.37E-08	7.73E-07	2.64E-06	3.18E-09
5364	420995.7	3733721.8	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
5365	421003.56	3733726.56	9.39E-06	4.30E-05	9.39E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.25E-09
5366	421027.14	3733740.85	9.71E-06	4.44E-05	9.70E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.35E-09
5367	421035	3733745.61	9.81E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
5368	421042.86	3733750.37	9.92E-06	4.54E-05	9.92E-08	1.36E-06	6.20E-06	1.48E-08	8.35E-07	2.85E-06	3.43E-09
5369	421050.72	3733755.14	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
5370	421058.58	3733759.9	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
5371	421066.44	3733764.66	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.41E-06	1.52E-08	8.62E-07	2.94E-06	3.54E-09
5372	421074.3	3733769.43	1.04E-05	4.73E-05	1.03E-07	1.42E-06	6.47E-06	1.54E-08	8.71E-07	2.98E-06	3.58E-09
5373	421082.16	3733774.19	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.62E-09
5374	421090.02	3733778.95	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
5375	421097.88	3733783.71	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
5376	421105.74	3733788.48	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.74E-06	1.61E-08	9.07E-07	3.10E-06	3.73E-09
5377	421113.61	3733793.24	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
5378	421121.47	3733798	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.87E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
5379	421129.33	3733802.77	1.11E-05	5.07E-05	1.11E-07	1.52E-06	6.94E-06	1.65E-08	9.33E-07	3.19E-06	3.83E-09
5380	421137.19	3733807.53	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.42E-07	3.22E-06	3.87E-09
5381	421145.05	3733812.29	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.06E-06	1.68E-08	9.50E-07	3.24E-06	3.90E-09
5382	421152.91	3733817.05	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.69E-08	9.58E-07	3.27E-06	3.93E-09
5383	421160.77	3733821.82	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
5384	421168.63	3733826.58	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
5385	421176.49	3733831.34	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.80E-07	3.35E-06	4.02E-09
5386	421184.35	3733836.11	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
5387	421192.21	3733840.87	1.18E-05	5.39E-05	1.18E-07	1.62E-06	7.38E-06	1.76E-08	9.93E-07	3.39E-06	4.08E-09
5388	421200.07	3733845.63	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.42E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
5389	421207.93	3733850.39	1.19E-05	5.46E-05	1.19E-07	1.64E-06	7.46E-06	1.78E-08	1.00E-06	3.43E-06	4.12E-09
5390	421215.79	3733855.16	1.20E-05	5.48E-05	1.20E-07	1.64E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.14E-09

5391	421264.41	3733904.92	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.41E-09
5392	421267.51	3733913.58	1.30E-05	5.92E-05	1.30E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.48E-09
5393	421270.62	3733922.23	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
5394	421286.14	3733965.48	1.41E-05	6.44E-05	1.41E-07	1.93E-06	8.80E-06	2.10E-08	1.18E-06	4.04E-06	4.86E-09
5395	421289.24	3733974.13	1.43E-05	6.52E-05	1.42E-07	1.95E-06	8.91E-06	2.12E-08	1.20E-06	4.10E-06	4.93E-09
5396	421292.34	3733982.78	1.44E-05	6.60E-05	1.44E-07	1.98E-06	9.02E-06	2.15E-08	1.21E-06	4.15E-06	4.99E-09
5397	421295.45	3733991.43	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
5398	421298.55	3734000.09	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
5399	421301.66	3734008.74	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
5400	421304.76	3734017.39	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
5401	421307.86	3734026.04	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.28E-06	4.39E-06	5.28E-09
5402	421310.97	3734034.69	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.33E-09
5403	421314.07	3734043.34	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5404	421317.18	3734051.99	1.58E-05	7.20E-05	1.58E-07	2.16E-06	9.85E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
5405	421320.28	3734060.64	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.58E-06	5.50E-09
5406	421323.38	3734069.29	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.01E-05	2.39E-08	1.35E-06	4.62E-06	5.56E-09
5407	421326.49	3734077.95	1.62E-05	7.43E-05	1.62E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.61E-09
5408	421329.59	3734086.6	1.64E-05	7.50E-05	1.64E-07	2.25E-06	1.03E-05	2.44E-08	1.38E-06	4.71E-06	5.67E-09
5409	421332.7	3734095.25	1.66E-05	7.57E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.39E-06	4.76E-06	5.72E-09
5410	421335.8	3734103.9	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.81E-06	5.78E-09
5411	421338.9	3734112.55	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
5412	421342.01	3734121.2	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
5413	421345.11	3734129.85	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.97E-09
5414	421348.21	3734138.5	1.75E-05	7.98E-05	1.75E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.02E-06	6.03E-09
5415	421351.32	3734147.15	1.77E-05	8.07E-05	1.76E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.07E-06	6.10E-09
5416	421354.42	3734155.8	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
5417	421357.53	3734164.46	1.81E-05	8.26E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.25E-09
5418	421360.63	3734173.11	1.83E-05	8.37E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.26E-06	6.33E-09
5419	421363.73	3734181.76	1.85E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
5420	421366.84	3734190.41	1.88E-05	8.59E-05	1.88E-07	2.58E-06	1.17E-05	2.80E-08	1.58E-06	5.40E-06	6.49E-09
5421	421369.94	3734199.06	1.90E-05	8.71E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.58E-09
5422	421373.05	3734207.71	1.93E-05	8.83E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
5423	421376.15	3734216.36	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.92E-08	1.65E-06	5.63E-06	6.77E-09
5424	421379.25	3734225.01	1.99E-05	9.08E-05	1.98E-07	2.72E-06	1.24E-05	2.96E-08	1.67E-06	5.70E-06	6.86E-09
5425	421382.36	3734233.66	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
5426	421385.46	3734242.31	2.04E-05	9.33E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.05E-09
5427	421400.98	3734285.57	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.43E-06	7.73E-09
5428	420877.79	3733650.35	7.83E-06	3.58E-05	7.82E-08	1.07E-06	4.89E-06	1.17E-08	6.58E-07	2.25E-06	2.70E-09
5429	420868.75	3733648.48	7.78E-06	3.56E-05	7.78E-08	1.07E-06	4.86E-06	1.16E-08	6.55E-07	2.24E-06	2.69E-09
5430	420859.71	3733646.61	7.74E-06	3.54E-05	7.73E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
5431	420893.74	3733615.94	7.29E-06	3.33E-05	7.28E-08	9.99E-07	4.56E-06	1.08E-08	6.13E-07	2.09E-06	2.52E-09
5432	420917.28	3733630.2	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
5433	420925.12	3733634.95	7.61E-06	3.48E-05	7.61E-08	1.04E-06	4.76E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
5434	420932.97	3733639.71	7.70E-06	3.52E-05	7.69E-08	1.05E-06	4.81E-06	1.15E-08	6.47E-07	2.21E-06	2.66E-09
5435	420940.82	3733644.46	7.78E-06	3.56E-05	7.77E-08	1.07E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.69E-09
5436	420948.66	3733649.22	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
5437	420956.51	3733653.97	7.95E-06	3.63E-05	7.94E-08	1.09E-06	4.97E-06	1.18E-08	6.68E-07	2.28E-06	2.75E-09
5438	420964.36	3733658.73	8.03E-06	3.67E-05	8.02E-08	1.10E-06	5.02E-06	1.19E-08	6.75E-07	2.31E-06	2.77E-09
5439	420995.74	3733677.74	8.37E-06	3.83E-05	8.37E-08	1.15E-06	5.23E-06	1.25E-08	7.04E-07	2.41E-06	2.89E-09
5440	421003.59	3733682.5	8.46E-06	3.87E-05	8.45E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.92E-09
5441	421011.43	3733687.25	8.55E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.19E-07	2.46E-06	2.95E-09
5442	421019.28	3733692.01	8.64E-06	3.95E-05	8.63E-08	1.18E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.98E-09
5443	421027.13	3733696.76	8.73E-06	3.99E-05	8.72E-08	1.20E-06	5.46E-06	1.30E-08	7.34E-07	2.51E-06	3.02E-09
5444	421050.67	3733711.02	9.00E-06	4.11E-05	8.99E-08	1.23E-06	5.63E-06	1.34E-08	7.57E-07	2.59E-06	3.11E-09
5445	421058.51	3733715.78	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
5446	421066.36	3733720.53	9.19E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.73E-07	2.64E-06	3.17E-09
5447	421074.21	3733725.29	9.28E-06	4.24E-05	9.28E-08	1.27E-06	5.80E-06	1.38E-08	7.81E-07	2.67E-06	3.21E-09
5448	421082.05	3733730.04	9.38E-06	4.29E-05	9.37E-08	1.29E-06	5.86E-06	1.40E-08	7.89E-07	2.69E-06	3.24E-09
5449	421089.9	3733734.8	9.47E-06	4.33E-05	9.46E-08	1.30E-06	5.92E-06	1.41E-08	7.97E-07	2.72E-06	3.27E-09
5450	421097.75	3733739.55	9.56E-06	4.37E-05	9.56E-08	1.31E-06	5.98E-06	1.42E-08	8.05E-07	2.75E-06	3.30E-09
5451	421105.59	3733744.31	9.66E-06	4.42E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
5452	421113.44	3733749.06	9.75E-06	4.46E-05	9.74E-08	1.34E-06	6.10E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09

5453	421121.29	3733753.81	9.84E-06	4.50E-05	9.84E-08	1.35E-06	6.15E-06	1.47E-08	8.28E-07	2.83E-06	3.40E-09
5454	421129.13	3733758.57	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
5455	421136.98	3733763.32	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
5456	421144.83	3733768.08	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
5457	421152.67	3733772.83	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.59E-07	2.93E-06	3.53E-09
5458	421160.52	3733777.59	1.03E-05	4.71E-05	1.03E-07	1.41E-06	6.44E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
5459	421168.37	3733782.34	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
5460	421176.21	3733787.09	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.62E-09
5461	421184.06	3733791.85	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
5462	421191.91	3733796.6	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
5463	421199.75	3733801.36	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
5464	421207.6	3733806.11	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5465	421215.45	3733810.87	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
5466	421270.37	3733844.15	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
5467	421278.22	3733848.9	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.41E-07	3.22E-06	3.87E-09
5468	421289.17	3733862.29	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
5469	421292.26	3733870.93	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
5470	421295.36	3733879.56	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
5471	421298.46	3733888.2	1.19E-05	5.42E-05	1.18E-07	1.62E-06	7.41E-06	1.76E-08	9.97E-07	3.41E-06	4.10E-09
5472	421301.56	3733896.83	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5473	421304.66	3733905.47	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
5474	421307.76	3733914.11	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.70E-06	1.83E-08	1.04E-06	3.54E-06	4.26E-09
5475	421310.85	3733922.74	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.80E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
5476	421326.35	3733965.92	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5477	421329.44	3733974.56	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
5478	421332.54	3733983.19	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
5479	421335.64	3733991.83	1.37E-05	6.24E-05	1.36E-07	1.87E-06	8.54E-06	2.03E-08	1.15E-06	3.92E-06	4.72E-09
5480	421338.74	3734000.46	1.38E-05	6.30E-05	1.38E-07	1.89E-06	8.62E-06	2.05E-08	1.16E-06	3.96E-06	4.77E-09
5481	421341.84	3734009.1	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.71E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
5482	421344.94	3734017.73	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
5483	421348.03	3734026.37	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.91E-09
5484	421351.13	3734035	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
5485	421354.23	3734043.64	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.04E-06	2.15E-08	1.22E-06	4.15E-06	5.00E-09
5486	421357.33	3734052.28	1.46E-05	6.67E-05	1.46E-07	2.00E-06	9.12E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
5487	421360.43	3734060.91	1.47E-05	6.73E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
5488	421363.53	3734069.55	1.49E-05	6.79E-05	1.48E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
5489	421366.63	3734078.18	1.50E-05	6.85E-05	1.50E-07	2.05E-06	9.37E-06	2.23E-08	1.26E-06	4.31E-06	5.18E-09
5490	421369.72	3734086.82	1.51E-05	6.92E-05	1.51E-07	2.07E-06	9.46E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
5491	421372.82	3734095.45	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.29E-06	4.39E-06	5.28E-09
5492	421375.92	3734104.09	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.30E-08	1.30E-06	4.43E-06	5.33E-09
5493	421379.02	3734112.72	1.56E-05	7.12E-05	1.56E-07	2.14E-06	9.74E-06	2.32E-08	1.31E-06	4.48E-06	5.38E-09
5494	421382.12	3734121.36	1.57E-05	7.20E-05	1.57E-07	2.16E-06	9.84E-06	2.34E-08	1.32E-06	4.52E-06	5.44E-09
5495	421385.22	3734130	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
5496	421388.31	3734138.63	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.01E-05	2.39E-08	1.35E-06	4.62E-06	5.56E-09
5497	421391.41	3734147.27	1.63E-05	7.43E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.62E-09
5498	421394.51	3734155.9	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.68E-09
5499	421397.61	3734164.54	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5500	421400.71	3734173.17	1.68E-05	7.70E-05	1.68E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.84E-06	5.82E-09
5501	421403.81	3734181.81	1.71E-05	7.80E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
5502	421406.9	3734190.45	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.97E-06	5.97E-09
5503	421410	3734199.08	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.61E-08	1.47E-06	5.03E-06	6.05E-09
5504	421413.1	3734207.72	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.08E-06	6.10E-09
5505	421416.2	3734216.35	1.78E-05	8.15E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
5506	421419.3	3734224.99	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.23E-09
5507	421422.4	3734233.62	1.83E-05	8.36E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.32E-09
5508	421425.49	3734242.26	1.86E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
5509	421440.99	3734285.44	2.06E-05	9.42E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.73E-06	5.92E-06	7.12E-09
5510	420885.89	3733611.18	7.20E-06	3.29E-05	7.20E-08	9.88E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
5511	420876.85	3733609.31	7.16E-06	3.28E-05	7.16E-08	9.82E-07	4.48E-06	1.07E-08	6.03E-07	2.06E-06	2.48E-09
5512	420867.81	3733607.44	7.12E-06	3.26E-05	7.12E-08	9.76E-07	4.45E-06	1.06E-08	5.99E-07	2.05E-06	2.46E-09

			T2Rev				T3L3				T4			
						1.79E-06				2.44E-07				1.19E-07
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total	Yr 1	Yr 2	Yr 3	Total
1	420751.4	3734207	1.13E-09	5.19E-09	1.13E-11	6.33E-09	1.56E-10	7.09E-10	1.69E-12	8.67E-10	9.55E-11	3.26E-10	3.92E-13	4.22E-10
2	420754.3	3734197	1.05E-09	4.79E-09	1.05E-11	5.84E-09	1.44E-10	6.55E-10	1.56E-12	8.00E-10	8.81E-11	3.01E-10	3.62E-13	3.89E-10
3	420759.9	3734178	8.99E-10	4.11E-09	8.99E-12	5.02E-09	1.23E-10	5.62E-10	1.34E-12	6.87E-10	7.56E-11	2.58E-10	3.11E-13	3.34E-10
4	420771.2	3734139	6.82E-10	3.12E-09	6.81E-12	3.80E-09	9.34E-11	4.26E-10	1.01E-12	5.21E-10	5.73E-11	1.96E-10	2.36E-13	2.53E-10
5	420776.8	3734120	6.01E-10	2.75E-09	6.01E-12	3.35E-09	8.24E-11	3.76E-10	8.94E-13	4.59E-10	5.06E-11	1.73E-10	2.08E-13	2.23E-10
6	420782.5	3734101	5.33E-10	2.44E-09	5.33E-12	2.98E-09	7.31E-11	3.34E-10	7.94E-13	4.07E-10	4.49E-11	1.53E-10	1.84E-13	1.98E-10
7	420788.1	3734082	4.77E-10	2.18E-09	4.77E-12	2.66E-09	6.54E-11	2.98E-10	7.10E-13	3.64E-10	4.01E-11	1.37E-10	1.65E-13	1.77E-10
8	420793.8	3734063	4.29E-10	1.96E-09	4.29E-12	2.39E-09	5.88E-11	2.68E-10	6.38E-13	3.28E-10	3.61E-11	1.23E-10	1.48E-13	1.59E-10
9	420799.4	3734044	3.87E-10	1.77E-09	3.87E-12	2.16E-09	5.31E-11	2.42E-10	5.77E-13	2.96E-10	3.26E-11	1.11E-10	1.34E-13	1.44E-10
10	420805.1	3734024	3.51E-10	1.61E-09	3.51E-12	1.96E-09	4.82E-11	2.20E-10	5.23E-13	2.68E-10	2.96E-11	1.01E-10	1.21E-13	1.31E-10
11	420810.7	3734005	3.20E-10	1.46E-09	3.20E-12	1.79E-09	4.39E-11	2.00E-10	4.77E-13	2.45E-10	2.70E-11	9.21E-11	1.11E-13	1.19E-10
12	420822	3733967	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.69E-11	1.68E-10	4.01E-13	2.06E-10	2.27E-11	7.74E-11	9.31E-14	1.00E-10
13	420844.6	3733890	1.99E-10	9.12E-10	1.99E-12	1.11E-09	2.73E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.89E-14	7.42E-11
14	420855.9	3733852	1.75E-10	7.99E-10	1.75E-12	9.75E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.04E-14	6.50E-11
15	420867.2	3733813	1.55E-10	7.07E-10	1.55E-12	8.63E-10	2.12E-11	9.67E-11	2.30E-13	1.18E-10	1.30E-11	4.44E-11	5.34E-14	5.75E-11
16	420878.5	3733775	1.38E-10	6.32E-10	1.38E-12	7.71E-10	1.89E-11	8.64E-11	2.06E-13	1.06E-10	1.16E-11	3.97E-11	4.78E-14	5.14E-11
17	420889.8	3733737	1.25E-10	5.70E-10	1.25E-12	6.96E-10	1.71E-11	7.80E-11	1.86E-13	9.52E-11	1.05E-11	3.58E-11	4.31E-14	4.64E-11
18	420901.1	3733698	1.13E-10	5.18E-10	1.13E-12	6.32E-10	1.55E-11	7.08E-11	1.69E-13	8.65E-11	9.53E-12	3.26E-11	3.92E-14	4.21E-11
19	420912.4	3733660	1.04E-10	4.74E-10	1.04E-12	5.79E-10	1.42E-11	6.49E-11	1.54E-13	7.92E-11	8.73E-12	2.98E-11	3.58E-14	3.86E-11
20	420923.7	3733621	9.55E-11	4.37E-10	9.55E-13	5.33E-10	1.31E-11	5.97E-11	1.42E-13	7.30E-11	8.04E-12	2.74E-11	3.30E-14	3.55E-11
21	420710.7	3734291	2.63E-09	1.20E-08	2.62E-11	1.47E-08	3.60E-10	1.64E-09	3.91E-12	2.00E-09	2.21E-10	7.54E-10	9.07E-13	9.76E-10
22	420710.7	3734301	3.00E-09	1.37E-08	3.00E-11	1.67E-08	4.11E-10	1.87E-09	4.46E-12	2.29E-09	2.52E-10	8.61E-10	1.04E-12	1.11E-09
23	420710.6	3734331	4.74E-09	2.17E-08	4.74E-11	2.65E-08	6.50E-10	2.96E-09	7.05E-12	3.62E-09	3.99E-10	1.36E-09	1.64E-12	1.76E-09
24	420710.5	3734341	5.67E-09	2.59E-08	5.66E-11	3.16E-08	7.77E-10	3.54E-09	8.44E-12	4.33E-09	4.77E-10	1.63E-09	1.96E-12	2.11E-09
25	420710.5	3734350	6.90E-09	3.16E-08	6.90E-11	3.85E-08	9.46E-10	4.31E-09	1.03E-11	5.27E-09	5.81E-10	1.98E-09	2.38E-12	2.57E-09
26	420700.7	3734301	2.92E-09	1.34E-08	2.92E-11	1.63E-08	4.01E-10	1.83E-09	4.35E-12	2.23E-09	2.46E-10	8.40E-10	1.01E-12	1.09E-09
27	420700.6	3734331	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	6.85E-12	3.51E-09	3.87E-10	1.32E-09	1.59E-12	1.71E-09
28	420700.5	3734341	5.50E-09	2.51E-08	5.49E-11	3.07E-08	7.53E-10	3.44E-09	8.18E-12	4.20E-09	4.62E-10	1.58E-09	1.90E-12	2.04E-09
29	420700.5	3734350	6.68E-09	3.06E-08	6.68E-11	3.73E-08	9.16E-10	4.18E-09	9.95E-12	5.10E-09	5.62E-10	1.92E-09	2.31E-12	2.48E-09
30	420690.7	3734301	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.89E-10	1.78E-09	4.23E-12	2.17E-09	2.39E-10	8.16E-10	9.82E-13	1.06E-09
31	420690.6	3734331	4.45E-09	2.03E-08	4.45E-11	2.48E-08	6.10E-10	2.78E-09	6.62E-12	3.40E-09	3.74E-10	1.28E-09	1.54E-12	1.65E-09
32	420690.5	3734341	5.30E-09	2.42E-08	5.30E-11	2.96E-08	7.26E-10	3.31E-09	7.89E-12	4.05E-09	4.46E-10	1.52E-09	1.83E-12	1.97E-09
33	420690.5	3734350	6.42E-09	2.94E-08	6.42E-11	3.59E-08	8.80E-10	4.02E-09	9.56E-12	4.91E-09	5.40E-10	1.85E-09	2.22E-12	2.39E-09
34	420684.7	3734283	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	3.31E-12	1.70E-09	1.87E-10	6.38E-10	7.68E-13	8.26E-10
35	420705.6	3734258	1.75E-09	7.98E-09	1.74E-11	9.74E-09	2.39E-10	1.09E-09	2.60E-12	1.33E-09	1.47E-10	5.02E-10	6.03E-13	6.49E-10
36	420680.7	3734301	2.76E-09	1.26E-08	2.76E-11	1.54E-08	3.78E-10	1.72E-09	4.10E-12	2.11E-09	2.32E-10	7.92E-10	9.53E-13	1.03E-09
37	420680.6	3734331	4.29E-09	1.96E-08	4.29E-11	2.39E-08	5.88E-10	2.68E-09	6.38E-12	3.27E-09	3.61E-10	1.23E-09	1.48E-12	1.59E-09
38	420680.5	3734341	5.09E-09	2.33E-08	5.09E-11	2.84E-08	6.98E-10	3.18E-09	7.58E-12	3.89E-09	4.28E-10	1.46E-09	1.76E-12	1.89E-09
39	420680.5	3734350	6.14E-09	2.81E-08	6.14E-11	3.43E-08	8.42E-10	3.84E-09	9.14E-12	4.69E-09	5.17E-10	1.76E-09	2.12E-12	2.28E-09
40	420674.7	3734283	2.16E-09	9.88E-09	2.16E-11	1.21E-08	2.96E-10	1.35E-09	3.22E-12	1.65E-09	1.82E-10	6.21E-10	7.47E-13	8.04E-10
41	420699.6	3734250	1.58E-09	7.24E-09	1.58E-11	8.84E-09	2.17E-10	9.90E-10	2.36E-12	1.21E-09	1.33E-10	4.55E-10	5.47E-13	5.89E-10
42	420717.2	3734247	1.59E-09	7.26E-09	1.59E-11	8.86E-09	2.18E-10	9.92E-10	2.36E-12	1.21E-09	1.34E-10	4.56E-10	5.48E-13	5.90E-10
43	420670.7	3734301	2.68E-09	1.22E-08	2.67E-11	1.49E-08	3.67E-10	1.67E-09	3.98E-12	2.04E-09	2.25E-10	7.69E-10	9.24E-13	9.95E-10
44	420670.6	3734331	4.13E-09	1.89E-08	4.13E-11	2.30E-08	5.66E-10	2.58E-09	6.15E-12	3.15E-09	3.47E-10	1.19E-09	1.43E-12	1.54E-09
45	420670.5	3734340	4.88E-09	2.23E-08	4.88E-11	2.73E-08	6.69E-10	3.05E-09	7.27E-12	3.73E-09	4.11E-10	1.40E-09	1.69E-12	1.82E-09
46	420670.5	3734350	5.86E-09	2.68E-08	5.85E-11	3.27E-08	8.03E-10	3.66E-09	8.72E-12	4.47E-09	4.93E-10	1.68E-09	2.02E-12	2.18E-09
47	420664.7	3734283	2.10E-09	9.62E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	3.13E-12	1.61E-09	1.77E-10	6.04E-10	7.27E-13	7.82E-10
48	420680.8	3734251	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.11E-10	9.64E-10	2.30E-12	1.18E-09	1.30E-10	4.43E-10	5.33E-13	5.73E-10
49	420693.7	3734242	1.44E-09	6.59E-09	1.44E-11	8.05E-09	1.98E-10	9.01E-10	2.15E-12	1.10E-09	1.21E-10	4.14E-10	4.98E-13	5.36E-10
50	420711.3	3734239	1.45E-09	6.62E-09	1.45E-11	8.09E-09	1.99E-10	9.06E-10	2.16E-12	1.11E-09	1.22E-10	4.16E-10	5.01E-13	5.39E-10
51	420728.9	3734235	1.45E-09	6.61E-09	1.45E-11	8.07E-09	1.98E-10	9.04E-10	2.15E-12	1.10E-09	1.22E-10	4.15E-10	5.00E-13	5.38E-10
52	420660.7	3734301	2.60E-09	1.19E-08	2.59E-11	1.45E-08	3.56E-10	1.62E-09	3.86E-12	1.98E-09	2.18E-10	7.46E-10	8.97E-13	9.65E-10
53	420660.6	3734331	3.98E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.49E-09	5.92E-12	3.04E-09	3.34E-10	1.14E-09	1.37E-12	1.48E-09
54	420660.5	3734340	4.68E-09	2.14E-08	4.68E-11	2.61E-08	6.41E-10	2.93E-09	6.96E-12	3.57E-09	3.94E-10	1.34E-09	1.62E-12	1.74E-09
55	420660.5	3734350	5.57E-09	2.55E-08	5.57E-11	3.11E-08	7.64E-10	3.48E-09	8.30E-12	4.26E-09	4.69E-10	1.60E-09	1.93E-12	2.07E-09
56	420654.7	3734283	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	3.05E-12	1.56E-09	1.72E-10	5.89E-10	7.08E-13	7.62E-10
57	420670.8	3734251	1.51E-09	6.88E-09	1.50E-11	8.41E-09	2.06E-10	9.41E-10	2.24E-12	1.15E-09	1.27E-10	4.33E-10	5.20E-13	5.60E-10
58	420687.7	3734234	1.32E-09	6.02E-09	1.32E-11	7.35E-09	1.80E-10	8.23E-10	1.96E-12	1.01E-09	1.11E-10	3.78E-10	4.55E-13	4.90E-10
59	420705.3	3734231	1.33E-09	6.06E-09	1.32E-11	7.40E-09	1.82E-10	8.29E-10	1.97E-12	1.01E-09	1.11E-10	3.81E-10	4.58E-13	4.93E-10
60	420722.9	3734227	1.33E-09	6.07E-09	1.33E-11	7.41E-09	1.82E-10	8.29E-10	1.97E-12	1.01E-09	1.12E-10	3.81E-10	4.58E-13	4.93E-10
61	420650.7	3734301	2.52E-09	1.15E-08	2.52E-11	1.41E-08	3.46E-10	1.58E-09	3.76E-12	1.93E-09	2.12E-10	7.25E-10	8.72E-13	9.38E-10
62	420650.6	3734331	3.83E-09	1.75E-08	3.82E-11	2.14E-08	5.24E-10	2.39E-09	5.70E-12	2.92E-09	3.22E-10	1.10E-09	1.32E-12	1.42E-09
63	420650.5	3734340	4.48E-09	2.05E-08	4.47E-11	2.50E-08	6.14E-10	2.80E-09	6.66E-12	3.42E-09	3.77E-10	1.29E-09	1.55E-12	1.66E-09
64	420650.5	3734350	5.29E-09	2.42E-08	5.29E-11	2.95E-08	7.25E-10	3.31E-09	7.88E-12	4.04E-09	4.45E-10	1.52E-09	1.83E-12	1.97E-09
65	420644.7	3734283	2.00E-09	9.13E-09	2.00E-11	1.11E-08	2.74E-10	1.25E-09	2.97E-12	1.53E-09	1.68E-10	5.74E-10	6.90E-13	7.43E-10
66	420660.8	3734251	1.47E-09	6.72E-09	1.47E-11	8.21E-09	2.02E-10	9.19E-10	2.19E-12	1.12E-09	1.24E-10	4.23E-10	5.08E-13	5.47E-10
67	420668.9	3734235	1.28E-09	5.86E-09	1.28E-11	7.16E-09	1.76E-10	8.02E-10	1.91E-12	9.79E-10	1.08E-10	3.68E-10	4.43E-13	4.77E-10
68	420681.7	3734226	1.21E-09	5.52E-09	1.21E-11	6.73E-09	1.65E-10	7.54E-10	1.80E-12	9.21E-10	1.02E-10	3.47E-10	4.17E-13	4.49E-10
69	420699.3	3734222	1.22E-09	5.56E-09	1.21E-11	6.79E-09	1.67E-10	7.60E-10	1.81E-12	9.28E-10	1.02E-10	3.49E-10	4.20E-13	4.52E-10

70	420716.9	3734219	1.22E-09	5.58E-09	1.22E-11	6.81E-09	1.67E-10	7.63E-10	1.82E-12	9.32E-10	1.03E-10	3.51E-10	4.22E-13	4.54E-10
71	420734.5	3734216	1.22E-09	5.56E-09	1.22E-11	6.79E-09	1.67E-10	7.60E-10	1.81E-12	9.28E-10	1.02E-10	3.49E-10	4.20E-13	4.52E-10
72	420640.7	3734301	2.45E-09	1.12E-08	2.45E-11	1.37E-08	3.36E-10	1.53E-09	3.65E-12	1.87E-09	2.06E-10	7.05E-10	8.47E-13	9.12E-10
73	420640.6	3734330	3.68E-09	1.68E-08	3.67E-11	2.05E-08	5.04E-10	2.30E-09	5.47E-12	2.81E-09	3.09E-10	1.06E-09	1.27E-12	1.37E-09
74	420640.5	3734340	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.86E-10	2.67E-09	6.36E-12	3.26E-09	3.59E-10	1.23E-09	1.48E-12	1.59E-09
75	420640.5	3734350	5.00E-09	2.29E-08	5.00E-11	2.79E-08	6.86E-10	3.13E-09	7.45E-12	3.82E-09	4.21E-10	1.44E-09	1.73E-12	1.86E-09
76	420650.8	3734251	1.44E-09	6.57E-09	1.44E-11	8.02E-09	1.97E-10	8.99E-10	2.14E-12	1.10E-09	1.21E-10	4.13E-10	4.97E-13	5.34E-10
77	420658.9	3734235	1.25E-09	5.73E-09	1.25E-11	7.00E-09	1.72E-10	7.84E-10	1.87E-12	9.58E-10	1.06E-10	3.60E-10	4.33E-13	4.66E-10
78	420675.7	3734218	1.11E-09	5.07E-09	1.11E-11	6.19E-09	1.52E-10	6.93E-10	1.65E-12	8.47E-10	9.33E-11	3.19E-10	3.83E-13	4.12E-10
79	420693.3	3734214	1.12E-09	5.11E-09	1.12E-11	6.24E-09	1.53E-10	6.99E-10	1.66E-12	8.54E-10	9.40E-11	3.21E-10	3.86E-13	4.16E-10
80	420710.9	3734211	1.12E-09	5.14E-09	1.12E-11	6.27E-09	1.54E-10	7.03E-10	1.67E-12	8.58E-10	9.46E-11	3.23E-10	3.88E-13	4.18E-10
81	420728.5	3734208	1.12E-09	5.14E-09	1.12E-11	6.27E-09	1.54E-10	7.02E-10	1.67E-12	8.58E-10	9.45E-11	3.23E-10	3.88E-13	4.18E-10
82	420640.8	3734251	1.41E-09	6.43E-09	1.41E-11	7.85E-09	1.93E-10	8.79E-10	2.09E-12	1.07E-09	1.18E-10	4.04E-10	4.86E-13	5.23E-10
83	420648.9	3734235	1.23E-09	5.61E-09	1.23E-11	6.85E-09	1.68E-10	7.67E-10	1.83E-12	9.37E-10	1.03E-10	3.53E-10	4.24E-13	4.56E-10
84	420657	3734219	1.08E-09	4.94E-09	1.08E-11	6.04E-09	1.48E-10	6.76E-10	1.61E-12	8.26E-10	9.10E-11	3.11E-10	3.74E-13	4.02E-10
85	420669.8	3734210	1.02E-09	4.67E-09	1.02E-11	5.71E-09	1.40E-10	6.39E-10	1.52E-12	7.81E-10	8.60E-11	2.94E-10	3.53E-13	3.80E-10
86	420687.4	3734206	1.03E-09	4.71E-09	1.03E-11	5.75E-09	1.41E-10	6.45E-10	1.53E-12	7.87E-10	8.67E-11	2.96E-10	3.56E-13	3.83E-10
87	420705	3734203	1.04E-09	4.74E-09	1.04E-11	5.79E-09	1.42E-10	6.49E-10	1.54E-12	7.93E-10	8.73E-11	2.98E-10	3.59E-13	3.86E-10
88	420722.6	3734200	1.04E-09	4.75E-09	1.04E-11	5.80E-09	1.42E-10	6.50E-10	1.55E-12	7.94E-10	8.74E-11	2.99E-10	3.59E-13	3.86E-10
89	420635.9	3734221	1.06E-09	4.83E-09	1.06E-11	5.90E-09	1.45E-10	6.61E-10	1.57E-12	8.07E-10	8.89E-11	3.04E-10	3.65E-13	3.93E-10
90	420640.2	3734213	9.89E-10	4.52E-09	9.88E-12	5.52E-09	1.36E-10	6.18E-10	1.47E-12	7.55E-10	8.32E-11	2.84E-10	3.42E-13	3.68E-10
91	420644.6	3734204	9.28E-10	4.24E-09	9.27E-12	5.18E-09	1.27E-10	5.80E-10	1.38E-12	7.09E-10	7.80E-11	2.67E-10	3.21E-13	3.45E-10
92	420658.6	3734193	8.76E-10	4.01E-09	8.76E-12	4.89E-09	1.20E-10	5.48E-10	1.30E-12	6.69E-10	7.37E-11	2.52E-10	3.03E-13	3.26E-10
93	420668.2	3734192	8.80E-10	4.02E-09	8.80E-12	4.91E-09	1.21E-10	5.50E-10	1.31E-12	6.72E-10	7.41E-11	2.53E-10	3.04E-13	3.27E-10
94	420677.8	3734190	8.85E-10	4.04E-09	8.84E-12	4.94E-09	1.21E-10	5.53E-10	1.32E-12	6.76E-10	7.44E-11	2.54E-10	3.06E-13	3.29E-10
95	420687.4	3734188	8.88E-10	4.06E-09	8.88E-12	4.96E-09	1.22E-10	5.55E-10	1.32E-12	6.79E-10	7.47E-11	2.55E-10	3.07E-13	3.30E-10
96	420697	3734187	8.92E-10	4.08E-09	8.91E-12	4.98E-09	1.22E-10	5.58E-10	1.33E-12	6.81E-10	7.50E-11	2.56E-10	3.08E-13	3.32E-10
97	420706.6	3734185	8.94E-10	4.09E-09	8.94E-12	4.99E-09	1.23E-10	5.59E-10	1.33E-12	6.83E-10	7.52E-11	2.57E-10	3.09E-13	3.33E-10
98	420716.2	3734183	8.95E-10	4.09E-09	8.95E-12	5.00E-09	1.23E-10	5.60E-10	1.33E-12	6.84E-10	7.53E-11	2.57E-10	3.09E-13	3.33E-10
99	420725.8	3734181	8.95E-10	4.09E-09	8.95E-12	5.00E-09	1.23E-10	5.60E-10	1.33E-12	6.84E-10	7.53E-11	2.57E-10	3.09E-13	3.33E-10
100	420735.4	3734180	8.94E-10	4.09E-09	8.93E-12	4.99E-09	1.22E-10	5.59E-10	1.33E-12	6.82E-10	7.52E-11	2.57E-10	3.09E-13	3.32E-10
101	420600.7	3734291	1.94E-09	8.88E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	2.89E-12	1.48E-09	1.63E-10	5.58E-10	6.71E-13	7.22E-10
102	420600.7	3734301	2.16E-09	9.90E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	3.22E-12	1.65E-09	1.82E-10	6.22E-10	7.48E-13	8.05E-10
103	420600.6	3734311	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	3.60E-12	1.85E-09	2.03E-10	6.95E-10	8.36E-13	8.99E-10
104	420600.6	3734320	2.71E-09	1.24E-08	2.71E-11	1.51E-08	3.71E-10	1.69E-09	4.03E-12	2.07E-09	2.28E-10	7.78E-10	9.35E-13	1.01E-09
105	420600.6	3734330	3.03E-09	1.39E-08	3.03E-11	1.69E-08	4.16E-10	1.90E-09	4.52E-12	2.32E-09	2.55E-10	8.72E-10	1.05E-12	1.13E-09
106	420600.5	3734340	3.40E-09	1.56E-08	3.40E-11	1.90E-08	4.66E-10	2.13E-09	5.07E-12	2.60E-09	2.86E-10	9.78E-10	1.18E-12	1.27E-09
107	420600.5	3734350	3.81E-09	1.74E-08	3.81E-11	2.13E-08	5.23E-10	2.38E-09	5.68E-12	2.91E-09	3.21E-10	1.10E-09	1.32E-12	1.42E-09
108	420602.4	3734248	1.26E-09	5.76E-09	1.26E-11	7.03E-09	1.73E-10	7.87E-10	1.87E-12	9.62E-10	1.06E-10	3.62E-10	4.35E-13	4.68E-10
109	420606.7	3734239	1.17E-09	5.37E-09	1.17E-11	6.56E-09	1.61E-10	7.35E-10	1.75E-12	8.97E-10	9.89E-11	3.38E-10	4.06E-13	4.37E-10
110	420646.6	3734177	7.58E-10	3.47E-09	7.57E-12	4.23E-09	1.04E-10	4.74E-10	1.13E-12	5.79E-10	6.38E-11	2.18E-10	2.62E-13	2.82E-10
111	420656	3734176	7.61E-10	3.48E-09	7.61E-12	4.25E-09	1.04E-10	4.76E-10	1.13E-12	5.81E-10	6.40E-11	2.19E-10	2.63E-13	2.83E-10
112	420665.5	3734174	7.65E-10	3.50E-09	7.64E-12	4.27E-09	1.05E-10	4.78E-10	1.14E-12	5.84E-10	6.43E-11	2.20E-10	2.64E-13	2.84E-10
113	420675	3734172	7.68E-10	3.51E-09	7.68E-12	4.29E-09	1.05E-10	4.80E-10	1.14E-12	5.87E-10	6.46E-11	2.21E-10	2.65E-13	2.86E-10
114	420684.5	3734171	7.72E-10	3.53E-09	7.71E-12	4.31E-09	1.06E-10	4.82E-10	1.15E-12	5.89E-10	6.49E-11	2.22E-10	2.67E-13	2.87E-10
115	420580.7	3734291	1.81E-09	8.29E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	2.70E-12	1.38E-09	1.52E-10	5.21E-10	6.26E-13	6.74E-10
116	420580.7	3734301	2.00E-09	9.16E-09	2.00E-11	1.12E-08	2.75E-10	1.25E-09	2.98E-12	1.53E-09	1.69E-10	5.76E-10	6.93E-13	7.45E-10
117	420580.6	3734311	2.21E-09	1.01E-08	2.21E-11	1.24E-08	3.03E-10	1.38E-09	3.29E-12	1.69E-09	1.86E-10	6.36E-10	7.65E-13	8.23E-10
118	420580.6	3734320	2.44E-09	1.12E-08	2.44E-11	1.36E-08	3.35E-10	1.53E-09	3.64E-12	1.87E-09	2.05E-10	7.02E-10	8.44E-13	9.08E-10
119	420580.6	3734330	2.69E-09	1.23E-08	2.69E-11	1.50E-08	3.69E-10	1.68E-09	4.01E-12	2.06E-09	2.27E-10	7.74E-10	9.31E-13	1.00E-09
120	420580.5	3734340	2.96E-09	1.36E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	4.41E-12	2.26E-09	2.49E-10	8.52E-10	1.02E-12	1.10E-09
121	420580.5	3734350	3.25E-09	1.49E-08	3.25E-11	1.82E-08	4.46E-10	2.03E-09	4.84E-12	2.48E-09	2.74E-10	9.35E-10	1.12E-12	1.21E-09
122	420582.2	3734248	1.21E-09	5.53E-09	1.21E-11	6.75E-09	1.66E-10	7.56E-10	1.80E-12	9.23E-10	1.02E-10	3.47E-10	4.18E-13	4.49E-10
123	420586.5	3734240	1.13E-09	5.18E-09	1.13E-11	6.32E-09	1.55E-10	7.08E-10	1.69E-12	8.65E-10	9.52E-11	3.25E-10	3.91E-13	4.21E-10
124	420590.8	3734231	1.06E-09	4.86E-09	1.06E-11	5.93E-09	1.46E-10	6.64E-10	1.58E-12	8.12E-10	8.94E-11	3.05E-10	3.67E-13	3.95E-10
125	420595.1	3734223	9.96E-10	4.55E-09	9.95E-12	5.56E-09	1.37E-10	6.23E-10	1.48E-12	7.61E-10	8.38E-11	2.86E-10	3.44E-13	3.70E-10
126	420599.4	3734214	9.34E-10	4.27E-09	9.34E-12	5.21E-09	1.28E-10	5.84E-10	1.39E-12	7.13E-10	7.86E-11	2.68E-10	3.23E-13	3.47E-10
127	420603.7	3734206	8.78E-10	4.02E-09	8.78E-12	4.90E-09	1.20E-10	5.49E-10	1.31E-12	6.71E-10	7.39E-11	2.52E-10	3.04E-13	3.27E-10
128	420608	3734197	8.27E-10	3.78E-09	8.26E-12	4.62E-09	1.13E-10	5.17E-10	1.23E-12	6.32E-10	6.96E-11	2.38E-10	2.86E-13	3.07E-10
129	420700.2	3734150	6.80E-10	3.11E-09	6.80E-12	3.80E-09	9.33E-11	4.25E-10	1.01E-12	5.20E-10	5.72E-11	1.96E-10	2.35E-13	2.53E-10
130	420709.6	3734148	6.82E-10	3.12E-09	6.82E-12	3.81E-09	9.35E-11	4.26E-10	1.02E-12	5.21E-10	5.74E-11	1.96E-10	2.36E-13	2.54E-10
131	420719	3734146	6.83E-10	3.12E-09	6.83E-12	3.81E-09	9.36E-11	4.27E-10	1.02E-12	5.22E-10	5.75E-11	1.96E-10	2.36E-13	2.54E-10
132	420728.4	3734145	6.83E-10	3.12E-09	6.82E-12	3.81E-09	9.36E-11	4.27E-10	1.02E-12	5.21E-10	5.74E-11	1.96E-10	2.36E-13	2.54E-10
133	420737.7	3734143	6.82E-10	3.12E-09	6.81E-12	3.81E-09	9.34E-11	4.26E-10	1.01E-12	5.21E-10	5.74E-11	1.96E-10	2.36E-13	2.53E-10
134	420756.5	3734140	6.76E-10	3.09E-09	6.76E-12	3.78E-09	9.27E-11	4.23E-10	1.01E-12	5.17E-10	5.69E-11	1.94E-10	2.34E-13	2.52E-10
135	420560.7	3734291	1.67E-09	7.63E-09	1.67E-11	9.32E-09	2.29E-10	1.04E-09	2.49E-12	1.27E-09	1.40E-10	4.80E-10	5.77E-13	6.21E-10
136	420560.7	3734301	1.83E-09	8.38E-09	1.83E-11	1.02E-08	2.51E-10	1.15E-09	2.73E-12	1.40E-09	1.54E-10	5.27E-10	6.34E-13	6.82E-10
137	420560.6	3734310	2.00E-09	9.14E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	2.98E-12	1.53E-09	1.68E-10	5.75E-10	6.91E-13	7.44E-10
138	420560.6	3734320	2.18E-09	9.95E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	3.24E-12	1.66E-09	1.83E-10	6.25E-10	7.52E-13	8.09E-10
139	420560.6	3734330	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.24E-10	1.48E-09	3.52E-12	1.80E-09	1.99E-10	6.79E-10	8.16E-13	8.78E-10
140	420560.5	3734340	2.55E-09	1.17E-08	2.55E-11	1.43E-08	3.50E-10	1.60E-09	3.80E-12	1.95E-09	2.15E-10	7.34E-10	8.83E-13	9.50E-10
141	420560.5	3734350	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	4.10E-12	2.10E-09	2.31E-10	7.91E-10	9.51E-13	1.02E-09
142	420562	3734248	1.15E-09	5.27E-09	1.15E-11	6.44E-09	1.58E-10	7.21E-10	1.72E-12	8.81E-10	9.71E-11	3.32E-10	3.99E-13	4.29E-10

143	420566.3	3734240	1.09E-09	4.98E-09	1.09E-11	6.08E-09	1.49E-10	6.81E-10	1.62E-12	8.31E-10	9.16E-11	3.13E-10	3.76E-13	4.05E-10
144	420570.6	3734232	1.02E-09	4.68E-09	1.02E-11	5.71E-09	1.40E-10	6.40E-10	1.52E-12	7.82E-10	8.61E-11	2.94E-10	3.54E-13	3.81E-10
145	420574.8	3734223	9.63E-10	4.40E-09	9.62E-12	5.37E-09	1.32E-10	6.02E-10	1.43E-12	7.35E-10	8.10E-11	2.77E-10	3.33E-13	3.58E-10
146	420579.1	3734215	9.10E-10	4.16E-09	9.09E-12	5.08E-09	1.25E-10	5.69E-10	1.35E-12	6.95E-10	7.65E-11	2.61E-10	3.14E-13	3.38E-10
147	420583.3	3734206	8.56E-10	3.92E-09	8.56E-12	4.78E-09	1.17E-10	5.35E-10	1.27E-12	6.54E-10	7.20E-11	2.46E-10	2.96E-13	3.18E-10
148	420587.6	3734198	8.07E-10	3.69E-09	8.07E-12	4.50E-09	1.11E-10	5.05E-10	1.20E-12	6.16E-10	6.79E-11	2.32E-10	2.79E-13	3.00E-10
149	420591.9	3734189	7.61E-10	3.48E-09	7.61E-12	4.25E-09	1.04E-10	4.76E-10	1.13E-12	5.82E-10	6.41E-11	2.19E-10	2.63E-13	2.83E-10
150	420596.1	3734181	7.19E-10	3.29E-09	7.19E-12	4.01E-09	9.86E-11	4.50E-10	1.07E-12	5.49E-10	6.05E-11	2.07E-10	2.49E-13	2.67E-10
151	420600.4	3734172	6.80E-10	3.11E-09	6.80E-12	3.80E-09	9.32E-11	4.25E-10	1.01E-12	5.20E-10	5.72E-11	1.95E-10	2.35E-13	2.53E-10
152	420631.8	3734144	5.84E-10	2.67E-09	5.84E-12	3.26E-09	8.00E-11	3.65E-10	8.69E-13	4.46E-10	4.91E-11	1.68E-10	2.02E-13	2.17E-10
153	420641.1	3734142	5.86E-10	2.68E-09	5.86E-12	3.27E-09	8.03E-11	3.66E-10	8.72E-13	4.47E-10	4.93E-11	1.68E-10	2.02E-13	2.18E-10
154	420650.4	3734140	5.88E-10	2.69E-09	5.88E-12	3.28E-09	8.06E-11	3.68E-10	8.76E-13	4.49E-10	4.95E-11	1.69E-10	2.03E-13	2.19E-10
155	420659.8	3734139	5.91E-10	2.70E-09	5.90E-12	3.30E-09	8.10E-11	3.69E-10	8.79E-13	4.51E-10	4.97E-11	1.70E-10	2.04E-13	2.20E-10
156	420669.1	3734137	5.93E-10	2.71E-09	5.93E-12	3.31E-09	8.13E-11	3.71E-10	8.83E-13	4.53E-10	4.99E-11	1.70E-10	2.05E-13	2.21E-10
157	420678.4	3734135	5.96E-10	2.72E-09	5.96E-12	3.33E-09	8.17E-11	3.73E-10	8.87E-13	4.55E-10	5.01E-11	1.71E-10	2.06E-13	2.22E-10
158	420687.7	3734134	5.98E-10	2.73E-09	5.98E-12	3.34E-09	8.20E-11	3.74E-10	8.90E-13	4.57E-10	5.03E-11	1.72E-10	2.07E-13	2.22E-10
159	420697	3734132	6.00E-10	2.74E-09	6.00E-12	3.35E-09	8.23E-11	3.75E-10	8.94E-13	4.58E-10	5.05E-11	1.72E-10	2.07E-13	2.23E-10
160	420706.3	3734130	6.02E-10	2.75E-09	6.02E-12	3.36E-09	8.25E-11	3.76E-10	8.96E-13	4.60E-10	5.06E-11	1.73E-10	2.08E-13	2.24E-10
161	420715.7	3734129	6.03E-10	2.76E-09	6.03E-12	3.37E-09	8.27E-11	3.77E-10	8.98E-13	4.61E-10	5.07E-11	1.73E-10	2.08E-13	2.24E-10
162	420725	3734127	6.03E-10	2.76E-09	6.03E-12	3.37E-09	8.27E-11	3.77E-10	8.98E-13	4.61E-10	5.08E-11	1.73E-10	2.09E-13	2.24E-10
163	420734.3	3734125	6.03E-10	2.76E-09	6.03E-12	3.37E-09	8.26E-11	3.77E-10	8.97E-13	4.60E-10	5.07E-11	1.73E-10	2.08E-13	2.24E-10
164	420762.2	3734120	5.97E-10	2.73E-09	5.97E-12	3.33E-09	8.18E-11	3.73E-10	8.89E-13	4.56E-10	5.02E-11	1.72E-10	2.06E-13	2.22E-10
165	420540.7	3734291	1.53E-09	7.01E-09	1.53E-11	8.56E-09	2.10E-10	9.58E-10	2.28E-12	1.17E-09	1.29E-10	4.40E-10	5.30E-13	5.70E-10
166	420540.7	3734301	1.66E-09	7.60E-09	1.66E-11	9.27E-09	2.28E-10	1.04E-09	2.47E-12	1.27E-09	1.40E-10	4.77E-10	5.74E-13	6.18E-10
167	420540.6	3734310	1.79E-09	8.18E-09	1.79E-11	9.99E-09	2.45E-10	1.12E-09	2.66E-12	1.37E-09	1.50E-10	5.14E-10	6.18E-13	6.65E-10
168	420540.6	3734320	1.92E-09	8.78E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	2.86E-12	1.47E-09	1.62E-10	5.52E-10	6.63E-13	7.14E-10
169	420540.6	3734330	2.05E-09	9.39E-09	2.05E-11	1.15E-08	2.82E-10	1.28E-09	3.06E-12	1.57E-09	1.73E-10	5.90E-10	7.10E-13	7.64E-10
170	420540.5	3734340	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	3.26E-12	1.67E-09	1.84E-10	6.29E-10	7.56E-13	8.13E-10
171	420540.5	3734350	2.32E-09	1.06E-08	2.32E-11	1.29E-08	3.18E-10	1.45E-09	3.45E-12	1.77E-09	1.95E-10	6.66E-10	8.01E-13	8.62E-10
172	420541.9	3734249	1.09E-09	4.97E-09	1.09E-11	6.07E-09	1.49E-10	6.80E-10	1.62E-12	8.30E-10	9.15E-11	3.12E-10	3.76E-13	4.04E-10
173	420546.1	3734240	1.04E-09	4.74E-09	1.04E-11	5.79E-09	1.42E-10	6.48E-10	1.54E-12	7.92E-10	8.73E-11	2.98E-10	3.58E-13	3.86E-10
174	420550.4	3734232	9.87E-10	4.51E-09	9.86E-12	5.51E-09	1.35E-10	6.17E-10	1.47E-12	7.54E-10	8.30E-11	2.83E-10	3.41E-13	3.67E-10
175	420554.6	3734223	9.36E-10	4.28E-09	9.36E-12	5.23E-09	1.28E-10	5.85E-10	1.39E-12	7.15E-10	7.88E-11	2.69E-10	3.23E-13	3.48E-10
176	420558.9	3734215	8.85E-10	4.04E-09	8.84E-12	4.94E-09	1.21E-10	5.53E-10	1.32E-12	6.76E-10	7.44E-11	2.54E-10	3.06E-13	3.29E-10
177	420563.1	3734207	8.35E-10	3.82E-09	8.34E-12	4.66E-09	1.14E-10	5.22E-10	1.24E-12	6.37E-10	7.02E-11	2.40E-10	2.88E-13	3.10E-10
178	420567.3	3734198	7.88E-10	3.60E-09	7.87E-12	4.40E-09	1.08E-10	4.93E-10	1.17E-12	6.02E-10	6.63E-11	2.26E-10	2.72E-13	2.93E-10
179	420571.6	3734190	7.44E-10	3.40E-09	7.44E-12	4.15E-09	1.02E-10	4.65E-10	1.11E-12	5.68E-10	6.26E-11	2.14E-10	2.57E-13	2.77E-10
180	420575.8	3734181	7.04E-10	3.22E-09	7.03E-12	3.93E-09	9.65E-11	4.40E-10	1.05E-12	5.37E-10	5.92E-11	2.02E-10	2.43E-13	2.62E-10
181	420580	3734173	6.66E-10	3.04E-09	6.66E-12	3.72E-09	9.13E-11	4.16E-10	9.91E-13	5.09E-10	5.60E-11	1.91E-10	2.30E-13	2.48E-10
182	420592.8	3734148	5.69E-10	2.60E-09	5.68E-12	3.17E-09	7.80E-11	3.56E-10	8.47E-13	4.34E-10	4.78E-11	1.63E-10	1.97E-13	2.11E-10
183	420597	3734139	5.41E-10	2.47E-09	5.41E-12	3.02E-09	7.42E-11	3.38E-10	8.05E-13	4.13E-10	4.55E-11	1.55E-10	1.87E-13	2.01E-10
184	420610.5	3734129	5.16E-10	2.36E-09	5.16E-12	2.88E-09	7.07E-11	3.23E-10	7.68E-13	3.94E-10	4.34E-11	1.48E-10	1.78E-13	1.92E-10
185	420638.3	3734124	5.20E-10	2.38E-09	5.20E-12	2.90E-09	7.13E-11	3.25E-10	7.75E-13	3.97E-10	4.38E-11	1.50E-10	1.80E-13	1.93E-10
186	420647.5	3734123	5.22E-10	2.39E-09	5.22E-12	2.92E-09	7.16E-11	3.27E-10	7.78E-13	3.99E-10	4.40E-11	1.50E-10	1.81E-13	1.94E-10
187	420656.8	3734121	5.25E-10	2.40E-09	5.24E-12	2.93E-09	7.19E-11	3.28E-10	7.81E-13	4.01E-10	4.41E-11	1.51E-10	1.81E-13	1.95E-10
188	420666.1	3734119	5.27E-10	2.41E-09	5.27E-12	2.94E-09	7.23E-11	3.30E-10	7.85E-13	4.03E-10	4.43E-11	1.51E-10	1.82E-13	1.96E-10
189	420675.3	3734118	5.29E-10	2.42E-09	5.29E-12	2.95E-09	7.26E-11	3.31E-10	7.88E-13	4.04E-10	4.45E-11	1.52E-10	1.83E-13	1.97E-10
190	420684.6	3734116	5.31E-10	2.43E-09	5.31E-12	2.97E-09	7.28E-11	3.32E-10	7.91E-13	4.06E-10	4.47E-11	1.53E-10	1.84E-13	1.98E-10
191	420693.8	3734114	5.33E-10	2.44E-09	5.33E-12	2.98E-09	7.31E-11	3.33E-10	7.94E-13	4.07E-10	4.49E-11	1.53E-10	1.84E-13	1.98E-10
192	420703.1	3734113	5.35E-10	2.45E-09	5.35E-12	2.99E-09	7.33E-11	3.34E-10	7.96E-13	4.08E-10	4.50E-11	1.54E-10	1.85E-13	1.99E-10
193	420712.4	3734111	5.36E-10	2.45E-09	5.36E-12	2.99E-09	7.35E-11	3.35E-10	7.98E-13	4.09E-10	4.51E-11	1.54E-10	1.85E-13	1.99E-10
194	420721.6	3734109	5.37E-10	2.45E-09	5.36E-12	2.99E-09	7.35E-11	3.35E-10	7.99E-13	4.10E-10	4.51E-11	1.54E-10	1.85E-13	1.99E-10
195	420730.9	3734108	5.37E-10	2.45E-09	5.36E-12	3.00E-09	7.36E-11	3.35E-10	7.99E-13	4.10E-10	4.51E-11	1.54E-10	1.85E-13	2.00E-10
196	420758.7	3734103	5.33E-10	2.44E-09	5.33E-12	2.98E-09	7.31E-11	3.33E-10	7.93E-13	4.07E-10	4.48E-11	1.53E-10	1.84E-13	1.98E-10
197	420767.9	3734101	5.30E-10	2.43E-09	5.30E-12	2.96E-09	7.27E-11	3.32E-10	7.90E-13	4.05E-10	4.46E-11	1.52E-10	1.83E-13	1.97E-10
198	420520.7	3734291	1.40E-09	6.40E-09	1.40E-11	7.82E-09	1.92E-10	8.76E-10	2.09E-12	1.07E-09	1.18E-10	4.02E-10	4.84E-13	5.21E-10
199	420520.7	3734300	1.49E-09	6.83E-09	1.49E-11	8.34E-09	2.05E-10	9.34E-10	2.22E-12	1.14E-09	1.26E-10	4.29E-10	5.16E-13	5.55E-10
200	420520.6	3734310	1.59E-09	7.27E-09	1.59E-11	8.87E-09	2.18E-10	9.94E-10	2.37E-12	1.21E-09	1.34E-10	4.57E-10	5.49E-13	5.91E-10
201	420520.6	3734320	1.68E-09	7.70E-09	1.68E-11	9.40E-09	2.31E-10	1.05E-09	2.51E-12	1.29E-09	1.42E-10	4.84E-10	5.82E-13	6.26E-10
202	420520.6	3734330	1.78E-09	8.13E-09	1.78E-11	9.92E-09	2.44E-10	1.11E-09	2.65E-12	1.36E-09	1.50E-10	5.11E-10	6.14E-13	6.61E-10
203	420520.5	3734340	1.87E-09	8.54E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.37E-10	6.45E-13	6.94E-10
204	420520.5	3734350	1.95E-09	8.93E-09	1.95E-11	1.09E-08	2.68E-10	1.22E-09	2.91E-12	1.49E-09	1.64E-10	5.61E-10	6.75E-13	7.26E-10
205	420522.9	3734247	1.03E-09	4.71E-09	1.03E-11	5.74E-09	1.41E-10	6.43E-10	1.53E-12	7.86E-10	8.66E-11	2.96E-10	3.56E-13	3.83E-10
206	420527.3	3734238	9.81E-10	4.49E-09	9.81E-12	5.48E-09	1.35E-10	6.14E-10	1.46E-12	7.50E-10	8.26E-11	2.82E-10	3.39E-13	3.65E-10
207	420531.7	3734229	9.35E-10	4.28E-09	9.35E-12	5.22E-09	1.28E-10	5.85E-10	1.39E-12	7.14E-10	7.87E-11	2.69E-10	3.23E-13	3.48E-10
208	420536.1	3734220	8.85E-10	4.05E-09	8.85E-12	4.94E-09	1.21E-10	5.53E-10	1.32E-12	6.76E-10	7.45E-11	2.54E-10	3.06E-13	3.29E-10
209	420540.6	3734211	8.36E-10	3.82E-09	8.36E-12	4.67E-09	1.15E-10	5.23E-10	1.25E-12	6.39E-10	7.04E-11	2.40E-10	2.89E-13	3.11E-10
210	420545	3734203	7.90E-10	3.61E-09	7.89E-12	4.41E-09	1.08E-10	4.94E-10	1.18E-12	6.03E-10	6.64E-11	2.27E-10	2.73E-13	2.94E-10
211	420549.4	3734194	7.46E-10	3.41E-09	7.45E-12	4.16E-09	1.02E-10	4.66E-10	1.11E-12	5.69E-10	6.27E-11	2.14E-10	2.58E-13	2.77E-10
212	420553.9	3734185	7.04E-10	3.22E-09	7.04E-12	3.93E-09	9.65E-11	4.40E-10	1.05E-12	5.38E-10	5.92E-11	2.02E-10	2.43E-13	2.62E-10
213	420558.3	3734176	6.65E-10	3.04E-09	6.65E-12	3.71E-09	9.12E-11	4.16E-10	9.90E-13	5.08E-10	5.60E-11	1.91E-10	2.30E-13	2.47E-10
214	420576	3734141	5.35E-10	2.45E-09	5.35E-12	2.99E-09	7.33E-11	3.34E-10	7.96E-13	4.08E-10	4.50E-11	1.54E-10	1.85E-13	1.99E-10
215	420580.4	3734132	5.08E-10	2.32E-09	5.08E-12	2.84E-09	6.96E-11	3.18E-10	7.56E-13	3.88E-10	4.27E-11	1.46E-10	1.76E-13	1.89E-10

216	420584.9	3734124	4.83E-10	2.21E-09	4.83E-12	2.70E-09	6.62E-11	3.02E-10	7.19E-13	3.69E-10	4.07E-11	1.39E-10	1.67E-13	1.80E-10
217	420599	3734113	4.61E-10	2.11E-09	4.60E-12	2.57E-09	6.32E-11	2.88E-10	6.86E-13	3.52E-10	3.88E-11	1.32E-10	1.59E-13	1.71E-10
218	420608.6	3734111	4.61E-10	2.11E-09	4.61E-12	2.58E-09	6.33E-11	2.88E-10	6.87E-13	3.52E-10	3.88E-11	1.33E-10	1.59E-13	1.72E-10
219	420637.7	3734106	4.66E-10	2.13E-09	4.65E-12	2.60E-09	6.38E-11	2.91E-10	6.93E-13	3.56E-10	3.92E-11	1.34E-10	1.61E-13	1.73E-10
220	420647.4	3734105	4.68E-10	2.14E-09	4.67E-12	2.61E-09	6.41E-11	2.92E-10	6.96E-13	3.57E-10	3.93E-11	1.34E-10	1.62E-13	1.74E-10
221	420657	3734103	4.70E-10	2.15E-09	4.70E-12	2.62E-09	6.44E-11	2.94E-10	6.99E-13	3.59E-10	3.95E-11	1.35E-10	1.62E-13	1.75E-10
222	420666.7	3734101	4.72E-10	2.16E-09	4.72E-12	2.63E-09	6.47E-11	2.95E-10	7.03E-13	3.60E-10	3.97E-11	1.36E-10	1.63E-13	1.75E-10
223	420676.4	3734099	4.74E-10	2.17E-09	4.74E-12	2.65E-09	6.50E-11	2.96E-10	7.06E-13	3.62E-10	3.99E-11	1.36E-10	1.64E-13	1.76E-10
224	420686.1	3734098	4.76E-10	2.18E-09	4.76E-12	2.66E-09	6.52E-11	2.98E-10	7.08E-13	3.63E-10	4.00E-11	1.37E-10	1.64E-13	1.77E-10
225	420695.7	3734096	4.78E-10	2.18E-09	4.77E-12	2.67E-09	6.55E-11	2.99E-10	7.11E-13	3.65E-10	4.02E-11	1.37E-10	1.65E-13	1.78E-10
226	420705.4	3734094	4.79E-10	2.19E-09	4.79E-12	2.67E-09	6.57E-11	2.99E-10	7.13E-13	3.66E-10	4.03E-11	1.38E-10	1.66E-13	1.78E-10
227	420715.1	3734092	4.80E-10	2.19E-09	4.80E-12	2.68E-09	6.58E-11	3.00E-10	7.14E-13	3.67E-10	4.04E-11	1.38E-10	1.66E-13	1.78E-10
228	420724.8	3734091	4.80E-10	2.20E-09	4.80E-12	2.68E-09	6.59E-11	3.00E-10	7.15E-13	3.67E-10	4.04E-11	1.38E-10	1.66E-13	1.79E-10
229	420734.4	3734089	4.80E-10	2.20E-09	4.80E-12	2.68E-09	6.59E-11	3.00E-10	7.15E-13	3.67E-10	4.04E-11	1.38E-10	1.66E-13	1.79E-10
230	420753.8	3734086	4.79E-10	2.19E-09	4.79E-12	2.67E-09	6.56E-11	2.99E-10	7.13E-13	3.66E-10	4.03E-11	1.38E-10	1.65E-13	1.78E-10
231	420763.5	3734084	4.77E-10	2.18E-09	4.77E-12	2.66E-09	6.54E-11	2.98E-10	7.10E-13	3.64E-10	4.01E-11	1.37E-10	1.65E-13	1.77E-10
232	420773.2	3734082	4.75E-10	2.17E-09	4.75E-12	2.65E-09	6.51E-11	2.97E-10	7.07E-13	3.63E-10	3.99E-11	1.36E-10	1.64E-13	1.77E-10
233	420500.7	3734290	1.26E-09	5.77E-09	1.26E-11	7.05E-09	1.73E-10	7.89E-10	1.88E-12	9.64E-10	1.06E-10	3.63E-10	4.36E-13	4.69E-10
234	420500.7	3734300	1.33E-09	6.09E-09	1.33E-11	7.44E-09	1.83E-10	8.33E-10	1.98E-12	1.02E-09	1.12E-10	3.83E-10	4.61E-13	4.96E-10
235	420500.6	3734310	1.40E-09	6.41E-09	1.40E-11	7.83E-09	1.92E-10	8.77E-10	2.09E-12	1.07E-09	1.18E-10	4.03E-10	4.85E-13	5.21E-10
236	420500.6	3734320	1.47E-09	6.72E-09	1.47E-11	8.20E-09	2.01E-10	9.19E-10	2.19E-12	1.12E-09	1.24E-10	4.22E-10	5.08E-13	5.46E-10
237	420500.6	3734330	1.53E-09	7.01E-09	1.53E-11	8.56E-09	2.10E-10	9.59E-10	2.28E-12	1.17E-09	1.29E-10	4.41E-10	5.30E-13	5.70E-10
238	420500.5	3734340	1.59E-09	7.29E-09	1.59E-11	8.89E-09	2.18E-10	9.96E-10	2.37E-12	1.22E-09	1.34E-10	4.58E-10	5.51E-13	5.92E-10
239	420500.5	3734350	1.65E-09	7.54E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	2.45E-12	1.26E-09	1.39E-10	4.74E-10	5.70E-13	6.13E-10
240	420511.5	3734229	8.94E-10	4.09E-09	8.93E-12	4.99E-09	1.23E-10	5.59E-10	1.33E-12	6.83E-10	7.52E-11	2.57E-10	3.09E-13	3.32E-10
241	420515.9	3734221	8.51E-10	3.89E-09	8.51E-12	4.75E-09	1.17E-10	5.32E-10	1.27E-12	6.50E-10	7.16E-11	2.45E-10	2.94E-13	3.17E-10
242	420520.2	3734212	8.09E-10	3.70E-09	8.09E-12	4.52E-09	1.11E-10	5.06E-10	1.20E-12	6.18E-10	6.81E-11	2.33E-10	2.80E-13	3.01E-10
243	420524.6	3734203	7.68E-10	3.51E-09	7.68E-12	4.29E-09	1.05E-10	4.80E-10	1.14E-12	5.87E-10	6.46E-11	2.21E-10	2.65E-13	2.86E-10
244	420529	3734195	7.28E-10	3.33E-09	7.28E-12	4.06E-09	9.98E-11	4.55E-10	1.08E-12	5.56E-10	6.12E-11	2.09E-10	2.52E-13	2.71E-10
245	420533.4	3734186	6.89E-10	3.15E-09	6.89E-12	3.85E-09	9.45E-11	4.31E-10	1.03E-12	5.27E-10	5.80E-11	1.98E-10	2.38E-13	2.56E-10
246	420537.8	3734177	6.53E-10	2.99E-09	6.53E-12	3.64E-09	8.95E-11	4.08E-10	9.72E-13	4.99E-10	5.49E-11	1.88E-10	2.26E-13	2.43E-10
247	420555.4	3734142	5.28E-10	2.41E-09	5.27E-12	2.94E-09	7.23E-11	3.30E-10	7.85E-13	4.03E-10	4.44E-11	1.52E-10	1.82E-13	1.96E-10
248	420559.8	3734134	5.01E-10	2.29E-09	5.01E-12	2.80E-09	6.87E-11	3.13E-10	7.46E-13	3.83E-10	4.22E-11	1.44E-10	1.73E-13	1.86E-10
249	420564.2	3734125	4.77E-10	2.18E-09	4.77E-12	2.66E-09	6.54E-11	2.98E-10	7.10E-13	3.64E-10	4.01E-11	1.37E-10	1.65E-13	1.77E-10
250	420568.6	3734116	4.54E-10	2.08E-09	4.54E-12	2.54E-09	6.23E-11	2.84E-10	6.76E-13	3.47E-10	3.82E-11	1.30E-10	1.57E-13	1.69E-10
251	420572.9	3734108	4.33E-10	1.98E-09	4.33E-12	2.42E-09	5.94E-11	2.71E-10	6.45E-13	3.31E-10	3.64E-11	1.24E-10	1.50E-13	1.61E-10
252	420586.9	3734097	4.14E-10	1.89E-09	4.13E-12	2.31E-09	5.67E-11	2.59E-10	6.16E-13	3.16E-10	3.48E-11	1.19E-10	1.43E-13	1.54E-10
253	420596.5	3734095	4.14E-10	1.89E-09	4.14E-12	2.31E-09	5.68E-11	2.59E-10	6.17E-13	3.16E-10	3.48E-11	1.19E-10	1.43E-13	1.54E-10
254	420606.1	3734094	4.15E-10	1.90E-09	4.15E-12	2.32E-09	5.69E-11	2.59E-10	6.18E-13	3.17E-10	3.49E-11	1.19E-10	1.43E-13	1.54E-10
255	420615.7	3734092	4.16E-10	1.90E-09	4.16E-12	2.32E-09	5.70E-11	2.60E-10	6.19E-13	3.18E-10	3.50E-11	1.20E-10	1.44E-13	1.55E-10
256	420634.9	3734089	4.19E-10	1.91E-09	4.19E-12	2.34E-09	5.74E-11	2.62E-10	6.23E-13	3.20E-10	3.52E-11	1.20E-10	1.45E-13	1.56E-10
257	420644.5	3734087	4.21E-10	1.92E-09	4.20E-12	2.35E-09	5.77E-11	2.63E-10	6.26E-13	3.21E-10	3.54E-11	1.21E-10	1.45E-13	1.56E-10
258	420654.1	3734085	4.23E-10	1.93E-09	4.22E-12	2.36E-09	5.79E-11	2.64E-10	6.29E-13	3.23E-10	3.56E-11	1.21E-10	1.46E-13	1.57E-10
259	420663.7	3734083	4.24E-10	1.94E-09	4.24E-12	2.37E-09	5.82E-11	2.65E-10	6.32E-13	3.24E-10	3.57E-11	1.22E-10	1.47E-13	1.58E-10
260	420673.3	3734082	4.26E-10	1.95E-09	4.26E-12	2.38E-09	5.84E-11	2.67E-10	6.35E-13	3.26E-10	3.59E-11	1.23E-10	1.47E-13	1.59E-10
261	420682.9	3734080	4.28E-10	1.96E-09	4.28E-12	2.39E-09	5.87E-11	2.68E-10	6.37E-13	3.27E-10	3.60E-11	1.23E-10	1.48E-13	1.59E-10
262	420692.5	3734078	4.30E-10	1.96E-09	4.29E-12	2.40E-09	5.89E-11	2.69E-10	6.40E-13	3.28E-10	3.61E-11	1.23E-10	1.48E-13	1.60E-10
263	420702.1	3734077	4.31E-10	1.97E-09	4.31E-12	2.41E-09	5.91E-11	2.69E-10	6.42E-13	3.29E-10	3.63E-11	1.24E-10	1.49E-13	1.60E-10
264	420711.7	3734075	4.32E-10	1.98E-09	4.32E-12	2.41E-09	5.92E-11	2.70E-10	6.43E-13	3.30E-10	3.63E-11	1.24E-10	1.49E-13	1.61E-10
265	420721.3	3734073	4.33E-10	1.98E-09	4.32E-12	2.42E-09	5.93E-11	2.71E-10	6.44E-13	3.30E-10	3.64E-11	1.24E-10	1.50E-13	1.61E-10
266	420730.9	3734071	4.33E-10	1.98E-09	4.33E-12	2.42E-09	5.94E-11	2.71E-10	6.44E-13	3.31E-10	3.64E-11	1.24E-10	1.50E-13	1.61E-10
267	420759.7	3734066	4.31E-10	1.97E-09	4.31E-12	2.40E-09	5.91E-11	2.69E-10	6.41E-13	3.29E-10	3.62E-11	1.24E-10	1.49E-13	1.60E-10
268	420769.3	3734065	4.29E-10	1.96E-09	4.29E-12	2.40E-09	5.88E-11	2.68E-10	6.39E-13	3.28E-10	3.61E-11	1.23E-10	1.48E-13	1.60E-10
269	420778.9	3734063	4.27E-10	1.95E-09	4.27E-12	2.38E-09	5.85E-11	2.67E-10	6.36E-13	3.26E-10	3.59E-11	1.23E-10	1.48E-13	1.59E-10
270	420480.7	3734290	1.13E-09	5.17E-09	1.13E-11	6.31E-09	1.55E-10	7.07E-10	1.68E-12	8.64E-10	9.51E-11	3.25E-10	3.91E-13	4.20E-10
271	420480.7	3734300	1.18E-09	5.41E-09	1.18E-11	6.60E-09	1.62E-10	7.39E-10	1.76E-12	9.03E-10	9.95E-11	3.40E-10	4.09E-13	4.40E-10
272	420480.6	3734310	1.23E-09	5.63E-09	1.23E-11	6.88E-09	1.69E-10	7.70E-10	1.83E-12	9.41E-10	1.04E-10	3.54E-10	4.26E-13	4.58E-10
273	420480.6	3734320	1.28E-09	5.85E-09	1.28E-11	7.14E-09	1.75E-10	7.99E-10	1.90E-12	9.77E-10	1.08E-10	3.67E-10	4.42E-13	4.75E-10
274	420480.6	3734330	1.32E-09	6.04E-09	1.32E-11	7.38E-09	1.81E-10	8.26E-10	1.97E-12	1.01E-09	1.11E-10	3.80E-10	4.57E-13	4.92E-10
275	420480.5	3734340	1.36E-09	6.22E-09	1.36E-11	7.59E-09	1.86E-10	8.51E-10	2.03E-12	1.04E-09	1.14E-10	3.91E-10	4.70E-13	5.06E-10
276	420480.5	3734350	1.39E-09	6.38E-09	1.39E-11	7.79E-09	1.91E-10	8.72E-10	2.08E-12	1.07E-09	1.17E-10	4.01E-10	4.82E-13	5.19E-10
277	420482.5	3734247	9.09E-10	4.16E-09	9.09E-12	5.08E-09	1.25E-10	5.69E-10	1.35E-12	6.95E-10	7.65E-11	2.61E-10	3.14E-13	3.38E-10
278	420486.9	3734238	8.79E-10	4.02E-09	8.79E-12	4.91E-09	1.21E-10	5.50E-10	1.31E-12	6.72E-10	7.40E-11	2.53E-10	3.04E-13	3.27E-10
279	420491.2	3734230	8.47E-10	3.87E-09	8.46E-12	4.73E-09	1.16E-10	5.29E-10	1.26E-12	6.47E-10	7.12E-11	2.43E-10	2.93E-13	3.15E-10
280	420513.1	3734187	6.72E-10	3.07E-09	6.72E-12	3.75E-09	9.22E-11	4.20E-10	1.00E-12	5.13E-10	5.66E-11	1.93E-10	2.32E-13	2.50E-10
281	420517.4	3734178	6.39E-10	2.92E-09	6.39E-12	3.57E-09	8.76E-11	3.99E-10	9.51E-13	4.88E-10	5.38E-11	1.84E-10	2.21E-13	2.38E-10
282	420521.8	3734169	6.07E-10	2.77E-09	6.07E-12	3.39E-09	8.32E-11	3.79E-10	9.03E-13	4.63E-10	5.11E-11	1.74E-10	2.10E-13	2.26E-10
283	420534.9	3734143	5.20E-10	2.38E-09	5.20E-12	2.90E-09	7.13E-11	3.25E-10	7.75E-13	3.97E-10	4.38E-11	1.50E-10	1.80E-13	1.93E-10
284	420539.2	3734135	4.95E-10	2.26E-09	4.95E-12	2.76E-09	6.78E-11	3.09E-10	7.37E-13	3.78E-10	4.16E-11	1.42E-10	1.71E-13	1.84E-10
285	420543.6	3734126	4.71E-10	2.15E-09	4.71E-12	2.63E-09	6.46E-11	2.94E-10	7.01E-13	3.60E-10	3.96E-11	1.35E-10	1.63E-13	1.75E-10
286	420547.9	3734117	4.49E-10	2.05E-09	4.48E-12	2.50E-09	6.15E-11	2.80E-10	6.68E-13	3.43E-10	3.77E-11	1.29E-10	1.55E-13	1.67E-10
287	420552.3	3734109	4.28E-10	1.96E-09	4.28E-12	2.39E-09	5.86E-11	2.67E-10	6.37E-13	3.27E-10	3.60E-11	1.23E-10	1.48E-13	1.59E-10
288	420556.7	3734100	4.08E-10	1.87E-09	4.08E-12	2.28E-09	5.60E-11	2.55E-10	6.08E-13	3.12E-10	3.44E-11	1.17E-10	1.41E-13	1.52E-10

289	420561	3734092	3.90E-10	1.78E-09	3.90E-12	2.18E-09	5.35E-11	2.44E-10	5.81E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
290	420574.9	3734081	3.73E-10	1.71E-09	3.73E-12	2.08E-09	5.12E-11	2.33E-10	5.56E-13	2.85E-10	3.14E-11	1.07E-10	1.29E-13	1.39E-10
291	420584.5	3734079	3.74E-10	1.71E-09	3.73E-12	2.09E-09	5.12E-11	2.34E-10	5.56E-13	2.85E-10	3.14E-11	1.07E-10	1.29E-13	1.39E-10
292	420594	3734078	3.74E-10	1.71E-09	3.74E-12	2.09E-09	5.13E-11	2.34E-10	5.57E-13	2.86E-10	3.15E-11	1.08E-10	1.29E-13	1.39E-10
293	420603.5	3734076	3.75E-10	1.71E-09	3.75E-12	2.09E-09	5.14E-11	2.34E-10	5.58E-13	2.86E-10	3.16E-11	1.08E-10	1.30E-13	1.39E-10
294	420613	3734074	3.76E-10	1.72E-09	3.76E-12	2.10E-09	5.16E-11	2.35E-10	5.60E-13	2.87E-10	3.16E-11	1.08E-10	1.30E-13	1.40E-10
295	420632.1	3734071	3.79E-10	1.73E-09	3.79E-12	2.12E-09	5.19E-11	2.37E-10	5.64E-13	2.89E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
296	420641.6	3734069	3.80E-10	1.74E-09	3.80E-12	2.12E-09	5.22E-11	2.38E-10	5.66E-13	2.91E-10	3.20E-11	1.09E-10	1.31E-13	1.41E-10
297	420651.2	3734068	3.82E-10	1.75E-09	3.82E-12	2.13E-09	5.24E-11	2.39E-10	5.69E-13	2.92E-10	3.21E-11	1.10E-10	1.32E-13	1.42E-10
298	420660.7	3734066	3.84E-10	1.75E-09	3.84E-12	2.14E-09	5.26E-11	2.40E-10	5.71E-13	2.93E-10	3.23E-11	1.10E-10	1.33E-13	1.43E-10
299	420670.2	3734064	3.85E-10	1.76E-09	3.85E-12	2.15E-09	5.28E-11	2.41E-10	5.74E-13	2.94E-10	3.24E-11	1.11E-10	1.33E-13	1.43E-10
300	420679.8	3734062	3.87E-10	1.77E-09	3.87E-12	2.16E-09	5.30E-11	2.42E-10	5.76E-13	2.96E-10	3.26E-11	1.11E-10	1.34E-13	1.44E-10
301	420689.3	3734061	3.88E-10	1.78E-09	3.88E-12	2.17E-09	5.32E-11	2.43E-10	5.78E-13	2.97E-10	3.27E-11	1.12E-10	1.34E-13	1.44E-10
302	420698.8	3734059	3.90E-10	1.78E-09	3.89E-12	2.17E-09	5.34E-11	2.44E-10	5.80E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
303	420708.4	3734057	3.91E-10	1.79E-09	3.90E-12	2.18E-09	5.35E-11	2.44E-10	5.81E-13	2.98E-10	3.29E-11	1.12E-10	1.35E-13	1.45E-10
304	420717.9	3734056	3.91E-10	1.79E-09	3.91E-12	2.18E-09	5.36E-11	2.45E-10	5.83E-13	2.99E-10	3.29E-11	1.12E-10	1.35E-13	1.46E-10
305	420727.4	3734054	3.92E-10	1.79E-09	3.91E-12	2.19E-09	5.37E-11	2.45E-10	5.83E-13	2.99E-10	3.29E-11	1.13E-10	1.35E-13	1.46E-10
306	420736.9	3734052	3.92E-10	1.79E-09	3.91E-12	2.19E-09	5.37E-11	2.45E-10	5.83E-13	2.99E-10	3.29E-11	1.12E-10	1.35E-13	1.46E-10
307	420756	3734049	3.90E-10	1.78E-09	3.90E-12	2.18E-09	5.35E-11	2.44E-10	5.81E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
308	420765.5	3734047	3.89E-10	1.78E-09	3.89E-12	2.17E-09	5.33E-11	2.43E-10	5.79E-13	2.97E-10	3.27E-11	1.12E-10	1.34E-13	1.45E-10
309	420775.1	3734045	3.88E-10	1.77E-09	3.87E-12	2.16E-09	5.31E-11	2.42E-10	5.77E-13	2.96E-10	3.26E-11	1.11E-10	1.34E-13	1.44E-10
310	420784.6	3734044	3.86E-10	1.76E-09	3.86E-12	2.15E-09	5.29E-11	2.41E-10	5.74E-13	2.95E-10	3.25E-11	1.11E-10	1.33E-13	1.43E-10
311	420460.7	3734290	1.01E-09	4.61E-09	1.01E-11	5.63E-09	1.38E-10	6.31E-10	1.50E-12	7.71E-10	8.49E-11	2.90E-10	3.49E-13	3.75E-10
312	420460.7	3734300	1.05E-09	4.78E-09	1.05E-11	5.84E-09	1.43E-10	6.54E-10	1.56E-12	7.99E-10	8.80E-11	3.01E-10	3.62E-13	3.89E-10
313	420460.6	3734310	1.08E-09	4.94E-09	1.08E-11	6.03E-09	1.48E-10	6.76E-10	1.61E-12	8.26E-10	9.09E-11	3.11E-10	3.74E-13	4.02E-10
314	420460.6	3734320	1.11E-09	5.09E-09	1.11E-11	6.21E-09	1.53E-10	6.96E-10	1.66E-12	8.50E-10	9.36E-11	3.20E-10	3.85E-13	4.14E-10
315	420460.6	3734330	1.14E-09	5.22E-09	1.14E-11	6.37E-09	1.56E-10	7.13E-10	1.70E-12	8.72E-10	9.60E-11	3.28E-10	3.94E-13	4.24E-10
316	420460.5	3734340	1.17E-09	5.33E-09	1.17E-11	6.51E-09	1.60E-10	7.29E-10	1.74E-12	8.90E-10	9.81E-11	3.35E-10	4.03E-13	4.33E-10
317	420460.5	3734349	1.19E-09	5.43E-09	1.19E-11	6.62E-09	1.63E-10	7.42E-10	1.77E-12	9.06E-10	9.98E-11	3.41E-10	4.10E-13	4.41E-10
318	420462.4	3734247	8.41E-10	3.85E-09	8.41E-12	4.70E-09	1.15E-10	5.26E-10	1.25E-12	6.42E-10	7.08E-11	2.42E-10	2.91E-13	3.13E-10
319	420466.7	3734239	8.20E-10	3.75E-09	8.19E-12	4.57E-09	1.12E-10	5.12E-10	1.22E-12	6.26E-10	6.89E-11	2.35E-10	2.83E-13	3.05E-10
320	420471.1	3734230	7.95E-10	3.64E-09	7.95E-12	4.44E-09	1.09E-10	4.97E-10	1.18E-12	6.07E-10	6.69E-11	2.29E-10	2.75E-13	2.96E-10
321	420475.4	3734221	7.69E-10	3.51E-09	7.68E-12	4.29E-09	1.05E-10	4.81E-10	1.14E-12	5.87E-10	6.47E-11	2.21E-10	2.66E-13	2.86E-10
322	420479.7	3734213	7.40E-10	3.39E-09	7.40E-12	4.13E-09	1.01E-10	4.63E-10	1.10E-12	5.65E-10	6.23E-11	2.13E-10	2.56E-13	2.75E-10
323	420484.1	3734204	7.11E-10	3.25E-09	7.11E-12	3.97E-09	9.75E-11	4.44E-10	1.06E-12	5.43E-10	5.98E-11	2.04E-10	2.46E-13	2.64E-10
324	420488.4	3734196	6.81E-10	3.11E-09	6.81E-12	3.80E-09	9.34E-11	4.26E-10	1.01E-12	5.20E-10	5.73E-11	1.96E-10	2.35E-13	2.53E-10
325	420492.7	3734187	6.51E-10	2.98E-09	6.51E-12	3.64E-09	8.93E-11	4.07E-10	9.69E-13	4.97E-10	5.48E-11	1.87E-10	2.25E-13	2.42E-10
326	420514.4	3734144	5.12E-10	2.34E-09	5.12E-12	2.86E-09	7.03E-11	3.20E-10	7.63E-13	3.91E-10	4.31E-11	1.47E-10	1.77E-13	1.91E-10
327	420518.8	3734136	4.88E-10	2.23E-09	4.88E-12	2.72E-09	6.69E-11	3.05E-10	7.27E-13	3.73E-10	4.11E-11	1.40E-10	1.69E-13	1.82E-10
328	420523.1	3734127	4.65E-10	2.13E-09	4.65E-12	2.60E-09	6.38E-11	2.91E-10	6.92E-13	3.55E-10	3.91E-11	1.34E-10	1.61E-13	1.73E-10
329	420527.4	3734118	4.43E-10	2.03E-09	4.43E-12	2.47E-09	6.08E-11	2.77E-10	6.60E-13	3.39E-10	3.73E-11	1.27E-10	1.53E-13	1.65E-10
330	420531.8	3734110	4.23E-10	1.93E-09	4.23E-12	2.36E-09	5.80E-11	2.64E-10	6.29E-13	3.23E-10	3.56E-11	1.22E-10	1.46E-13	1.57E-10
331	420536.1	3734101	4.04E-10	1.85E-09	4.04E-12	2.25E-09	5.53E-11	2.52E-10	6.01E-13	3.08E-10	3.40E-11	1.16E-10	1.40E-13	1.50E-10
332	420540.4	3734093	3.86E-10	1.76E-09	3.86E-12	2.15E-09	5.29E-11	2.41E-10	5.74E-13	2.95E-10	3.25E-11	1.11E-10	1.33E-13	1.43E-10
333	420544.8	3734084	3.69E-10	1.69E-09	3.69E-12	2.06E-09	5.06E-11	2.31E-10	5.49E-13	2.82E-10	3.10E-11	1.06E-10	1.27E-13	1.37E-10
334	420549.1	3734075	3.53E-10	1.62E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.26E-13	2.70E-10	2.97E-11	1.02E-10	1.22E-13	1.31E-10
335	420562.9	3734065	3.38E-10	1.55E-09	3.38E-12	1.89E-09	4.64E-11	2.12E-10	5.04E-13	2.58E-10	2.85E-11	9.72E-11	1.17E-13	1.26E-10
336	420572.4	3734063	3.39E-10	1.55E-09	3.38E-12	1.89E-09	4.64E-11	2.12E-10	5.04E-13	2.59E-10	2.85E-11	9.73E-11	1.17E-13	1.26E-10
337	420581.9	3734062	3.39E-10	1.55E-09	3.39E-12	1.89E-09	4.65E-11	2.12E-10	5.05E-13	2.59E-10	2.85E-11	9.74E-11	1.17E-13	1.26E-10
338	420591.3	3734060	3.40E-10	1.55E-09	3.40E-12	1.90E-09	4.66E-11	2.12E-10	5.06E-13	2.60E-10	2.86E-11	9.76E-11	1.17E-13	1.26E-10
339	420600.8	3734058	3.41E-10	1.56E-09	3.40E-12	1.90E-09	4.67E-11	2.13E-10	5.07E-13	2.60E-10	2.87E-11	9.79E-11	1.18E-13	1.27E-10
340	420638.7	3734052	3.46E-10	1.58E-09	3.45E-12	1.93E-09	4.74E-11	2.16E-10	5.14E-13	2.64E-10	2.91E-11	9.93E-11	1.19E-13	1.29E-10
341	420648.2	3734050	3.47E-10	1.59E-09	3.47E-12	1.94E-09	4.76E-11	2.17E-10	5.17E-13	2.65E-10	2.92E-11	9.97E-11	1.20E-13	1.29E-10
342	420657.7	3734048	3.49E-10	1.59E-09	3.48E-12	1.95E-09	4.78E-11	2.18E-10	5.19E-13	2.66E-10	2.93E-11	1.00E-10	1.20E-13	1.30E-10
343	420667.1	3734046	3.50E-10	1.60E-09	3.50E-12	1.95E-09	4.80E-11	2.19E-10	5.21E-13	2.67E-10	2.95E-11	1.01E-10	1.21E-13	1.30E-10
344	420676.6	3734045	3.51E-10	1.61E-09	3.51E-12	1.96E-09	4.82E-11	2.20E-10	5.23E-13	2.68E-10	2.96E-11	1.01E-10	1.21E-13	1.31E-10
345	420686.1	3734043	3.53E-10	1.61E-09	3.53E-12	1.97E-09	4.83E-11	2.21E-10	5.25E-13	2.69E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
346	420695.6	3734041	3.54E-10	1.62E-09	3.54E-12	1.98E-09	4.85E-11	2.21E-10	5.27E-13	2.70E-10	2.98E-11	1.02E-10	1.22E-13	1.32E-10
347	420705	3734040	3.55E-10	1.62E-09	3.55E-12	1.98E-09	4.86E-11	2.22E-10	5.28E-13	2.71E-10	2.98E-11	1.02E-10	1.23E-13	1.32E-10
348	420714.5	3734038	3.55E-10	1.62E-09	3.55E-12	1.98E-09	4.87E-11	2.22E-10	5.29E-13	2.71E-10	2.99E-11	1.02E-10	1.23E-13	1.32E-10
349	420724	3734036	3.56E-10	1.63E-09	3.56E-12	1.99E-09	4.88E-11	2.22E-10	5.30E-13	2.72E-10	2.99E-11	1.02E-10	1.23E-13	1.32E-10
350	420733.5	3734035	3.56E-10	1.63E-09	3.56E-12	1.99E-09	4.88E-11	2.22E-10	5.30E-13	2.72E-10	2.99E-11	1.02E-10	1.23E-13	1.32E-10
351	420752.4	3734031	3.55E-10	1.62E-09	3.55E-12	1.98E-09	4.87E-11	2.22E-10	5.29E-13	2.71E-10	2.99E-11	1.02E-10	1.23E-13	1.32E-10
352	420761.9	3734030	3.54E-10	1.62E-09	3.54E-12	1.98E-09	4.86E-11	2.22E-10	5.28E-13	2.71E-10	2.98E-11	1.02E-10	1.22E-13	1.32E-10
353	420771.4	3734028	3.53E-10	1.62E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.26E-13	2.70E-10	2.97E-11	1.02E-10	1.22E-13	1.31E-10
354	420780.8	3734026	3.52E-10	1.61E-09	3.52E-12	1.96E-09	4.82E-11	2.20E-10	5.24E-13	2.69E-10	2.96E-11	1.01E-10	1.22E-13	1.31E-10
355	420790.3	3734024	3.50E-10	1.60E-09	3.50E-12	1.96E-09	4.80E-11	2.19E-10	5.21E-13	2.68E-10	2.95E-11	1.01E-10	1.21E-13	1.30E-10
356	420442.3	3734247	7.73E-10	3.53E-09	7.73E-12	4.32E-09	1.06E-10	4.83E-10	1.15E-12	5.90E-10	6.50E-11	2.22E-10	2.67E-13	2.87E-10
357	420446.6	3734239	7.59E-10	3.47E-09	7.58E-12	4.23E-09	1.04E-10	4.74E-10	1.13E-12	5.79E-10	6.38E-11	2.18E-10	2.62E-13	2.82E-10
358	420450.9	3734230	7.41E-10	3.39E-09	7.41E-12	4.14E-09	1.02E-10	4.63E-10	1.10E-12	5.66E-10	6.24E-11	2.13E-10	2.56E-13	2.76E-10
359	420455.2	3734222	7.22E-10	3.30E-09	7.21E-12	4.03E-09	9.89E-11	4.51E-10	1.07E-12	5.51E-10	6.07E-11	2.07E-10	2.49E-13	2.68E-10
360	420459.5	3734213	7.00E-10	3.20E-09	6.99E-12	3.91E-09	9.59E-11	4.37E-10	1.04E-12	5.34E-10	5.89E-11	2.01E-10	2.42E-13	2.60E-10
361	420463.9	3734205	6.76E-10	3.09E-09	6.76E-12	3.78E-09	9.27E-11	4.23E-10	1.01E-12	5.17E-10	5.69E-11	1.94E-10	2.34E-13	2.51E-10

362	420468.2	3734196	6.52E-10	2.98E-09	6.52E-12	3.64E-09	8.94E-11	4.08E-10	9.71E-13	4.98E-10	5.49E-11	1.87E-10	2.25E-13	2.42E-10
363	420472.5	3734188	6.27E-10	2.87E-09	6.26E-12	3.50E-09	8.59E-11	3.92E-10	9.33E-13	4.79E-10	5.27E-11	1.80E-10	2.17E-13	2.33E-10
364	420476.8	3734179	6.01E-10	2.75E-09	6.01E-12	3.36E-09	8.24E-11	3.76E-10	8.95E-13	4.59E-10	5.06E-11	1.73E-10	2.08E-13	2.24E-10
365	420481.1	3734170	5.76E-10	2.63E-09	5.76E-12	3.22E-09	7.90E-11	3.60E-10	8.58E-13	4.40E-10	4.85E-11	1.66E-10	1.99E-13	2.14E-10
366	420511.3	3734111	4.18E-10	1.91E-09	4.18E-12	2.33E-09	5.73E-11	2.61E-10	6.22E-13	3.19E-10	3.52E-11	1.20E-10	1.44E-13	1.55E-10
367	420515.6	3734102	3.99E-10	1.83E-09	3.99E-12	2.23E-09	5.47E-11	2.50E-10	5.94E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.48E-10
368	420519.9	3734094	3.82E-10	1.75E-09	3.82E-12	2.13E-09	5.23E-11	2.39E-10	5.68E-13	2.92E-10	3.21E-11	1.10E-10	1.32E-13	1.42E-10
369	420524.2	3734085	3.65E-10	1.67E-09	3.65E-12	2.04E-09	5.01E-11	2.28E-10	5.44E-13	2.79E-10	3.07E-11	1.05E-10	1.26E-13	1.36E-10
370	420528.6	3734076	3.50E-10	1.60E-09	3.50E-12	1.95E-09	4.79E-11	2.19E-10	5.21E-13	2.67E-10	2.94E-11	1.00E-10	1.21E-13	1.30E-10
371	420532.9	3734068	3.35E-10	1.53E-09	3.35E-12	1.87E-09	4.59E-11	2.10E-10	4.99E-13	2.56E-10	2.82E-11	9.63E-11	1.16E-13	1.25E-10
372	420537.2	3734059	3.22E-10	1.47E-09	3.21E-12	1.79E-09	4.41E-11	2.01E-10	4.79E-13	2.46E-10	2.71E-11	9.24E-11	1.11E-13	1.20E-10
373	420579.2	3734044	3.09E-10	1.41E-09	3.09E-12	1.73E-09	4.24E-11	1.93E-10	4.60E-13	2.36E-10	2.60E-11	8.89E-11	1.07E-13	1.15E-10
374	420588.6	3734042	3.10E-10	1.42E-09	3.10E-12	1.73E-09	4.25E-11	1.94E-10	4.61E-13	2.37E-10	2.61E-11	8.91E-11	1.07E-13	1.15E-10
375	420598.1	3734041	3.11E-10	1.42E-09	3.11E-12	1.73E-09	4.26E-11	1.94E-10	4.63E-13	2.37E-10	2.61E-11	8.93E-11	1.07E-13	1.16E-10
376	420607.5	3734039	3.12E-10	1.43E-09	3.12E-12	1.74E-09	4.27E-11	1.95E-10	4.64E-13	2.38E-10	2.62E-11	8.96E-11	1.08E-13	1.16E-10
377	420635.8	3734034	3.15E-10	1.44E-09	3.15E-12	1.76E-09	4.32E-11	1.97E-10	4.69E-13	2.41E-10	2.65E-11	9.06E-11	1.09E-13	1.17E-10
378	420645.2	3734032	3.17E-10	1.45E-09	3.16E-12	1.77E-09	4.34E-11	1.98E-10	4.71E-13	2.42E-10	2.66E-11	9.10E-11	1.09E-13	1.18E-10
379	420654.6	3734031	3.18E-10	1.45E-09	3.18E-12	1.77E-09	4.36E-11	1.99E-10	4.73E-13	2.43E-10	2.67E-11	9.14E-11	1.10E-13	1.18E-10
380	420664	3734029	3.19E-10	1.46E-09	3.19E-12	1.78E-09	4.38E-11	2.00E-10	4.75E-13	2.44E-10	2.69E-11	9.17E-11	1.10E-13	1.19E-10
381	420673.5	3734027	3.20E-10	1.47E-09	3.20E-12	1.79E-09	4.39E-11	2.00E-10	4.77E-13	2.45E-10	2.70E-11	9.21E-11	1.11E-13	1.19E-10
382	420682.9	3734026	3.22E-10	1.47E-09	3.21E-12	1.80E-09	4.41E-11	2.01E-10	4.79E-13	2.46E-10	2.71E-11	9.24E-11	1.11E-13	1.20E-10
383	420692.3	3734024	3.23E-10	1.47E-09	3.22E-12	1.80E-09	4.42E-11	2.02E-10	4.80E-13	2.46E-10	2.71E-11	9.27E-11	1.11E-13	1.20E-10
384	420701.7	3734022	3.23E-10	1.48E-09	3.23E-12	1.81E-09	4.43E-11	2.02E-10	4.81E-13	2.47E-10	2.72E-11	9.29E-11	1.12E-13	1.20E-10
385	420711.2	3734020	3.24E-10	1.48E-09	3.24E-12	1.81E-09	4.44E-11	2.03E-10	4.82E-13	2.48E-10	2.73E-11	9.31E-11	1.12E-13	1.20E-10
386	420720.6	3734019	3.25E-10	1.48E-09	3.24E-12	1.81E-09	4.45E-11	2.03E-10	4.83E-13	2.48E-10	2.73E-11	9.32E-11	1.12E-13	1.21E-10
387	420730	3734017	3.25E-10	1.49E-09	3.25E-12	1.81E-09	4.45E-11	2.03E-10	4.84E-13	2.48E-10	2.73E-11	9.33E-11	1.12E-13	1.21E-10
388	420758.3	3734012	3.24E-10	1.48E-09	3.24E-12	1.81E-09	4.44E-11	2.03E-10	4.82E-13	2.47E-10	2.73E-11	9.31E-11	1.12E-13	1.20E-10
389	420767.7	3734010	3.23E-10	1.48E-09	3.23E-12	1.80E-09	4.43E-11	2.02E-10	4.81E-13	2.47E-10	2.72E-11	9.28E-11	1.12E-13	1.20E-10
390	420777.1	3734009	3.22E-10	1.47E-09	3.22E-12	1.80E-09	4.42E-11	2.01E-10	4.80E-13	2.46E-10	2.71E-11	9.26E-11	1.11E-13	1.20E-10
391	420786.6	3734007	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.40E-11	2.01E-10	4.78E-13	2.45E-10	2.70E-11	9.22E-11	1.11E-13	1.19E-10
392	420796	3734005	3.19E-10	1.46E-09	3.19E-12	1.78E-09	4.38E-11	2.00E-10	4.75E-13	2.44E-10	2.69E-11	9.18E-11	1.10E-13	1.19E-10
393	420420.7	3734290	7.99E-10	3.65E-09	7.98E-12	4.46E-09	1.09E-10	4.99E-10	1.19E-12	6.10E-10	6.72E-11	2.30E-10	2.76E-13	2.97E-10
394	420420.7	3734300	8.17E-10	3.73E-09	8.16E-12	4.56E-09	1.12E-10	5.11E-10	1.22E-12	6.24E-10	6.87E-11	2.35E-10	2.82E-13	3.04E-10
395	420420.6	3734310	8.33E-10	3.81E-09	8.32E-12	4.65E-09	1.14E-10	5.21E-10	1.24E-12	6.36E-10	7.01E-11	2.39E-10	2.88E-13	3.10E-10
396	420420.6	3734320	8.46E-10	3.87E-09	8.46E-12	4.72E-09	1.16E-10	5.29E-10	1.26E-12	6.46E-10	7.12E-11	2.43E-10	2.92E-13	3.15E-10
397	420420.6	3734330	8.57E-10	3.92E-09	8.57E-12	4.79E-09	1.18E-10	5.36E-10	1.28E-12	6.55E-10	7.21E-11	2.46E-10	2.96E-13	3.19E-10
398	420420.5	3734339	8.66E-10	3.96E-09	8.66E-12	4.83E-09	1.19E-10	5.41E-10	1.29E-12	6.61E-10	7.29E-11	2.49E-10	2.99E-13	3.22E-10
399	420420.5	3734349	8.73E-10	3.99E-09	8.72E-12	4.87E-09	1.20E-10	5.46E-10	1.30E-12	6.66E-10	7.34E-11	2.51E-10	3.02E-13	3.24E-10
400	420398.4	3734255	6.47E-10	2.96E-09	6.46E-12	3.61E-09	8.86E-11	4.04E-10	9.63E-13	4.94E-10	5.44E-11	1.86E-10	2.23E-13	2.40E-10
401	420402.8	3734246	6.44E-10	2.94E-09	6.44E-12	3.59E-09	8.83E-11	4.03E-10	9.59E-13	4.92E-10	5.42E-11	1.85E-10	2.23E-13	2.39E-10
402	420407.2	3734237	6.39E-10	2.92E-09	6.39E-12	3.57E-09	8.76E-11	3.99E-10	9.51E-13	4.88E-10	5.38E-11	1.84E-10	2.21E-13	2.38E-10
403	420411.6	3734229	6.31E-10	2.89E-09	6.31E-12	3.52E-09	8.65E-11	3.95E-10	9.40E-13	4.82E-10	5.31E-11	1.81E-10	2.18E-13	2.35E-10
404	420416	3734220	6.21E-10	2.84E-09	6.21E-12	3.47E-09	8.52E-11	3.88E-10	9.25E-13	4.75E-10	5.23E-11	1.79E-10	2.15E-13	2.31E-10
405	420420.5	3734211	6.09E-10	2.79E-09	6.09E-12	3.40E-09	8.35E-11	3.81E-10	9.07E-13	4.65E-10	5.13E-11	1.75E-10	2.11E-13	2.27E-10
406	420424.9	3734202	5.96E-10	2.72E-09	5.95E-12	3.32E-09	8.16E-11	3.72E-10	8.86E-13	4.55E-10	5.01E-11	1.71E-10	2.06E-13	2.21E-10
407	420429.3	3734194	5.80E-10	2.65E-09	5.80E-12	3.24E-09	7.95E-11	3.63E-10	8.63E-13	4.43E-10	4.88E-11	1.67E-10	2.00E-13	2.16E-10
408	420433.7	3734185	5.63E-10	2.57E-09	5.63E-12	3.14E-09	7.72E-11	3.52E-10	8.38E-13	4.30E-10	4.74E-11	1.62E-10	1.95E-13	2.09E-10
409	420438.1	3734176	5.45E-10	2.49E-09	5.45E-12	3.04E-09	7.47E-11	3.41E-10	8.11E-13	4.16E-10	4.59E-11	1.57E-10	1.88E-13	2.03E-10
410	420442.5	3734167	5.26E-10	2.41E-09	5.26E-12	2.94E-09	7.21E-11	3.29E-10	7.83E-13	4.02E-10	4.43E-11	1.51E-10	1.82E-13	1.96E-10
411	420455.8	3734141	4.68E-10	2.14E-09	4.68E-12	2.61E-09	6.42E-11	2.93E-10	6.97E-13	3.58E-10	3.94E-11	1.35E-10	1.62E-13	1.74E-10
412	420460.2	3734132	4.49E-10	2.05E-09	4.49E-12	2.51E-09	6.16E-11	2.81E-10	6.69E-13	3.43E-10	3.78E-11	1.29E-10	1.55E-13	1.67E-10
413	420464.6	3734124	4.30E-10	1.97E-09	4.30E-12	2.40E-09	5.90E-11	2.69E-10	6.41E-13	3.29E-10	3.62E-11	1.24E-10	1.49E-13	1.60E-10
414	420469	3734115	4.12E-10	1.89E-09	4.12E-12	2.30E-09	5.65E-11	2.58E-10	6.14E-13	3.15E-10	3.47E-11	1.18E-10	1.42E-13	1.53E-10
415	420473.4	3734106	3.95E-10	1.80E-09	3.95E-12	2.20E-09	5.41E-11	2.47E-10	5.88E-13	3.01E-10	3.32E-11	1.13E-10	1.36E-13	1.47E-10
416	420477.9	3734097	3.78E-10	1.73E-09	3.78E-12	2.11E-09	5.18E-11	2.36E-10	5.63E-13	2.89E-10	3.18E-11	1.09E-10	1.31E-13	1.41E-10
417	420482.3	3734089	3.62E-10	1.65E-09	3.62E-12	2.02E-09	4.96E-11	2.26E-10	5.39E-13	2.76E-10	3.04E-11	1.04E-10	1.25E-13	1.35E-10
418	420486.7	3734080	3.47E-10	1.58E-09	3.46E-12	1.94E-09	4.75E-11	2.17E-10	5.16E-13	2.65E-10	2.92E-11	9.96E-11	1.20E-13	1.29E-10
419	420491.1	3734071	3.32E-10	1.52E-09	3.32E-12	1.85E-09	4.55E-11	2.08E-10	4.94E-13	2.54E-10	2.79E-11	9.54E-11	1.15E-13	1.23E-10
420	420508.8	3734036	2.81E-10	1.29E-09	2.81E-12	1.57E-09	3.86E-11	1.76E-10	4.19E-13	2.15E-10	2.37E-11	8.09E-11	9.73E-14	1.05E-10
421	420513.2	3734027	2.71E-10	1.24E-09	2.70E-12	1.51E-09	3.71E-11	1.69E-10	4.03E-13	2.07E-10	2.28E-11	7.78E-11	9.35E-14	1.01E-10
422	420527.3	3734017	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.63E-10	3.87E-13	1.99E-10	2.19E-11	7.47E-11	8.98E-14	9.67E-11
423	420536.9	3734015	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.62E-10	3.87E-13	1.98E-10	2.19E-11	7.46E-11	8.97E-14	9.66E-11
424	420546.5	3734014	2.60E-10	1.19E-09	2.59E-12	1.45E-09	3.56E-11	1.62E-10	3.86E-13	1.98E-10	2.18E-11	7.46E-11	8.97E-14	9.65E-11
425	420556.2	3734012	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.62E-10	3.87E-13	1.98E-10	2.19E-11	7.46E-11	8.97E-14	9.66E-11
426	420565.8	3734010	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.62E-10	3.87E-13	1.98E-10	2.19E-11	7.47E-11	8.98E-14	9.66E-11
427	420575.5	3734008	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.57E-11	1.63E-10	3.88E-13	1.99E-10	2.19E-11	7.48E-11	9.00E-14	9.68E-11
428	420585.1	3734007	2.61E-10	1.19E-09	2.61E-12	1.46E-09	3.58E-11	1.63E-10	3.89E-13	1.99E-10	2.20E-11	7.50E-11	9.02E-14	9.71E-11
429	420594.8	3734005	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.59E-11	1.64E-10	3.90E-13	2.00E-10	2.20E-11	7.52E-11	9.05E-14	9.74E-11
430	420604.4	3734003	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.60E-11	1.64E-10	3.91E-13	2.01E-10	2.21E-11	7.55E-11	9.08E-14	9.77E-11
431	420614.1	3734001	2.64E-10	1.21E-09	2.64E-12	1.47E-09	3.61E-11	1.65E-10	3.92E-13	2.01E-10	2.22E-11	7.58E-11	9.11E-14	9.80E-11
432	420633.4	3733998	2.66E-10	1.21E-09	2.66E-12	1.48E-09	3.64E-11	1.66E-10	3.96E-13	2.03E-10	2.24E-11	7.63E-11	9.18E-14	9.88E-11
433	420643	3733996	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.97E-13	2.04E-10	2.24E-11	7.67E-11	9.22E-14	9.92E-11
434	420652.7	3733995	2.68E-10	1.22E-09	2.68E-12	1.50E-09	3.67E-11	1.67E-10	3.99E-13	2.05E-10	2.25E-11	7.70E-11	9.26E-14	9.96E-11

435	420662.3	3733993	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.69E-11	1.68E-10	4.00E-13	2.05E-10	2.26E-11	7.73E-11	9.30E-14	1.00E-10
436	420672	3733991	2.70E-10	1.23E-09	2.70E-12	1.51E-09	3.70E-11	1.69E-10	4.02E-13	2.06E-10	2.27E-11	7.76E-11	9.33E-14	1.00E-10
437	420681.6	3733989	2.71E-10	1.24E-09	2.71E-12	1.51E-09	3.71E-11	1.69E-10	4.03E-13	2.07E-10	2.28E-11	7.78E-11	9.36E-14	1.01E-10
438	420691.3	3733988	2.72E-10	1.24E-09	2.72E-12	1.52E-09	3.72E-11	1.70E-10	4.04E-13	2.08E-10	2.29E-11	7.81E-11	9.39E-14	1.01E-10
439	420700.9	3733986	2.72E-10	1.25E-09	2.72E-12	1.52E-09	3.73E-11	1.70E-10	4.05E-13	2.08E-10	2.29E-11	7.83E-11	9.41E-14	1.01E-10
440	420710.6	3733984	2.73E-10	1.25E-09	2.73E-12	1.52E-09	3.74E-11	1.71E-10	4.06E-13	2.08E-10	2.30E-11	7.84E-11	9.43E-14	1.01E-10
441	420720.2	3733982	2.73E-10	1.25E-09	2.73E-12	1.53E-09	3.75E-11	1.71E-10	4.07E-13	2.09E-10	2.30E-11	7.85E-11	9.45E-14	1.02E-10
442	420729.9	3733981	2.74E-10	1.25E-09	2.73E-12	1.53E-09	3.75E-11	1.71E-10	4.07E-13	2.09E-10	2.30E-11	7.86E-11	9.46E-14	1.02E-10
443	420758.8	3733976	2.73E-10	1.25E-09	2.73E-12	1.53E-09	3.75E-11	1.71E-10	4.07E-13	2.09E-10	2.30E-11	7.85E-11	9.44E-14	1.02E-10
444	420768.5	3733974	2.73E-10	1.25E-09	2.73E-12	1.52E-09	3.74E-11	1.70E-10	4.06E-13	2.08E-10	2.29E-11	7.84E-11	9.42E-14	1.01E-10
445	420778.1	3733972	2.72E-10	1.24E-09	2.72E-12	1.52E-09	3.73E-11	1.70E-10	4.05E-13	2.08E-10	2.29E-11	7.82E-11	9.40E-14	1.01E-10
446	420787.8	3733970	2.71E-10	1.24E-09	2.71E-12	1.51E-09	3.72E-11	1.69E-10	4.04E-13	2.07E-10	2.28E-11	7.79E-11	9.37E-14	1.01E-10
447	420797.4	3733969	2.70E-10	1.23E-09	2.70E-12	1.51E-09	3.70E-11	1.69E-10	4.02E-13	2.06E-10	2.27E-11	7.76E-11	9.33E-14	1.00E-10
448	420807.1	3733967	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.69E-11	1.68E-10	4.00E-13	2.05E-10	2.26E-11	7.72E-11	9.29E-14	1.00E-10
449	420380.7	3734290	6.32E-10	2.89E-09	6.31E-12	3.53E-09	8.66E-11	3.95E-10	9.40E-13	4.83E-10	5.32E-11	1.82E-10	2.18E-13	2.35E-10
450	420380.7	3734300	6.40E-10	2.93E-09	6.39E-12	3.57E-09	8.77E-11	4.00E-10	9.52E-13	4.89E-10	5.38E-11	1.84E-10	2.21E-13	2.38E-10
451	420380.6	3734310	6.46E-10	2.95E-09	6.46E-12	3.61E-09	8.86E-11	4.04E-10	9.62E-13	4.94E-10	5.44E-11	1.86E-10	2.23E-13	2.40E-10
452	420380.6	3734320	6.51E-10	2.98E-09	6.51E-12	3.63E-09	8.93E-11	4.07E-10	9.69E-13	4.97E-10	5.48E-11	1.87E-10	2.25E-13	2.42E-10
453	420380.6	3734329	6.55E-10	2.99E-09	6.54E-12	3.65E-09	8.97E-11	4.09E-10	9.75E-13	5.00E-10	5.51E-11	1.88E-10	2.26E-13	2.43E-10
454	420380.5	3734339	6.57E-10	3.00E-09	6.56E-12	3.67E-09	9.00E-11	4.11E-10	9.78E-13	5.02E-10	5.52E-11	1.89E-10	2.27E-13	2.44E-10
455	420380.5	3734349	6.57E-10	3.01E-09	6.57E-12	3.67E-09	9.01E-11	4.11E-10	9.79E-13	5.02E-10	5.53E-11	1.89E-10	2.27E-13	2.44E-10
456	420358.2	3734255	5.29E-10	2.42E-09	5.29E-12	2.95E-09	7.26E-11	3.31E-10	7.88E-13	4.04E-10	4.45E-11	1.52E-10	1.83E-13	1.97E-10
457	420362.6	3734247	5.32E-10	2.43E-09	5.32E-12	2.97E-09	7.29E-11	3.33E-10	7.92E-13	4.06E-10	4.48E-11	1.53E-10	1.84E-13	1.98E-10
458	420366.9	3734238	5.33E-10	2.44E-09	5.33E-12	2.97E-09	7.31E-11	3.33E-10	7.93E-13	4.07E-10	4.48E-11	1.53E-10	1.84E-13	1.98E-10
459	420388.8	3734195	5.11E-10	2.34E-09	5.11E-12	2.85E-09	7.00E-11	3.19E-10	7.60E-13	3.90E-10	4.30E-11	1.47E-10	1.77E-13	1.90E-10
460	420393.2	3734186	5.02E-10	2.29E-09	5.01E-12	2.80E-09	6.88E-11	3.14E-10	7.47E-13	3.83E-10	4.22E-11	1.44E-10	1.73E-13	1.87E-10
461	420397.5	3734177	4.91E-10	2.25E-09	4.91E-12	2.74E-09	6.73E-11	3.07E-10	7.31E-13	3.75E-10	4.13E-11	1.41E-10	1.70E-13	1.83E-10
462	420401.9	3734169	4.80E-10	2.19E-09	4.79E-12	2.68E-09	6.58E-11	3.00E-10	7.14E-13	3.66E-10	4.04E-11	1.38E-10	1.66E-13	1.78E-10
463	420415	3734143	4.39E-10	2.01E-09	4.39E-12	2.45E-09	6.02E-11	2.75E-10	6.54E-13	3.36E-10	3.70E-11	1.26E-10	1.52E-13	1.63E-10
464	420419.4	3734134	4.25E-10	1.94E-09	4.25E-12	2.37E-09	5.82E-11	2.66E-10	6.33E-13	3.25E-10	3.57E-11	1.22E-10	1.47E-13	1.58E-10
465	420423.8	3734125	4.10E-10	1.88E-09	4.10E-12	2.29E-09	5.63E-11	2.57E-10	6.11E-13	3.13E-10	3.45E-11	1.18E-10	1.42E-13	1.53E-10
466	420428.1	3734117	3.96E-10	1.81E-09	3.96E-12	2.21E-09	5.43E-11	2.47E-10	5.89E-13	3.02E-10	3.33E-11	1.14E-10	1.37E-13	1.47E-10
467	420432.5	3734108	3.81E-10	1.74E-09	3.81E-12	2.13E-09	5.23E-11	2.38E-10	5.68E-13	2.91E-10	3.21E-11	1.10E-10	1.32E-13	1.42E-10
468	420436.9	3734099	3.67E-10	1.68E-09	3.67E-12	2.05E-09	5.03E-11	2.29E-10	5.46E-13	2.80E-10	3.09E-11	1.05E-10	1.27E-13	1.36E-10
469	420441.3	3734091	3.53E-10	1.61E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.25E-13	2.70E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
470	420445.6	3734082	3.39E-10	1.55E-09	3.39E-12	1.89E-09	4.65E-11	2.12E-10	5.05E-13	2.59E-10	2.86E-11	9.75E-11	1.17E-13	1.26E-10
471	420450	3734073	3.26E-10	1.49E-09	3.26E-12	1.82E-09	4.47E-11	2.04E-10	4.86E-13	2.49E-10	2.74E-11	9.37E-11	1.13E-13	1.21E-10
472	420454.4	3734065	3.13E-10	1.43E-09	3.13E-12	1.75E-09	4.30E-11	1.96E-10	4.67E-13	2.39E-10	2.64E-11	9.01E-11	1.08E-13	1.17E-10
473	420467.5	3734039	2.78E-10	1.27E-09	2.78E-12	1.55E-09	3.82E-11	1.74E-10	4.14E-13	2.13E-10	2.34E-11	8.00E-11	9.62E-14	1.04E-10
474	420471.9	3734030	2.68E-10	1.22E-09	2.68E-12	1.49E-09	3.67E-11	1.67E-10	3.99E-13	2.05E-10	2.25E-11	7.70E-11	9.25E-14	9.96E-11
475	420476.2	3734021	2.58E-10	1.18E-09	2.58E-12	1.44E-09	3.53E-11	1.61E-10	3.84E-13	1.97E-10	2.17E-11	7.41E-11	8.91E-14	9.58E-11
476	420480.6	3734013	2.48E-10	1.14E-09	2.48E-12	1.39E-09	3.40E-11	1.55E-10	3.70E-13	1.90E-10	2.09E-11	7.13E-11	8.58E-14	9.23E-11
477	420485	3734004	2.39E-10	1.09E-09	2.39E-12	1.34E-09	3.28E-11	1.50E-10	3.56E-13	1.83E-10	2.01E-11	6.87E-11	8.27E-14	8.89E-11
478	420489.3	3733995	2.31E-10	1.05E-09	2.31E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.63E-11	7.97E-14	8.58E-11
479	420512.8	3733983	2.22E-10	1.01E-09	2.22E-12	1.24E-09	3.04E-11	1.39E-10	3.30E-13	1.69E-10	1.87E-11	6.37E-11	7.67E-14	8.25E-11
480	420522.4	3733982	2.22E-10	1.01E-09	2.22E-12	1.24E-09	3.04E-11	1.39E-10	3.30E-13	1.69E-10	1.86E-11	6.37E-11	7.66E-14	8.24E-11
481	420531.9	3733980	2.21E-10	1.01E-09	2.21E-12	1.24E-09	3.04E-11	1.38E-10	3.30E-13	1.69E-10	1.86E-11	6.36E-11	7.65E-14	8.23E-11
482	420541.5	3733978	2.21E-10	1.01E-09	2.21E-12	1.24E-09	3.04E-11	1.38E-10	3.30E-13	1.69E-10	1.86E-11	6.36E-11	7.65E-14	8.23E-11
483	420551	3733976	2.22E-10	1.01E-09	2.21E-12	1.24E-09	3.04E-11	1.39E-10	3.30E-13	1.69E-10	1.86E-11	6.37E-11	7.66E-14	8.24E-11
484	420560.6	3733975	2.22E-10	1.01E-09	2.22E-12	1.24E-09	3.04E-11	1.39E-10	3.30E-13	1.69E-10	1.87E-11	6.37E-11	7.67E-14	8.25E-11
485	420570.1	3733973	2.22E-10	1.02E-09	2.22E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.39E-11	7.68E-14	8.26E-11
486	420579.7	3733971	2.23E-10	1.02E-09	2.23E-12	1.24E-09	3.05E-11	1.39E-10	3.32E-13	1.70E-10	1.87E-11	6.40E-11	7.70E-14	8.28E-11
487	420589.2	3733970	2.23E-10	1.02E-09	2.23E-12	1.25E-09	3.06E-11	1.40E-10	3.33E-13	1.71E-10	1.88E-11	6.42E-11	7.72E-14	8.31E-11
488	420598.8	3733968	2.24E-10	1.02E-09	2.24E-12	1.25E-09	3.07E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.44E-11	7.75E-14	8.33E-11
489	420608.3	3733966	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.08E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.46E-11	7.77E-14	8.36E-11
490	420637	3733961	2.28E-10	1.04E-09	2.27E-12	1.27E-09	3.12E-11	1.42E-10	3.39E-13	1.74E-10	1.91E-11	6.54E-11	7.86E-14	8.46E-11
491	420646.5	3733959	2.28E-10	1.04E-09	2.28E-12	1.28E-09	3.13E-11	1.43E-10	3.40E-13	1.74E-10	1.92E-11	6.56E-11	7.89E-14	8.49E-11
492	420656.1	3733958	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.14E-11	1.43E-10	3.41E-13	1.75E-10	1.93E-11	6.59E-11	7.92E-14	8.52E-11
493	420665.6	3733956	2.30E-10	1.05E-09	2.30E-12	1.28E-09	3.15E-11	1.44E-10	3.42E-13	1.76E-10	1.94E-11	6.61E-11	7.95E-14	8.55E-11
494	420675.2	3733954	2.31E-10	1.06E-09	2.31E-12	1.29E-09	3.17E-11	1.44E-10	3.44E-13	1.76E-10	1.94E-11	6.63E-11	7.98E-14	8.58E-11
495	420684.7	3733952	2.32E-10	1.06E-09	2.31E-12	1.29E-09	3.17E-11	1.45E-10	3.45E-13	1.77E-10	1.95E-11	6.66E-11	8.00E-14	8.61E-11
496	420694.3	3733951	2.32E-10	1.06E-09	2.32E-12	1.30E-09	3.18E-11	1.45E-10	3.46E-13	1.77E-10	1.95E-11	6.68E-11	8.03E-14	8.64E-11
497	420703.8	3733949	2.33E-10	1.06E-09	2.33E-12	1.30E-09	3.19E-11	1.46E-10	3.47E-13	1.78E-10	1.96E-11	6.69E-11	8.05E-14	8.66E-11
498	420340.7	3734290	5.03E-10	2.30E-09	5.02E-12	2.81E-09	6.89E-11	3.14E-10	7.48E-13	3.84E-10	4.23E-11	1.44E-10	1.74E-13	1.87E-10
499	420340.7	3734300	5.05E-10	2.31E-09	5.05E-12	2.82E-09	6.93E-11	3.16E-10	7.52E-13	3.86E-10	4.25E-11	1.45E-10	1.75E-13	1.88E-10
500	420340.6	3734310	5.07E-10	2.32E-09	5.07E-12	2.83E-09	6.95E-11	3.17E-10	7.55E-13	3.87E-10	4.27E-11	1.46E-10	1.75E-13	1.89E-10
501	420340.6	3734319	5.08E-10	2.32E-09	5.08E-12	2.84E-09	6.97E-11	3.18E-10	7.57E-13	3.88E-10	4.28E-11	1.46E-10	1.76E-13	1.89E-10
502	420340.6	3734329	5.09E-10	2.33E-09	5.08E-12	2.84E-09	6.97E-11	3.18E-10	7.57E-13	3.89E-10	4.28E-11	1.46E-10	1.76E-13	1.89E-10
503	420340.5	3734339	5.08E-10	2.32E-09	5.08E-12	2.84E-09	6.97E-11	3.18E-10	7.56E-13	3.88E-10	4.28E-11	1.46E-10	1.76E-13	1.89E-10
504	420340.5	3734349	5.07E-10	2.32E-09	5.07E-12	2.83E-09	6.95E-11	3.17E-10	7.54E-13	3.87E-10	4.26E-11	1.46E-10	1.75E-13	1.88E-10
505	420340.4	3734369	5.03E-10	2.30E-09	5.02E-12	2.81E-09	6.89E-11	3.14E-10	7.48E-13	3.84E-10	4.23E-11	1.44E-10	1.74E-13	1.87E-10
506	420318.1	3734255	4.33E-10	1.98E-09	4.33E-12	2.42E-09	5.94E-11	2.71E-10	6.45E-13	3.31E-10	3.64E-11	1.24E-10	1.50E-13	1.61E-10
507	420322.4	3734247	4.38E-10	2.00E-09	4.38E-12	2.45E-09	6.01E-11	2.74E-10	6.52E-13	3.35E-10	3.69E-11	1.26E-10	1.51E-13	1.63E-10

508	420326.7	3734238	4.42E-10	2.02E-09	4.42E-12	2.47E-09	6.06E-11	2.76E-10	6.58E-13	3.38E-10	3.72E-11	1.27E-10	1.53E-13	1.64E-10
509	420331.1	3734230	4.45E-10	2.03E-09	4.44E-12	2.48E-09	6.10E-11	2.78E-10	6.62E-13	3.40E-10	3.74E-11	1.28E-10	1.54E-13	1.65E-10
510	420335.4	3734221	4.46E-10	2.04E-09	4.46E-12	2.49E-09	6.11E-11	2.79E-10	6.64E-13	3.41E-10	3.75E-11	1.28E-10	1.54E-13	1.66E-10
511	420339.7	3734212	4.46E-10	2.04E-09	4.46E-12	2.49E-09	6.11E-11	2.79E-10	6.64E-13	3.41E-10	3.75E-11	1.28E-10	1.54E-13	1.66E-10
512	420344.1	3734204	4.45E-10	2.03E-09	4.45E-12	2.48E-09	6.10E-11	2.78E-10	6.62E-13	3.40E-10	3.74E-11	1.28E-10	1.54E-13	1.65E-10
513	420348.4	3734195	4.42E-10	2.02E-09	4.42E-12	2.47E-09	6.06E-11	2.77E-10	6.58E-13	3.38E-10	3.72E-11	1.27E-10	1.53E-13	1.64E-10
514	420352.7	3734187	4.39E-10	2.01E-09	4.38E-12	2.45E-09	6.01E-11	2.74E-10	6.53E-13	3.35E-10	3.69E-11	1.26E-10	1.52E-13	1.63E-10
515	420357.1	3734178	4.34E-10	1.98E-09	4.33E-12	2.42E-09	5.94E-11	2.71E-10	6.45E-13	3.31E-10	3.65E-11	1.25E-10	1.50E-13	1.61E-10
516	420361.4	3734169	4.27E-10	1.95E-09	4.27E-12	2.39E-09	5.86E-11	2.67E-10	6.36E-13	3.27E-10	3.60E-11	1.23E-10	1.48E-13	1.59E-10
517	420387.4	3734118	3.72E-10	1.70E-09	3.72E-12	2.08E-09	5.10E-11	2.33E-10	5.54E-13	2.84E-10	3.13E-11	1.07E-10	1.29E-13	1.38E-10
518	420391.8	3734109	3.61E-10	1.65E-09	3.61E-12	2.02E-09	4.95E-11	2.26E-10	5.38E-13	2.76E-10	3.04E-11	1.04E-10	1.25E-13	1.34E-10
519	420396.1	3734101	3.50E-10	1.60E-09	3.50E-12	1.96E-09	4.80E-11	2.19E-10	5.22E-13	2.68E-10	2.95E-11	1.01E-10	1.21E-13	1.30E-10
520	420400.4	3734092	3.39E-10	1.55E-09	3.39E-12	1.89E-09	4.65E-11	2.12E-10	5.05E-13	2.59E-10	2.85E-11	9.75E-11	1.17E-13	1.26E-10
521	420404.8	3734083	3.28E-10	1.50E-09	3.28E-12	1.83E-09	4.50E-11	2.05E-10	4.88E-13	2.51E-10	2.76E-11	9.42E-11	1.13E-13	1.22E-10
522	420409.1	3734075	3.17E-10	1.45E-09	3.17E-12	1.77E-09	4.34E-11	1.98E-10	4.72E-13	2.42E-10	2.67E-11	9.10E-11	1.09E-13	1.18E-10
523	420413.4	3734066	3.06E-10	1.40E-09	3.06E-12	1.71E-09	4.19E-11	1.91E-10	4.55E-13	2.34E-10	2.57E-11	8.79E-11	1.06E-13	1.14E-10
524	420426.5	3734040	2.74E-10	1.25E-09	2.74E-12	1.53E-09	3.76E-11	1.71E-10	4.08E-13	2.09E-10	2.31E-11	7.88E-11	9.47E-14	1.02E-10
525	420430.8	3734032	2.64E-10	1.21E-09	2.64E-12	1.48E-09	3.62E-11	1.65E-10	3.93E-13	2.02E-10	2.22E-11	7.59E-11	9.13E-14	9.83E-11
526	420435.1	3734023	2.55E-10	1.17E-09	2.55E-12	1.42E-09	3.49E-11	1.59E-10	3.79E-13	1.95E-10	2.14E-11	7.32E-11	8.81E-14	9.48E-11
527	420439.5	3734015	2.46E-10	1.12E-09	2.46E-12	1.37E-09	3.37E-11	1.54E-10	3.66E-13	1.88E-10	2.07E-11	7.06E-11	8.49E-14	9.14E-11
528	420443.8	3734006	2.37E-10	1.08E-09	2.37E-12	1.32E-09	3.25E-11	1.48E-10	3.53E-13	1.81E-10	1.99E-11	6.81E-11	8.19E-14	8.81E-11
529	420448.1	3733998	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.13E-11	1.43E-10	3.40E-13	1.75E-10	1.92E-11	6.57E-11	7.90E-14	8.50E-11
530	420452.5	3733989	2.21E-10	1.01E-09	2.21E-12	1.23E-09	3.03E-11	1.38E-10	3.28E-13	1.69E-10	1.86E-11	6.34E-11	7.63E-14	8.21E-11
531	420456.8	3733980	2.13E-10	9.75E-10	2.13E-12	1.19E-09	2.92E-11	1.33E-10	3.17E-13	1.63E-10	1.79E-11	6.13E-11	7.37E-14	7.93E-11
532	420461.1	3733972	2.06E-10	9.42E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.07E-13	1.57E-10	1.73E-11	5.92E-11	7.12E-14	7.66E-11
533	420465.5	3733963	1.99E-10	9.10E-10	1.99E-12	1.11E-09	2.73E-11	1.24E-10	2.96E-13	1.52E-10	1.68E-11	5.72E-11	6.88E-14	7.40E-11
534	420479.3	3733953	1.92E-10	8.79E-10	1.92E-12	1.07E-09	2.64E-11	1.20E-10	2.86E-13	1.47E-10	1.62E-11	5.52E-11	6.64E-14	7.15E-11
535	420488.8	3733951	1.92E-10	8.77E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.86E-13	1.47E-10	1.61E-11	5.51E-11	6.63E-14	7.13E-11
536	420630.9	3733926	1.97E-10	8.99E-10	1.96E-12	1.10E-09	2.69E-11	1.23E-10	2.93E-13	1.50E-10	1.65E-11	5.65E-11	6.79E-14	7.31E-11
537	420640.3	3733924	1.97E-10	9.02E-10	1.97E-12	1.10E-09	2.70E-11	1.23E-10	2.94E-13	1.51E-10	1.66E-11	5.67E-11	6.82E-14	7.34E-11
538	420649.8	3733922	1.98E-10	9.06E-10	1.98E-12	1.11E-09	2.72E-11	1.24E-10	2.95E-13	1.51E-10	1.67E-11	5.69E-11	6.85E-14	7.37E-11
539	420659.3	3733921	1.99E-10	9.09E-10	1.99E-12	1.11E-09	2.73E-11	1.24E-10	2.96E-13	1.52E-10	1.67E-11	5.72E-11	6.87E-14	7.40E-11
540	420668.8	3733919	2.00E-10	9.13E-10	1.99E-12	1.11E-09	2.74E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.74E-11	6.90E-14	7.42E-11
541	420678.2	3733917	2.00E-10	9.16E-10	2.00E-12	1.12E-09	2.75E-11	1.25E-10	2.98E-13	1.53E-10	1.69E-11	5.76E-11	6.92E-14	7.45E-11
542	420687.7	3733916	2.01E-10	9.18E-10	2.01E-12	1.12E-09	2.75E-11	1.26E-10	2.99E-13	1.53E-10	1.69E-11	5.77E-11	6.94E-14	7.47E-11
543	420697.2	3733914	2.01E-10	9.21E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.69E-11	5.79E-11	6.96E-14	7.49E-11
544	420706.7	3733912	2.02E-10	9.23E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.00E-13	1.54E-10	1.70E-11	5.80E-11	6.97E-14	7.50E-11
545	420716.1	3733910	2.02E-10	9.24E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.01E-13	1.54E-10	1.70E-11	5.81E-11	6.99E-14	7.52E-11
546	420725.6	3733909	2.02E-10	9.25E-10	2.02E-12	1.13E-09	2.77E-11	1.27E-10	3.01E-13	1.55E-10	1.70E-11	5.82E-11	6.99E-14	7.53E-11
547	420735.1	3733907	2.03E-10	9.26E-10	2.02E-12	1.13E-09	2.78E-11	1.27E-10	3.02E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.53E-11
548	420744.6	3733905	2.03E-10	9.27E-10	2.03E-12	1.13E-09	2.78E-11	1.27E-10	3.02E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.54E-11
549	420754	3733904	2.03E-10	9.26E-10	2.02E-12	1.13E-09	2.78E-11	1.27E-10	3.02E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.53E-11
550	420763.5	3733902	2.02E-10	9.26E-10	2.02E-12	1.13E-09	2.78E-11	1.27E-10	3.01E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.53E-11
551	420773	3733900	2.02E-10	9.24E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.01E-13	1.54E-10	1.70E-11	5.81E-11	6.99E-14	7.52E-11
552	420782.5	3733899	2.02E-10	9.23E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.00E-13	1.54E-10	1.70E-11	5.80E-11	6.97E-14	7.50E-11
553	420791.9	3733897	2.01E-10	9.21E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.70E-11	5.79E-11	6.96E-14	7.49E-11
554	420801.4	3733895	2.01E-10	9.19E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	2.99E-13	1.54E-10	1.69E-11	5.78E-11	6.95E-14	7.48E-11
555	420810.9	3733894	2.00E-10	9.17E-10	2.00E-12	1.12E-09	2.75E-11	1.25E-10	2.98E-13	1.53E-10	1.69E-11	5.76E-11	6.93E-14	7.45E-11
556	420820.4	3733892	2.00E-10	9.13E-10	2.00E-12	1.12E-09	2.74E-11	1.25E-10	2.97E-13	1.53E-10	1.68E-11	5.74E-11	6.90E-14	7.43E-11
557	420829.8	3733890	1.99E-10	9.10E-10	1.99E-12	1.11E-09	2.73E-11	1.24E-10	2.96E-13	1.52E-10	1.67E-11	5.72E-11	6.88E-14	7.40E-11
558	420300.5	3734339	4.01E-10	1.83E-09	4.01E-12	2.24E-09	5.50E-11	2.51E-10	5.97E-13	3.06E-10	3.37E-11	1.15E-10	1.39E-13	1.49E-10
559	420300.5	3734349	3.99E-10	1.83E-09	3.99E-12	2.23E-09	5.47E-11	2.50E-10	5.94E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.48E-10
560	420300.4	3734369	3.95E-10	1.81E-09	3.95E-12	2.21E-09	5.42E-11	2.47E-10	5.88E-13	3.02E-10	3.32E-11	1.14E-10	1.37E-13	1.47E-10
561	420278.4	3734255	3.57E-10	1.63E-09	3.56E-12	1.99E-09	4.89E-11	2.23E-10	5.31E-13	2.72E-10	3.00E-11	1.02E-10	1.23E-13	1.33E-10
562	420282.8	3734246	3.62E-10	1.66E-09	3.62E-12	2.02E-09	4.97E-11	2.26E-10	5.39E-13	2.77E-10	3.05E-11	1.04E-10	1.25E-13	1.35E-10
563	420287.2	3734237	3.67E-10	1.68E-09	3.67E-12	2.05E-09	5.03E-11	2.30E-10	5.47E-13	2.80E-10	3.09E-11	1.06E-10	1.27E-13	1.37E-10
564	420291.6	3734228	3.71E-10	1.70E-09	3.71E-12	2.07E-09	5.09E-11	2.32E-10	5.53E-13	2.84E-10	3.12E-11	1.07E-10	1.28E-13	1.38E-10
565	420296	3734220	3.75E-10	1.71E-09	3.75E-12	2.09E-09	5.14E-11	2.34E-10	5.58E-13	2.86E-10	3.15E-11	1.08E-10	1.29E-13	1.39E-10
566	420300.4	3734211	3.77E-10	1.72E-09	3.77E-12	2.10E-09	5.17E-11	2.36E-10	5.61E-13	2.88E-10	3.17E-11	1.08E-10	1.30E-13	1.40E-10
567	420304.8	3734202	3.78E-10	1.73E-09	3.78E-12	2.11E-09	5.19E-11	2.37E-10	5.63E-13	2.89E-10	3.18E-11	1.09E-10	1.31E-13	1.41E-10
568	420309.2	3734193	3.79E-10	1.73E-09	3.79E-12	2.11E-09	5.19E-11	2.37E-10	5.64E-13	2.89E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
569	420313.6	3734185	3.78E-10	1.73E-09	3.78E-12	2.11E-09	5.18E-11	2.36E-10	5.63E-13	2.89E-10	3.18E-11	1.09E-10	1.31E-13	1.41E-10
570	420318	3734176	3.76E-10	1.72E-09	3.76E-12	2.10E-09	5.16E-11	2.35E-10	5.60E-13	2.87E-10	3.17E-11	1.08E-10	1.30E-13	1.40E-10
571	420335.7	3734141	3.60E-10	1.65E-09	3.60E-12	2.01E-09	4.94E-11	2.25E-10	5.36E-13	2.75E-10	3.03E-11	1.03E-10	1.24E-13	1.34E-10
572	420340.1	3734132	3.54E-10	1.62E-09	3.54E-12	1.98E-09	4.85E-11	2.21E-10	5.27E-13	2.70E-10	2.98E-11	1.02E-10	1.22E-13	1.32E-10
573	420344.5	3734123	3.47E-10	1.59E-09	3.47E-12	1.94E-09	4.76E-11	2.17E-10	5.17E-13	2.65E-10	2.92E-11	9.98E-11	1.20E-13	1.29E-10
574	420348.9	3734115	3.40E-10	1.55E-09	3.40E-12	1.90E-09	4.66E-11	2.13E-10	5.06E-13	2.60E-10	2.86E-11	9.77E-11	1.17E-13	1.26E-10
575	420353.3	3734106	3.32E-10	1.52E-09	3.32E-12	1.85E-09	4.55E-11	2.08E-10	4.94E-13	2.54E-10	2.79E-11	9.54E-11	1.15E-13	1.24E-10
576	420357.7	3734097	3.24E-10	1.48E-09	3.24E-12	1.81E-09	4.44E-11	2.03E-10	4.82E-13	2.47E-10	2.73E-11	9.31E-11	1.12E-13	1.20E-10
577	420362.1	3734089	3.16E-10	1.44E-09	3.15E-12	1.76E-09	4.33E-11	1.97E-10	4.70E-13	2.41E-10	2.66E-11	9.07E-11	1.09E-13	1.17E-10
578	420366.5	3734080	3.07E-10	1.40E-09	3.07E-12	1.71E-09	4.21E-11	1.92E-10	4.57E-13	2.34E-10	2.58E-11	8.82E-11	1.06E-13	1.14E-10
579	420388.6	3734036	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.59E-11	1.64E-10	3.90E-13	2.00E-10	2.20E-11	7.52E-11	9.04E-14	9.73E-11
580	420393	3734027	2.53E-10	1.16E-09	2.53E-12	1.41E-09	3.47E-11	1.58E-10	3.76E-13	1.93E-10	2.13E-11	7.27E-11	8.74E-14	9.40E-11

581	420397.4	3734019	2.44E-10	1.12E-09	2.44E-12	1.36E-09	3.35E-11	1.53E-10	3.64E-13	1.87E-10	2.06E-11	7.02E-11	8.44E-14	9.08E-11
582	420401.8	3734010	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.23E-11	1.48E-10	3.51E-13	1.80E-10	1.99E-11	6.78E-11	8.16E-14	8.77E-11
583	420406.2	3734001	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.12E-11	1.42E-10	3.39E-13	1.74E-10	1.92E-11	6.55E-11	7.88E-14	8.47E-11
584	420410.6	3733992	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.32E-11	7.60E-14	8.18E-11
585	420415	3733984	2.13E-10	9.72E-10	2.12E-12	1.19E-09	2.91E-11	1.33E-10	3.16E-13	1.62E-10	1.79E-11	6.11E-11	7.35E-14	7.90E-11
586	420419.5	3733975	2.05E-10	9.39E-10	2.05E-12	1.15E-09	2.82E-11	1.28E-10	3.06E-13	1.57E-10	1.73E-11	5.90E-11	7.10E-14	7.64E-11
587	420423.9	3733966	1.98E-10	9.07E-10	1.98E-12	1.11E-09	2.72E-11	1.24E-10	2.95E-13	1.52E-10	1.67E-11	5.70E-11	6.86E-14	7.38E-11
588	420428.3	3733957	1.92E-10	8.77E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.86E-13	1.47E-10	1.61E-11	5.51E-11	6.63E-14	7.14E-11
589	420455.6	3733921	1.68E-10	7.68E-10	1.68E-12	9.38E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
590	420465.2	3733919	1.68E-10	7.66E-10	1.68E-12	9.36E-10	2.30E-11	1.05E-10	2.49E-13	1.28E-10	1.41E-11	4.82E-11	5.79E-14	6.23E-11
591	420474.8	3733917	1.67E-10	7.65E-10	1.67E-12	9.34E-10	2.29E-11	1.05E-10	2.49E-13	1.28E-10	1.41E-11	4.81E-11	5.78E-14	6.22E-11
592	420484.5	3733916	1.67E-10	7.63E-10	1.67E-12	9.32E-10	2.29E-11	1.04E-10	2.49E-13	1.28E-10	1.40E-11	4.80E-11	5.77E-14	6.21E-11
593	420494.1	3733914	1.67E-10	7.62E-10	1.67E-12	9.31E-10	2.29E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.20E-11
594	420503.7	3733912	1.67E-10	7.62E-10	1.67E-12	9.30E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.20E-11
595	420513.4	3733910	1.67E-10	7.62E-10	1.67E-12	9.30E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.19E-11
596	420523	3733909	1.67E-10	7.62E-10	1.67E-12	9.30E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.20E-11
597	420532.6	3733907	1.67E-10	7.63E-10	1.67E-12	9.31E-10	2.29E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.77E-14	6.20E-11
598	420542.3	3733905	1.67E-10	7.64E-10	1.67E-12	9.33E-10	2.29E-11	1.04E-10	2.49E-13	1.28E-10	1.41E-11	4.80E-11	5.77E-14	6.21E-11
599	420551.9	3733904	1.67E-10	7.65E-10	1.67E-12	9.34E-10	2.29E-11	1.05E-10	2.49E-13	1.28E-10	1.41E-11	4.81E-11	5.78E-14	6.22E-11
600	420561.5	3733902	1.68E-10	7.67E-10	1.68E-12	9.37E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.82E-11	5.80E-14	6.24E-11
601	420571.2	3733900	1.68E-10	7.69E-10	1.68E-12	9.39E-10	2.31E-11	1.05E-10	2.50E-13	1.29E-10	1.42E-11	4.83E-11	5.81E-14	6.26E-11
602	420580.8	3733898	1.69E-10	7.72E-10	1.69E-12	9.42E-10	2.31E-11	1.06E-10	2.51E-13	1.29E-10	1.42E-11	4.85E-11	5.83E-14	6.28E-11
603	420590.4	3733897	1.69E-10	7.74E-10	1.69E-12	9.45E-10	2.32E-11	1.06E-10	2.52E-13	1.29E-10	1.42E-11	4.87E-11	5.85E-14	6.30E-11
604	420600.1	3733895	1.70E-10	7.77E-10	1.70E-12	9.49E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.87E-14	6.32E-11
605	420638.6	3733888	1.73E-10	7.89E-10	1.73E-12	9.64E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.97E-14	6.42E-11
606	420648.3	3733886	1.73E-10	7.92E-10	1.73E-12	9.67E-10	2.38E-11	1.08E-10	2.58E-13	1.32E-10	1.46E-11	4.98E-11	5.99E-14	6.44E-11
607	420657.9	3733885	1.74E-10	7.95E-10	1.74E-12	9.71E-10	2.38E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	5.00E-11	6.01E-14	6.47E-11
608	420667.5	3733883	1.75E-10	7.98E-10	1.75E-12	9.75E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.03E-14	6.49E-11
609	420677.2	3733881	1.75E-10	8.01E-10	1.75E-12	9.78E-10	2.40E-11	1.10E-10	2.61E-13	1.34E-10	1.47E-11	5.03E-11	6.05E-14	6.51E-11
610	420686.8	3733879	1.76E-10	8.03E-10	1.76E-12	9.81E-10	2.41E-11	1.10E-10	2.62E-13	1.34E-10	1.48E-11	5.05E-11	6.07E-14	6.53E-11
611	420696.4	3733878	1.76E-10	8.05E-10	1.76E-12	9.83E-10	2.42E-11	1.10E-10	2.62E-13	1.35E-10	1.48E-11	5.06E-11	6.09E-14	6.55E-11
612	420706.1	3733876	1.77E-10	8.07E-10	1.76E-12	9.86E-10	2.42E-11	1.10E-10	2.63E-13	1.35E-10	1.49E-11	5.07E-11	6.10E-14	6.57E-11
613	420715.7	3733874	1.77E-10	8.09E-10	1.77E-12	9.87E-10	2.42E-11	1.11E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.11E-14	6.58E-11
614	420725.3	3733872	1.77E-10	8.10E-10	1.77E-12	9.89E-10	2.43E-11	1.11E-10	2.64E-13	1.35E-10	1.49E-11	5.09E-11	6.12E-14	6.59E-11
615	420735	3733871	1.77E-10	8.11E-10	1.77E-12	9.90E-10	2.43E-11	1.11E-10	2.64E-13	1.35E-10	1.49E-11	5.10E-11	6.13E-14	6.59E-11
616	420744.6	3733869	1.77E-10	8.11E-10	1.77E-12	9.90E-10	2.43E-11	1.11E-10	2.64E-13	1.35E-10	1.49E-11	5.10E-11	6.13E-14	6.60E-11
617	420754.2	3733867	1.77E-10	8.11E-10	1.77E-12	9.91E-10	2.43E-11	1.11E-10	2.64E-13	1.36E-10	1.49E-11	5.10E-11	6.13E-14	6.60E-11
618	420763.9	3733866	1.77E-10	8.11E-10	1.77E-12	9.91E-10	2.43E-11	1.11E-10	2.64E-13	1.36E-10	1.49E-11	5.10E-11	6.13E-14	6.60E-11
619	420773.5	3733864	1.77E-10	8.11E-10	1.77E-12	9.90E-10	2.43E-11	1.11E-10	2.64E-13	1.35E-10	1.49E-11	5.10E-11	6.13E-14	6.59E-11
620	420783.2	3733862	1.77E-10	8.10E-10	1.77E-12	9.89E-10	2.43E-11	1.11E-10	2.64E-13	1.35E-10	1.49E-11	5.09E-11	6.12E-14	6.59E-11
621	420792.8	3733860	1.77E-10	8.09E-10	1.77E-12	9.88E-10	2.43E-11	1.11E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.11E-14	6.58E-11
622	420802.4	3733859	1.77E-10	8.08E-10	1.77E-12	9.86E-10	2.42E-11	1.10E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.10E-14	6.57E-11
623	420812.1	3733857	1.76E-10	8.05E-10	1.76E-12	9.83E-10	2.42E-11	1.10E-10	2.62E-13	1.35E-10	1.48E-11	5.06E-11	6.09E-14	6.55E-11
624	420821.7	3733855	1.76E-10	8.03E-10	1.76E-12	9.81E-10	2.41E-11	1.10E-10	2.62E-13	1.34E-10	1.48E-11	5.05E-11	6.07E-14	6.53E-11
625	420831.3	3733854	1.75E-10	8.01E-10	1.75E-12	9.78E-10	2.40E-11	1.09E-10	2.61E-13	1.34E-10	1.47E-11	5.03E-11	6.05E-14	6.51E-11
626	420841	3733852	1.74E-10	7.97E-10	1.74E-12	9.74E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.01E-11	6.03E-14	6.49E-11
627	420260.7	3734290	3.29E-10	1.50E-09	3.29E-12	1.83E-09	4.51E-11	2.05E-10	4.89E-13	2.51E-10	2.77E-11	9.44E-11	1.14E-13	1.22E-10
628	420260.7	3734299	3.28E-10	1.50E-09	3.28E-12	1.83E-09	4.50E-11	2.05E-10	4.88E-13	2.51E-10	2.76E-11	9.43E-11	1.13E-13	1.22E-10
629	420260.6	3734309	3.27E-10	1.50E-09	3.27E-12	1.83E-09	4.48E-11	2.04E-10	4.87E-13	2.50E-10	2.75E-11	9.40E-11	1.13E-13	1.22E-10
630	420260.6	3734319	3.26E-10	1.49E-09	3.26E-12	1.82E-09	4.47E-11	2.04E-10	4.85E-13	2.49E-10	2.74E-11	9.36E-11	1.13E-13	1.21E-10
631	420260.6	3734329	3.24E-10	1.48E-09	3.24E-12	1.81E-09	4.45E-11	2.03E-10	4.83E-13	2.48E-10	2.73E-11	9.32E-11	1.12E-13	1.21E-10
632	420260.5	3734339	3.23E-10	1.48E-09	3.22E-12	1.80E-09	4.42E-11	2.02E-10	4.80E-13	2.46E-10	2.71E-11	9.27E-11	1.11E-13	1.20E-10
633	420260.5	3734349	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.40E-11	2.01E-10	4.78E-13	2.45E-10	2.70E-11	9.22E-11	1.11E-13	1.19E-10
634	420260.4	3734368	3.17E-10	1.45E-09	3.17E-12	1.77E-09	4.35E-11	1.98E-10	4.72E-13	2.42E-10	2.67E-11	9.11E-11	1.10E-13	1.18E-10
635	420238.2	3734255	2.95E-10	1.35E-09	2.95E-12	1.65E-09	4.05E-11	1.85E-10	4.40E-13	2.26E-10	2.48E-11	8.49E-11	1.02E-13	1.10E-10
636	420242.6	3734246	3.01E-10	1.38E-09	3.01E-12	1.68E-09	4.12E-11	1.88E-10	4.48E-13	2.30E-10	2.53E-11	8.64E-11	1.04E-13	1.12E-10
637	420247	3734237	3.06E-10	1.40E-09	3.06E-12	1.71E-09	4.19E-11	1.91E-10	4.55E-13	2.34E-10	2.57E-11	8.79E-11	1.06E-13	1.14E-10
638	420264.5	3734203	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.40E-11	2.01E-10	4.78E-13	2.45E-10	2.70E-11	9.23E-11	1.11E-13	1.19E-10
639	420268.9	3734194	3.23E-10	1.48E-09	3.23E-12	1.80E-09	4.43E-11	2.02E-10	4.81E-13	2.47E-10	2.72E-11	9.29E-11	1.12E-13	1.20E-10
640	420273.2	3734185	3.25E-10	1.48E-09	3.25E-12	1.81E-09	4.45E-11	2.03E-10	4.83E-13	2.48E-10	2.73E-11	9.33E-11	1.12E-13	1.21E-10
641	420277.6	3734177	3.25E-10	1.49E-09	3.25E-12	1.82E-09	4.46E-11	2.03E-10	4.84E-13	2.49E-10	2.74E-11	9.35E-11	1.12E-13	1.21E-10
642	420295.1	3734142	3.21E-10	1.47E-09	3.20E-12	1.79E-09	4.39E-11	2.00E-10	4.77E-13	2.45E-10	2.70E-11	9.21E-11	1.11E-13	1.19E-10
643	420299.5	3734133	3.17E-10	1.45E-09	3.17E-12	1.77E-09	4.35E-11	1.98E-10	4.73E-13	2.42E-10	2.67E-11	9.12E-11	1.10E-13	1.18E-10
644	420303.9	3734125	3.14E-10	1.43E-09	3.14E-12	1.75E-09	4.30E-11	1.96E-10	4.67E-13	2.40E-10	2.64E-11	9.02E-11	1.08E-13	1.17E-10
645	420308.2	3734116	3.10E-10	1.42E-09	3.09E-12	1.73E-09	4.24E-11	1.94E-10	4.61E-13	2.36E-10	2.60E-11	8.90E-11	1.07E-13	1.15E-10
646	420312.6	3734107	3.05E-10	1.39E-09	3.05E-12	1.70E-09	4.18E-11	1.91E-10	4.54E-13	2.33E-10	2.56E-11	8.76E-11	1.05E-13	1.13E-10
647	420317	3734099	3.00E-10	1.37E-09	2.99E-12	1.67E-09	4.11E-11	1.87E-10	4.46E-13	2.29E-10	2.52E-11	8.61E-11	1.04E-13	1.11E-10
648	420321.4	3734090	2.94E-10	1.34E-09	2.94E-12	1.64E-09	4.03E-11	1.84E-10	4.38E-13	2.25E-10	2.47E-11	8.45E-11	1.02E-13	1.09E-10
649	420325.7	3734081	2.88E-10	1.32E-09	2.88E-12	1.61E-09	3.95E-11	1.80E-10	4.29E-13	2.20E-10	2.42E-11	8.28E-11	9.95E-14	1.07E-10
650	420330.1	3734073	2.82E-10	1.29E-09	2.81E-12	1.57E-09	3.86E-11	1.76E-10	4.19E-13	2.15E-10	2.37E-11	8.09E-11	9.73E-14	1.05E-10
651	420334.5	3734064	2.75E-10	1.26E-09	2.75E-12	1.53E-09	3.77E-11	1.72E-10	4.09E-13	2.10E-10	2.31E-11	7.90E-11	9.50E-14	1.02E-10
652	420338.9	3734055	2.68E-10	1.22E-09	2.68E-12	1.50E-09	3.67E-11	1.67E-10	3.99E-13	2.05E-10	2.25E-11	7.70E-11	9.26E-14	9.96E-11
653	420347.6	3734038	2.53E-10	1.16E-09	2.53E-12	1.42E-09	3.47E-11	1.58E-10	3.77E-13	1.94E-10	2.13E-11	7.28E-11	8.76E-14	9.43E-11

654	420352	3734029	2.46E-10	1.13E-09	2.46E-12	1.37E-09	3.37E-11	1.54E-10	3.66E-13	1.88E-10	2.07E-11	7.07E-11	8.51E-14	9.15E-11
655	420356.4	3734020	2.39E-10	1.09E-09	2.39E-12	1.33E-09	3.27E-11	1.49E-10	3.55E-13	1.82E-10	2.01E-11	6.86E-11	8.25E-14	8.88E-11
656	420360.8	3734012	2.32E-10	1.06E-09	2.31E-12	1.29E-09	3.17E-11	1.45E-10	3.45E-13	1.77E-10	1.95E-11	6.65E-11	8.00E-14	8.61E-11
657	420365.1	3734003	2.24E-10	1.03E-09	2.24E-12	1.25E-09	3.08E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.45E-11	7.75E-14	8.34E-11
658	420387	3733960	1.91E-10	8.73E-10	1.91E-12	1.07E-09	2.62E-11	1.19E-10	2.84E-13	1.46E-10	1.61E-11	5.49E-11	6.60E-14	7.10E-11
659	420391.4	3733951	1.85E-10	8.45E-10	1.85E-12	1.03E-09	2.53E-11	1.16E-10	2.75E-13	1.41E-10	1.56E-11	5.31E-11	6.39E-14	6.87E-11
660	420404.5	3733925	1.68E-10	7.68E-10	1.68E-12	9.38E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
661	420408.9	3733916	1.63E-10	7.45E-10	1.63E-12	9.10E-10	2.23E-11	1.02E-10	2.43E-13	1.24E-10	1.37E-11	4.68E-11	5.63E-14	6.06E-11
662	420413.3	3733908	1.58E-10	7.23E-10	1.58E-12	8.82E-10	2.17E-11	9.88E-11	2.35E-13	1.21E-10	1.33E-11	4.54E-11	5.46E-14	5.88E-11
663	420417.6	3733899	1.53E-10	7.02E-10	1.53E-12	8.57E-10	2.10E-11	9.59E-11	2.28E-13	1.17E-10	1.29E-11	4.41E-11	5.30E-14	5.71E-11
664	420431.6	3733889	1.49E-10	6.79E-10	1.48E-12	8.29E-10	2.04E-11	9.29E-11	2.21E-13	1.13E-10	1.25E-11	4.27E-11	5.13E-14	5.52E-11
665	420441.1	3733887	1.48E-10	6.77E-10	1.48E-12	8.27E-10	2.03E-11	9.26E-11	2.20E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
666	420450.7	3733885	1.48E-10	6.75E-10	1.48E-12	8.24E-10	2.02E-11	9.23E-11	2.20E-13	1.13E-10	1.24E-11	4.24E-11	5.10E-14	5.49E-11
667	420460.3	3733884	1.47E-10	6.74E-10	1.47E-12	8.23E-10	2.02E-11	9.22E-11	2.19E-13	1.13E-10	1.24E-11	4.24E-11	5.09E-14	5.48E-11
668	420469.8	3733882	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.20E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.47E-11
669	420479.4	3733880	1.47E-10	6.72E-10	1.47E-12	8.20E-10	2.01E-11	9.19E-11	2.19E-13	1.12E-10	1.24E-11	4.22E-11	5.08E-14	5.46E-11
670	420489	3733878	1.47E-10	6.72E-10	1.47E-12	8.20E-10	2.01E-11	9.18E-11	2.19E-13	1.12E-10	1.24E-11	4.22E-11	5.08E-14	5.46E-11
671	420498.5	3733877	1.47E-10	6.72E-10	1.47E-12	8.20E-10	2.01E-11	9.18E-11	2.19E-13	1.12E-10	1.24E-11	4.22E-11	5.08E-14	5.46E-11
672	420508.1	3733875	1.47E-10	6.72E-10	1.47E-12	8.20E-10	2.01E-11	9.19E-11	2.19E-13	1.12E-10	1.24E-11	4.22E-11	5.08E-14	5.46E-11
673	420517.6	3733873	1.47E-10	6.72E-10	1.47E-12	8.21E-10	2.02E-11	9.19E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.08E-14	5.47E-11
674	420527.2	3733872	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.21E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.47E-11
675	420536.8	3733870	1.47E-10	6.74E-10	1.47E-12	8.23E-10	2.02E-11	9.22E-11	2.20E-13	1.13E-10	1.24E-11	4.24E-11	5.10E-14	5.48E-11
676	420546.3	3733868	1.48E-10	6.76E-10	1.48E-12	8.25E-10	2.03E-11	9.24E-11	2.20E-13	1.13E-10	1.24E-11	4.25E-11	5.11E-14	5.49E-11
677	420555.9	3733866	1.48E-10	6.77E-10	1.48E-12	8.27E-10	2.03E-11	9.26E-11	2.20E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
678	420565.5	3733865	1.49E-10	6.79E-10	1.48E-12	8.29E-10	2.04E-11	9.29E-11	2.21E-13	1.13E-10	1.25E-11	4.27E-11	5.13E-14	5.52E-11
679	420575	3733863	1.49E-10	6.81E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
680	420584.6	3733861	1.49E-10	6.83E-10	1.49E-12	8.34E-10	2.05E-11	9.34E-11	2.22E-13	1.14E-10	1.26E-11	4.29E-11	5.16E-14	5.56E-11
681	420594.1	3733860	1.50E-10	6.86E-10	1.50E-12	8.37E-10	2.06E-11	9.38E-11	2.23E-13	1.15E-10	1.26E-11	4.31E-11	5.18E-14	5.58E-11
682	420603.7	3733858	1.51E-10	6.88E-10	1.51E-12	8.41E-10	2.06E-11	9.41E-11	2.24E-13	1.15E-10	1.27E-11	4.33E-11	5.20E-14	5.60E-11
683	420747.1	3733832	1.57E-10	7.18E-10	1.57E-12	8.77E-10	2.15E-11	9.82E-11	2.34E-13	1.20E-10	1.32E-11	4.51E-11	5.43E-14	5.84E-11
684	420756.7	3733831	1.57E-10	7.19E-10	1.57E-12	8.77E-10	2.15E-11	9.83E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.43E-14	5.84E-11
685	420766.3	3733829	1.57E-10	7.19E-10	1.57E-12	8.78E-10	2.16E-11	9.83E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.43E-14	5.85E-11
686	420775.8	3733827	1.57E-10	7.19E-10	1.57E-12	8.77E-10	2.15E-11	9.83E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.43E-14	5.84E-11
687	420785.4	3733825	1.57E-10	7.18E-10	1.57E-12	8.77E-10	2.15E-11	9.82E-11	2.34E-13	1.20E-10	1.32E-11	4.51E-11	5.43E-14	5.84E-11
688	420795	3733824	1.57E-10	7.17E-10	1.57E-12	8.76E-10	2.15E-11	9.81E-11	2.34E-13	1.20E-10	1.32E-11	4.51E-11	5.42E-14	5.83E-11
689	420804.5	3733822	1.57E-10	7.16E-10	1.57E-12	8.74E-10	2.15E-11	9.79E-11	2.33E-13	1.20E-10	1.32E-11	4.50E-11	5.41E-14	5.82E-11
690	420814.1	3733820	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.77E-11	2.33E-13	1.19E-10	1.32E-11	4.49E-11	5.40E-14	5.81E-11
691	420823.6	3733819	1.56E-10	7.13E-10	1.56E-12	8.70E-10	2.14E-11	9.75E-11	2.32E-13	1.19E-10	1.31E-11	4.48E-11	5.39E-14	5.80E-11
692	420833.2	3733817	1.55E-10	7.11E-10	1.55E-12	8.68E-10	2.13E-11	9.72E-11	2.31E-13	1.19E-10	1.31E-11	4.47E-11	5.37E-14	5.78E-11
693	420842.8	3733815	1.55E-10	7.09E-10	1.55E-12	8.65E-10	2.12E-11	9.69E-11	2.31E-13	1.18E-10	1.30E-11	4.45E-11	5.36E-14	5.76E-11
694	420852.3	3733813	1.54E-10	7.06E-10	1.54E-12	8.62E-10	2.12E-11	9.65E-11	2.30E-13	1.18E-10	1.30E-11	4.44E-11	5.34E-14	5.74E-11
695	420220.7	3734289	2.71E-10	1.24E-09	2.71E-12	1.51E-09	3.71E-11	1.69E-10	4.03E-13	2.07E-10	2.28E-11	7.78E-11	9.36E-14	1.01E-10
696	420220.7	3734299	2.70E-10	1.23E-09	2.70E-12	1.51E-09	3.70E-11	1.69E-10	4.01E-13	2.06E-10	2.27E-11	7.75E-11	9.32E-14	1.00E-10
697	420220.6	3734309	2.68E-10	1.23E-09	2.68E-12	1.50E-09	3.68E-11	1.68E-10	4.00E-13	2.05E-10	2.26E-11	7.71E-11	9.28E-14	9.98E-11
698	420220.6	3734319	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.98E-13	2.04E-10	2.25E-11	7.68E-11	9.23E-14	9.93E-11
699	420220.6	3734329	2.66E-10	1.21E-09	2.66E-12	1.48E-09	3.64E-11	1.66E-10	3.96E-13	2.03E-10	2.24E-11	7.63E-11	9.18E-14	9.88E-11
700	420220.5	3734339	2.64E-10	1.21E-09	2.64E-12	1.47E-09	3.62E-11	1.65E-10	3.93E-13	2.02E-10	2.22E-11	7.59E-11	9.13E-14	9.82E-11
701	420220.5	3734349	2.63E-10	1.20E-09	2.62E-12	1.47E-09	3.60E-11	1.64E-10	3.91E-13	2.01E-10	2.21E-11	7.54E-11	9.07E-14	9.76E-11
702	420220.4	3734368	2.59E-10	1.19E-09	2.59E-12	1.45E-09	3.55E-11	1.62E-10	3.86E-13	1.98E-10	2.18E-11	7.45E-11	8.96E-14	9.64E-11
703	420198.5	3734254	2.47E-10	1.13E-09	2.47E-12	1.38E-09	3.39E-11	1.54E-10	3.68E-13	1.89E-10	2.08E-11	7.10E-11	8.54E-14	9.19E-11
704	420202.9	3734245	2.52E-10	1.15E-09	2.52E-12	1.41E-09	3.46E-11	1.58E-10	3.75E-13	1.93E-10	2.12E-11	7.25E-11	8.71E-14	9.38E-11
705	420207.3	3734236	2.57E-10	1.17E-09	2.57E-12	1.43E-09	3.52E-11	1.61E-10	3.82E-13	1.96E-10	2.16E-11	7.38E-11	8.88E-14	9.55E-11
706	420211.8	3734228	2.62E-10	1.20E-09	2.61E-12	1.46E-09	3.59E-11	1.64E-10	3.89E-13	2.00E-10	2.20E-11	7.51E-11	9.04E-14	9.72E-11
707	420216.2	3734219	2.66E-10	1.22E-09	2.66E-12	1.48E-09	3.64E-11	1.66E-10	3.96E-13	2.03E-10	2.24E-11	7.64E-11	9.19E-14	9.88E-11
708	420220.7	3734210	2.70E-10	1.23E-09	2.70E-12	1.51E-09	3.70E-11	1.69E-10	4.01E-13	2.06E-10	2.27E-11	7.75E-11	9.32E-14	1.00E-10
709	420225.1	3734201	2.73E-10	1.25E-09	2.73E-12	1.52E-09	3.74E-11	1.71E-10	4.07E-13	2.09E-10	2.30E-11	7.85E-11	9.44E-14	1.02E-10
710	420229.5	3734192	2.76E-10	1.26E-09	2.76E-12	1.54E-09	3.79E-11	1.73E-10	4.11E-13	2.11E-10	2.32E-11	7.94E-11	9.54E-14	1.03E-10
711	420234	3734184	2.79E-10	1.27E-09	2.79E-12	1.56E-09	3.82E-11	1.74E-10	4.15E-13	2.13E-10	2.34E-11	8.01E-11	9.63E-14	1.04E-10
712	420238.4	3734175	2.81E-10	1.28E-09	2.80E-12	1.57E-09	3.85E-11	1.75E-10	4.18E-13	2.14E-10	2.36E-11	8.06E-11	9.70E-14	1.04E-10
713	420265	3734122	2.80E-10	1.28E-09	2.80E-12	1.56E-09	3.84E-11	1.75E-10	4.17E-13	2.14E-10	2.35E-11	8.04E-11	9.67E-14	1.04E-10
714	420269.5	3734113	2.78E-10	1.27E-09	2.78E-12	1.55E-09	3.81E-11	1.74E-10	4.13E-13	2.12E-10	2.34E-11	7.98E-11	9.60E-14	1.03E-10
715	420273.9	3734105	2.75E-10	1.26E-09	2.75E-12	1.53E-09	3.77E-11	1.72E-10	4.09E-13	2.10E-10	2.31E-11	7.90E-11	9.50E-14	1.02E-10
716	420278.3	3734096	2.72E-10	1.24E-09	2.71E-12	1.52E-09	3.72E-11	1.70E-10	4.04E-13	2.07E-10	2.29E-11	7.81E-11	9.39E-14	1.01E-10
717	420282.8	3734087	2.68E-10	1.23E-09	2.68E-12	1.50E-09	3.67E-11	1.68E-10	3.99E-13	2.05E-10	2.25E-11	7.70E-11	9.26E-14	9.96E-11
718	420287.2	3734078	2.64E-10	1.21E-09	2.64E-12	1.47E-09	3.62E-11	1.65E-10	3.93E-13	2.01E-10	2.22E-11	7.58E-11	9.12E-14	9.81E-11
719	420291.6	3734069	2.59E-10	1.19E-09	2.59E-12	1.45E-09	3.55E-11	1.62E-10	3.86E-13	1.98E-10	2.18E-11	7.45E-11	8.96E-14	9.64E-11
720	420296.1	3734061	2.54E-10	1.16E-09	2.54E-12	1.42E-09	3.49E-11	1.59E-10	3.79E-13	1.94E-10	2.14E-11	7.31E-11	8.79E-14	9.46E-11
721	420309.4	3734034	2.38E-10	1.09E-09	2.38E-12	1.33E-09	3.26E-11	1.49E-10	3.55E-13	1.82E-10	2.00E-11	6.84E-11	8.23E-14	8.86E-11
722	420313.8	3734025	2.32E-10	1.06E-09	2.32E-12	1.30E-09	3.18E-11	1.45E-10	3.46E-13	1.77E-10	1.95E-11	6.68E-11	8.03E-14	8.64E-11
723	420318.3	3734017	2.26E-10	1.04E-09	2.26E-12	1.26E-09	3.10E-11	1.42E-10	3.37E-13	1.73E-10	1.90E-11	6.50E-11	7.82E-14	8.42E-11
724	420322.7	3734008	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.33E-11	7.61E-14	8.19E-11
725	420327.1	3733999	2.14E-10	9.79E-10	2.14E-12	1.20E-09	2.94E-11	1.34E-10	3.19E-13	1.64E-10	1.80E-11	6.16E-11	7.40E-14	7.97E-11
726	420331.6	3733990	2.08E-10	9.52E-10	2.08E-12	1.16E-09	2.85E-11	1.30E-10	3.10E-13	1.59E-10	1.75E-11	5.98E-11	7.19E-14	7.74E-11

727	420336	3733981	2.02E-10	9.24E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.01E-13	1.54E-10	1.70E-11	5.81E-11	6.98E-14	7.52E-11
728	420340.4	3733973	1.96E-10	8.97E-10	1.96E-12	1.10E-09	2.69E-11	1.23E-10	2.92E-13	1.50E-10	1.65E-11	5.64E-11	6.78E-14	7.29E-11
729	420344.9	3733964	1.90E-10	8.70E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.47E-11	6.58E-14	7.08E-11
730	420349.3	3733955	1.85E-10	8.44E-10	1.84E-12	1.03E-09	2.53E-11	1.15E-10	2.75E-13	1.41E-10	1.55E-11	5.30E-11	6.38E-14	6.86E-11
731	420362.6	3733929	1.68E-10	7.70E-10	1.68E-12	9.39E-10	2.31E-11	1.05E-10	2.51E-13	1.29E-10	1.42E-11	4.84E-11	5.82E-14	6.26E-11
732	420384.8	3733885	1.45E-10	6.62E-10	1.45E-12	8.09E-10	1.99E-11	9.06E-11	2.16E-13	1.11E-10	1.22E-11	4.16E-11	5.01E-14	5.39E-11
733	420389.3	3733876	1.41E-10	6.44E-10	1.41E-12	7.86E-10	1.93E-11	8.80E-11	2.10E-13	1.08E-10	1.18E-11	4.05E-11	4.86E-14	5.23E-11
734	420393.7	3733867	1.37E-10	6.26E-10	1.37E-12	7.64E-10	1.88E-11	8.56E-11	2.04E-13	1.05E-10	1.15E-11	3.93E-11	4.73E-14	5.09E-11
735	420407.8	3733857	1.33E-10	6.06E-10	1.33E-12	7.40E-10	1.82E-11	8.29E-11	1.97E-13	1.01E-10	1.12E-11	3.81E-11	4.58E-14	4.93E-11
736	420417.5	3733855	1.32E-10	6.04E-10	1.32E-12	7.38E-10	1.81E-11	8.27E-11	1.97E-13	1.01E-10	1.11E-11	3.80E-11	4.57E-14	4.92E-11
737	420427.2	3733853	1.32E-10	6.03E-10	1.32E-12	7.36E-10	1.81E-11	8.24E-11	1.96E-13	1.01E-10	1.11E-11	3.79E-11	4.55E-14	4.90E-11
738	420436.9	3733851	1.31E-10	6.01E-10	1.31E-12	7.34E-10	1.80E-11	8.22E-11	1.96E-13	1.00E-10	1.11E-11	3.78E-11	4.54E-14	4.89E-11
739	420446.6	3733850	1.31E-10	6.00E-10	1.31E-12	7.32E-10	1.80E-11	8.20E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.53E-14	4.88E-11
740	420456.3	3733848	1.31E-10	5.99E-10	1.31E-12	7.31E-10	1.79E-11	8.18E-11	1.95E-13	1.00E-10	1.10E-11	3.76E-11	4.52E-14	4.87E-11
741	420466	3733846	1.31E-10	5.98E-10	1.31E-12	7.30E-10	1.79E-11	8.18E-11	1.95E-13	9.99E-11	1.10E-11	3.76E-11	4.52E-14	4.86E-11
742	420475.7	3733844	1.31E-10	5.97E-10	1.31E-12	7.29E-10	1.79E-11	8.17E-11	1.95E-13	9.98E-11	1.10E-11	3.76E-11	4.52E-14	4.86E-11
743	420485.4	3733843	1.31E-10	5.97E-10	1.31E-12	7.29E-10	1.79E-11	8.17E-11	1.95E-13	9.98E-11	1.10E-11	3.76E-11	4.52E-14	4.86E-11
744	420495.1	3733841	1.31E-10	5.98E-10	1.31E-12	7.30E-10	1.79E-11	8.17E-11	1.95E-13	9.99E-11	1.10E-11	3.76E-11	4.52E-14	4.86E-11
745	420504.8	3733839	1.31E-10	5.98E-10	1.31E-12	7.30E-10	1.79E-11	8.18E-11	1.95E-13	9.99E-11	1.10E-11	3.76E-11	4.52E-14	4.86E-11
746	420514.5	3733838	1.31E-10	5.99E-10	1.31E-12	7.31E-10	1.80E-11	8.19E-11	1.95E-13	1.00E-10	1.10E-11	3.76E-11	4.53E-14	4.87E-11
747	420524.2	3733836	1.31E-10	6.00E-10	1.31E-12	7.32E-10	1.80E-11	8.20E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.53E-14	4.88E-11
748	420533.9	3733834	1.31E-10	6.01E-10	1.31E-12	7.34E-10	1.80E-11	8.22E-11	1.96E-13	1.00E-10	1.11E-11	3.78E-11	4.54E-14	4.89E-11
749	420543.6	3733832	1.32E-10	6.02E-10	1.32E-12	7.35E-10	1.81E-11	8.24E-11	1.96E-13	1.01E-10	1.11E-11	3.79E-11	4.55E-14	4.90E-11
750	420553.2	3733831	1.32E-10	6.04E-10	1.32E-12	7.37E-10	1.81E-11	8.26E-11	1.97E-13	1.01E-10	1.11E-11	3.80E-11	4.56E-14	4.91E-11
751	420562.9	3733829	1.32E-10	6.06E-10	1.32E-12	7.40E-10	1.82E-11	8.28E-11	1.97E-13	1.01E-10	1.11E-11	3.81E-11	4.58E-14	4.93E-11
752	420572.6	3733827	1.33E-10	6.08E-10	1.33E-12	7.42E-10	1.82E-11	8.31E-11	1.98E-13	1.02E-10	1.12E-11	3.82E-11	4.59E-14	4.94E-11
753	420582.3	3733825	1.33E-10	6.10E-10	1.33E-12	7.45E-10	1.83E-11	8.34E-11	1.99E-13	1.02E-10	1.12E-11	3.83E-11	4.61E-14	4.96E-11
754	420592	3733824	1.34E-10	6.12E-10	1.34E-12	7.47E-10	1.83E-11	8.37E-11	1.99E-13	1.02E-10	1.13E-11	3.85E-11	4.63E-14	4.98E-11
755	420601.7	3733822	1.34E-10	6.14E-10	1.34E-12	7.50E-10	1.84E-11	8.40E-11	2.00E-13	1.03E-10	1.13E-11	3.86E-11	4.64E-14	5.00E-11
756	420640.5	3733815	1.36E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.53E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.71E-14	5.07E-11
757	420650.2	3733813	1.37E-10	6.26E-10	1.37E-12	7.65E-10	1.88E-11	8.56E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.73E-14	5.09E-11
758	420659.9	3733811	1.37E-10	6.28E-10	1.37E-12	7.67E-10	1.88E-11	8.59E-11	2.05E-13	1.05E-10	1.16E-11	3.95E-11	4.75E-14	5.11E-11
759	420669.6	3733810	1.38E-10	6.30E-10	1.38E-12	7.70E-10	1.89E-11	8.62E-11	2.05E-13	1.05E-10	1.16E-11	3.96E-11	4.77E-14	5.13E-11
760	420679.3	3733808	1.38E-10	6.33E-10	1.38E-12	7.72E-10	1.90E-11	8.65E-11	2.06E-13	1.06E-10	1.16E-11	3.98E-11	4.78E-14	5.14E-11
761	420689	3733806	1.39E-10	6.35E-10	1.39E-12	7.75E-10	1.90E-11	8.68E-11	2.07E-13	1.06E-10	1.17E-11	3.99E-11	4.80E-14	5.16E-11
762	420698.7	3733805	1.39E-10	6.36E-10	1.39E-12	7.77E-10	1.91E-11	8.70E-11	2.07E-13	1.06E-10	1.17E-11	4.00E-11	4.81E-14	5.18E-11
763	420708.4	3733803	1.39E-10	6.38E-10	1.39E-12	7.79E-10	1.91E-11	8.72E-11	2.08E-13	1.07E-10	1.17E-11	4.01E-11	4.82E-14	5.19E-11
764	420718.1	3733801	1.40E-10	6.39E-10	1.40E-12	7.80E-10	1.92E-11	8.74E-11	2.08E-13	1.07E-10	1.18E-11	4.02E-11	4.83E-14	5.20E-11
765	420727.8	3733799	1.40E-10	6.40E-10	1.40E-12	7.82E-10	1.92E-11	8.76E-11	2.09E-13	1.07E-10	1.18E-11	4.02E-11	4.84E-14	5.21E-11
766	420737.5	3733798	1.40E-10	6.41E-10	1.40E-12	7.83E-10	1.92E-11	8.77E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.85E-14	5.21E-11
767	420747.2	3733796	1.40E-10	6.42E-10	1.40E-12	7.84E-10	1.92E-11	8.78E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.85E-14	5.22E-11
768	420756.8	3733794	1.41E-10	6.43E-10	1.40E-12	7.85E-10	1.93E-11	8.79E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
769	420766.5	3733792	1.41E-10	6.43E-10	1.41E-12	7.85E-10	1.93E-11	8.79E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
770	420776.2	3733791	1.41E-10	6.43E-10	1.40E-12	7.85E-10	1.93E-11	8.79E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
771	420785.9	3733789	1.40E-10	6.42E-10	1.40E-12	7.84E-10	1.93E-11	8.78E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.85E-14	5.22E-11
772	420795.6	3733787	1.40E-10	6.42E-10	1.40E-12	7.84E-10	1.92E-11	8.78E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.85E-14	5.22E-11
773	420805.3	3733785	1.40E-10	6.41E-10	1.40E-12	7.83E-10	1.92E-11	8.76E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.84E-14	5.21E-11
774	420815	3733784	1.40E-10	6.40E-10	1.40E-12	7.81E-10	1.92E-11	8.75E-11	2.08E-13	1.07E-10	1.18E-11	4.02E-11	4.84E-14	5.20E-11
775	420824.7	3733782	1.40E-10	6.39E-10	1.40E-12	7.80E-10	1.91E-11	8.73E-11	2.08E-13	1.07E-10	1.17E-11	4.01E-11	4.83E-14	5.19E-11
776	420834.4	3733780	1.39E-10	6.37E-10	1.39E-12	7.78E-10	1.91E-11	8.71E-11	2.07E-13	1.06E-10	1.17E-11	4.00E-11	4.82E-14	5.18E-11
777	420844.1	3733779	1.39E-10	6.35E-10	1.39E-12	7.76E-10	1.90E-11	8.69E-11	2.07E-13	1.06E-10	1.17E-11	3.99E-11	4.80E-14	5.17E-11
778	420853.8	3733777	1.39E-10	6.33E-10	1.38E-12	7.73E-10	1.90E-11	8.66E-11	2.06E-13	1.06E-10	1.17E-11	3.98E-11	4.79E-14	5.15E-11
779	420863.5	3733775	1.38E-10	6.31E-10	1.38E-12	7.71E-10	1.89E-11	8.63E-11	2.06E-13	1.05E-10	1.16E-11	3.97E-11	4.77E-14	5.13E-11
780	420180.7	3734289	2.26E-10	1.03E-09	2.26E-12	1.26E-09	3.10E-11	1.41E-10	3.36E-13	1.73E-10	1.90E-11	6.49E-11	7.81E-14	8.40E-11
781	420180.7	3734299	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.08E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.46E-11	7.77E-14	8.36E-11
782	420180.6	3734309	2.24E-10	1.02E-09	2.24E-12	1.25E-09	3.07E-11	1.40E-10	3.33E-13	1.71E-10	1.88E-11	6.43E-11	7.73E-14	8.32E-11
783	420180.6	3734319	2.22E-10	1.02E-09	2.22E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.39E-11	7.68E-14	8.27E-11
784	420180.6	3734329	2.21E-10	1.01E-09	2.21E-12	1.23E-09	3.03E-11	1.38E-10	3.29E-13	1.69E-10	1.86E-11	6.35E-11	7.64E-14	8.22E-11
785	420180.5	3734338	2.20E-10	1.00E-09	2.20E-12	1.23E-09	3.01E-11	1.37E-10	3.27E-13	1.68E-10	1.85E-11	6.32E-11	7.60E-14	8.17E-11
786	420180.5	3734348	2.18E-10	9.99E-10	2.18E-12	1.22E-09	2.99E-11	1.37E-10	3.25E-13	1.67E-10	1.84E-11	6.28E-11	7.55E-14	8.12E-11
787	420180.4	3734368	2.16E-10	9.86E-10	2.16E-12	1.20E-09	2.96E-11	1.35E-10	3.21E-13	1.65E-10	1.82E-11	6.20E-11	7.46E-14	8.02E-11
788	420158.3	3734254	2.09E-10	9.53E-10	2.08E-12	1.16E-09	2.86E-11	1.30E-10	3.10E-13	1.59E-10	1.75E-11	5.99E-11	7.21E-14	7.75E-11
789	420162.7	3734245	2.13E-10	9.73E-10	2.13E-12	1.19E-09	2.92E-11	1.33E-10	3.17E-13	1.63E-10	1.79E-11	6.12E-11	7.36E-14	7.91E-11
790	420167.2	3734237	2.17E-10	9.93E-10	2.17E-12	1.21E-09	2.98E-11	1.36E-10	3.23E-13	1.66E-10	1.83E-11	6.24E-11	7.51E-14	8.08E-11
791	420171.6	3734228	2.21E-10	1.01E-09	2.21E-12	1.24E-09	3.03E-11	1.38E-10	3.30E-13	1.69E-10	1.86E-11	6.36E-11	7.65E-14	8.23E-11
792	420176	3734219	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.09E-11	1.41E-10	3.35E-13	1.72E-10	1.90E-11	6.48E-11	7.79E-14	8.38E-11
793	420180.4	3734210	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.14E-11	1.43E-10	3.41E-13	1.75E-10	1.93E-11	6.58E-11	7.92E-14	8.52E-11
794	420184.8	3734202	2.33E-10	1.06E-09	2.33E-12	1.30E-09	3.19E-11	1.45E-10	3.46E-13	1.78E-10	1.96E-11	6.69E-11	8.04E-14	8.65E-11
795	420189.2	3734193	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.23E-11	1.48E-10	3.51E-13	1.80E-10	1.98E-11	6.78E-11	8.15E-14	8.77E-11
796	420193.6	3734184	2.39E-10	1.09E-09	2.39E-12	1.33E-09	3.27E-11	1.49E-10	3.56E-13	1.82E-10	2.01E-11	6.86E-11	8.25E-14	8.88E-11
797	420198	3734176	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.94E-11	8.34E-14	8.98E-11
798	420211.2	3734149	2.47E-10	1.13E-09	2.47E-12	1.38E-09	3.38E-11	1.54E-10	3.67E-13	1.89E-10	2.08E-11	7.09E-11	8.53E-14	9.18E-11
799	420215.6	3734141	2.48E-10	1.13E-09	2.48E-12	1.38E-09	3.40E-11	1.55E-10	3.69E-13	1.89E-10	2.08E-11	7.12E-11	8.56E-14	9.21E-11

800	420220	3734132	2.48E-10	1.13E-09	2.48E-12	1.39E-09	3.40E-11	1.55E-10	3.69E-13	1.90E-10	2.09E-11	7.13E-11	8.58E-14	9.23E-11
801	420224.4	3734123	2.48E-10	1.13E-09	2.48E-12	1.39E-09	3.40E-11	1.55E-10	3.69E-13	1.90E-10	2.09E-11	7.13E-11	8.58E-14	9.23E-11
802	420228.8	3734114	2.48E-10	1.13E-09	2.48E-12	1.38E-09	3.40E-11	1.55E-10	3.69E-13	1.89E-10	2.08E-11	7.12E-11	8.56E-14	9.21E-11
803	420233.2	3734106	2.47E-10	1.13E-09	2.47E-12	1.38E-09	3.38E-11	1.54E-10	3.67E-13	1.88E-10	2.08E-11	7.09E-11	8.52E-14	9.17E-11
804	420237.6	3734097	2.45E-10	1.12E-09	2.45E-12	1.37E-09	3.36E-11	1.53E-10	3.65E-13	1.87E-10	2.06E-11	7.05E-11	8.48E-14	9.12E-11
805	420242.1	3734088	2.43E-10	1.11E-09	2.43E-12	1.36E-09	3.34E-11	1.52E-10	3.62E-13	1.86E-10	2.05E-11	6.99E-11	8.41E-14	9.05E-11
806	420246.5	3734079	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.30E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.93E-11	8.33E-14	8.96E-11
807	420268.5	3734036	2.24E-10	1.03E-09	2.24E-12	1.25E-09	3.08E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.45E-11	7.75E-14	8.34E-11
808	420272.9	3734027	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.33E-11	7.61E-14	8.19E-11
809	420277.3	3734018	2.16E-10	9.87E-10	2.16E-12	1.20E-09	2.96E-11	1.35E-10	3.21E-13	1.65E-10	1.82E-11	6.20E-11	7.46E-14	8.02E-11
810	420281.7	3734010	2.11E-10	9.65E-10	2.11E-12	1.18E-09	2.89E-11	1.32E-10	3.14E-13	1.61E-10	1.78E-11	6.07E-11	7.30E-14	7.85E-11
811	420286.1	3734001	2.06E-10	9.44E-10	2.06E-12	1.15E-09	2.83E-11	1.29E-10	3.07E-13	1.58E-10	1.74E-11	5.93E-11	7.13E-14	7.68E-11
812	420290.5	3733992	2.02E-10	9.22E-10	2.01E-12	1.13E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.70E-11	5.79E-11	6.97E-14	7.50E-11
813	420294.9	3733983	1.97E-10	8.99E-10	1.97E-12	1.10E-09	2.70E-11	1.23E-10	2.93E-13	1.50E-10	1.65E-11	5.65E-11	6.80E-14	7.31E-11
814	420299.3	3733975	1.92E-10	8.77E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.51E-11	6.63E-14	7.13E-11
815	420303.7	3733966	1.87E-10	8.54E-10	1.87E-12	1.04E-09	2.56E-11	1.17E-10	2.78E-13	1.43E-10	1.57E-11	5.37E-11	6.45E-14	6.94E-11
816	420308.1	3733957	1.82E-10	8.31E-10	1.82E-12	1.01E-09	2.49E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.22E-11	6.28E-14	6.76E-11
817	420312.5	3733948	1.77E-10	8.08E-10	1.77E-12	9.87E-10	2.42E-11	1.11E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.11E-14	6.57E-11
818	420325.8	3733922	1.63E-10	7.43E-10	1.62E-12	9.07E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.67E-11	5.62E-14	6.04E-11
819	420330.2	3733914	1.58E-10	7.22E-10	1.58E-12	8.82E-10	2.17E-11	9.88E-11	2.35E-13	1.21E-10	1.33E-11	4.54E-11	5.46E-14	5.87E-11
820	420334.6	3733905	1.54E-10	7.02E-10	1.53E-12	8.57E-10	2.10E-11	9.60E-11	2.29E-13	1.17E-10	1.29E-11	4.41E-11	5.30E-14	5.71E-11
821	420339	3733896	1.49E-10	6.82E-10	1.49E-12	8.33E-10	2.04E-11	9.33E-11	2.22E-13	1.14E-10	1.25E-11	4.29E-11	5.15E-14	5.55E-11
822	420343.4	3733887	1.45E-10	6.63E-10	1.45E-12	8.09E-10	1.99E-11	9.07E-11	2.16E-13	1.11E-10	1.22E-11	4.17E-11	5.01E-14	5.39E-11
823	420347.8	3733879	1.41E-10	6.44E-10	1.41E-12	7.87E-10	1.93E-11	8.81E-11	2.10E-13	1.08E-10	1.19E-11	4.05E-11	4.87E-14	5.24E-11
824	420352.2	3733870	1.37E-10	6.26E-10	1.37E-12	7.65E-10	1.88E-11	8.57E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.73E-14	5.09E-11
825	420356.6	3733861	1.33E-10	6.09E-10	1.33E-12	7.44E-10	1.83E-11	8.33E-11	1.98E-13	1.02E-10	1.12E-11	3.83E-11	4.60E-14	4.95E-11
826	420361	3733852	1.30E-10	5.93E-10	1.30E-12	7.24E-10	1.78E-11	8.11E-11	1.93E-13	9.90E-11	1.09E-11	3.73E-11	4.48E-14	4.82E-11
827	420365.4	3733844	1.26E-10	5.77E-10	1.26E-12	7.05E-10	1.73E-11	7.89E-11	1.88E-13	9.64E-11	1.06E-11	3.63E-11	4.36E-14	4.69E-11
828	420383.9	3733825	1.19E-10	5.46E-10	1.19E-12	6.66E-10	1.64E-11	7.46E-11	1.78E-13	9.12E-11	1.00E-11	3.43E-11	4.12E-14	4.44E-11
829	420393.5	3733823	1.19E-10	5.44E-10	1.19E-12	6.64E-10	1.63E-11	7.44E-11	1.77E-13	9.08E-11	1.00E-11	3.42E-11	4.11E-14	4.42E-11
830	420403.1	3733821	1.19E-10	5.42E-10	1.19E-12	6.62E-10	1.63E-11	7.41E-11	1.77E-13	9.06E-11	9.98E-12	3.41E-11	4.10E-14	4.41E-11
831	420412.7	3733819	1.18E-10	5.41E-10	1.18E-12	6.60E-10	1.62E-11	7.40E-11	1.76E-13	9.03E-11	9.95E-12	3.40E-11	4.09E-14	4.40E-11
832	420422.4	3733818	1.18E-10	5.39E-10	1.18E-12	6.59E-10	1.62E-11	7.38E-11	1.76E-13	9.01E-11	9.93E-12	3.39E-11	4.08E-14	4.39E-11
833	420432	3733816	1.18E-10	5.38E-10	1.18E-12	6.57E-10	1.61E-11	7.36E-11	1.75E-13	8.99E-11	9.91E-12	3.38E-11	4.07E-14	4.38E-11
834	420441.6	3733814	1.18E-10	5.37E-10	1.17E-12	6.56E-10	1.61E-11	7.35E-11	1.75E-13	8.98E-11	9.89E-12	3.38E-11	4.06E-14	4.37E-11
835	420451.2	3733812	1.17E-10	5.37E-10	1.17E-12	6.55E-10	1.61E-11	7.34E-11	1.75E-13	8.97E-11	9.88E-12	3.37E-11	4.06E-14	4.37E-11
836	420460.9	3733811	1.17E-10	5.36E-10	1.17E-12	6.55E-10	1.61E-11	7.33E-11	1.75E-13	8.96E-11	9.87E-12	3.37E-11	4.05E-14	4.36E-11
837	420470.5	3733809	1.17E-10	5.36E-10	1.17E-12	6.54E-10	1.61E-11	7.33E-11	1.75E-13	8.95E-11	9.86E-12	3.37E-11	4.05E-14	4.36E-11
838	420480.1	3733807	1.17E-10	5.36E-10	1.17E-12	6.55E-10	1.61E-11	7.33E-11	1.75E-13	8.96E-11	9.87E-12	3.37E-11	4.05E-14	4.36E-11
839	420489.8	3733806	1.17E-10	5.37E-10	1.17E-12	6.55E-10	1.61E-11	7.34E-11	1.75E-13	8.96E-11	9.87E-12	3.37E-11	4.06E-14	4.36E-11
840	420499.4	3733804	1.17E-10	5.37E-10	1.17E-12	6.56E-10	1.61E-11	7.34E-11	1.75E-13	8.97E-11	9.88E-12	3.38E-11	4.06E-14	4.37E-11
841	420509	3733802	1.18E-10	5.38E-10	1.18E-12	6.56E-10	1.61E-11	7.35E-11	1.75E-13	8.98E-11	9.89E-12	3.38E-11	4.06E-14	4.37E-11
842	420518.6	3733800	1.18E-10	5.39E-10	1.18E-12	6.58E-10	1.62E-11	7.37E-11	1.75E-13	9.00E-11	9.91E-12	3.39E-11	4.07E-14	4.38E-11
843	420528.3	3733799	1.18E-10	5.40E-10	1.18E-12	6.59E-10	1.62E-11	7.38E-11	1.76E-13	9.02E-11	9.93E-12	3.39E-11	4.08E-14	4.39E-11
844	420537.9	3733797	1.18E-10	5.41E-10	1.18E-12	6.61E-10	1.62E-11	7.40E-11	1.76E-13	9.04E-11	9.96E-12	3.40E-11	4.09E-14	4.40E-11
845	420547.5	3733795	1.19E-10	5.42E-10	1.19E-12	6.62E-10	1.63E-11	7.42E-11	1.77E-13	9.06E-11	9.98E-12	3.41E-11	4.10E-14	4.41E-11
846	420557.2	3733794	1.19E-10	5.44E-10	1.19E-12	6.65E-10	1.63E-11	7.44E-11	1.77E-13	9.09E-11	1.00E-11	3.42E-11	4.11E-14	4.43E-11
847	420566.8	3733792	1.19E-10	5.46E-10	1.19E-12	6.67E-10	1.64E-11	7.47E-11	1.78E-13	9.12E-11	1.00E-11	3.43E-11	4.13E-14	4.44E-11
848	420576.4	3733790	1.20E-10	5.48E-10	1.20E-12	6.69E-10	1.64E-11	7.49E-11	1.78E-13	9.15E-11	1.01E-11	3.44E-11	4.14E-14	4.46E-11
849	420586	3733788	1.20E-10	5.50E-10	1.20E-12	6.71E-10	1.65E-11	7.52E-11	1.79E-13	9.19E-11	1.01E-11	3.46E-11	4.16E-14	4.47E-11
850	420595.7	3733787	1.21E-10	5.52E-10	1.21E-12	6.74E-10	1.66E-11	7.55E-11	1.80E-13	9.22E-11	1.02E-11	3.47E-11	4.17E-14	4.49E-11
851	420605.3	3733785	1.21E-10	5.54E-10	1.21E-12	6.77E-10	1.66E-11	7.58E-11	1.80E-13	9.26E-11	1.02E-11	3.48E-11	4.19E-14	4.51E-11
852	420634.2	3733780	1.23E-10	5.61E-10	1.23E-12	6.85E-10	1.68E-11	7.67E-11	1.83E-13	9.37E-11	1.03E-11	3.52E-11	4.24E-14	4.56E-11
853	420643.8	3733778	1.23E-10	5.63E-10	1.23E-12	6.87E-10	1.69E-11	7.69E-11	1.83E-13	9.40E-11	1.04E-11	3.54E-11	4.25E-14	4.58E-11
854	420653.4	3733776	1.24E-10	5.65E-10	1.23E-12	6.89E-10	1.69E-11	7.72E-11	1.84E-13	9.43E-11	1.04E-11	3.55E-11	4.27E-14	4.59E-11
855	420663.1	3733775	1.24E-10	5.66E-10	1.24E-12	6.91E-10	1.70E-11	7.74E-11	1.84E-13	9.46E-11	1.04E-11	3.56E-11	4.28E-14	4.61E-11
856	420672.7	3733773	1.24E-10	5.68E-10	1.24E-12	6.94E-10	1.70E-11	7.77E-11	1.85E-13	9.50E-11	1.05E-11	3.57E-11	4.30E-14	4.62E-11
857	420682.3	3733771	1.25E-10	5.70E-10	1.25E-12	6.96E-10	1.71E-11	7.80E-11	1.86E-13	9.52E-11	1.05E-11	3.58E-11	4.31E-14	4.64E-11
858	420691.9	3733769	1.25E-10	5.72E-10	1.25E-12	6.98E-10	1.71E-11	7.82E-11	1.86E-13	9.55E-11	1.05E-11	3.59E-11	4.32E-14	4.65E-11
859	420701.6	3733768	1.25E-10	5.73E-10	1.25E-12	7.00E-10	1.72E-11	7.84E-11	1.87E-13	9.58E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
860	420711.2	3733766	1.26E-10	5.74E-10	1.26E-12	7.01E-10	1.72E-11	7.85E-11	1.87E-13	9.60E-11	1.06E-11	3.61E-11	4.34E-14	4.67E-11
861	420720.8	3733764	1.26E-10	5.76E-10	1.26E-12	7.03E-10	1.73E-11	7.87E-11	1.87E-13	9.62E-11	1.06E-11	3.62E-11	4.35E-14	4.68E-11
862	420730.4	3733763	1.26E-10	5.77E-10	1.26E-12	7.04E-10	1.73E-11	7.89E-11	1.88E-13	9.64E-11	1.06E-11	3.63E-11	4.36E-14	4.69E-11
863	420740.1	3733761	1.26E-10	5.78E-10	1.26E-12	7.05E-10	1.73E-11	7.90E-11	1.88E-13	9.65E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
864	420749.7	3733759	1.27E-10	5.78E-10	1.26E-12	7.06E-10	1.73E-11	7.91E-11	1.88E-13	9.66E-11	1.06E-11	3.64E-11	4.37E-14	4.70E-11
865	420759.3	3733757	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.88E-13	9.67E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
866	420769	3733756	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.89E-13	9.68E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
867	420778.6	3733754	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.89E-13	9.68E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
868	420788.2	3733752	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.88E-13	9.67E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
869	420797.8	3733750	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.91E-11	1.88E-13	9.67E-11	1.06E-11	3.64E-11	4.37E-14	4.71E-11
870	420807.5	3733749	1.26E-10	5.78E-10	1.26E-12	7.06E-10	1.73E-11	7.91E-11	1.88E-13	9.66E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
871	420817.1	3733747	1.26E-10	5.78E-10	1.26E-12	7.05E-10	1.73E-11	7.90E-11	1.88E-13	9.65E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
872	420826.7	3733745	1.26E-10	5.77E-10	1.26E-12	7.04E-10	1.73E-11	7.88E-11	1.88E-13	9.63E-11	1.06E-11	3.62E-11	4.36E-14	4.69E-11

873	420836.3	3733744	1.26E-10	5.75E-10	1.26E-12	7.03E-10	1.73E-11	7.87E-11	1.87E-13	9.61E-11	1.06E-11	3.62E-11	4.35E-14	4.68E-11
874	420846	3733742	1.26E-10	5.74E-10	1.26E-12	7.01E-10	1.72E-11	7.85E-11	1.87E-13	9.59E-11	1.06E-11	3.61E-11	4.34E-14	4.67E-11
875	420855.6	3733740	1.25E-10	5.73E-10	1.25E-12	6.99E-10	1.72E-11	7.83E-11	1.86E-13	9.57E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
876	420865.2	3733738	1.25E-10	5.71E-10	1.25E-12	6.97E-10	1.71E-11	7.81E-11	1.86E-13	9.54E-11	1.05E-11	3.59E-11	4.32E-14	4.64E-11
877	420874.9	3733737	1.25E-10	5.69E-10	1.24E-12	6.95E-10	1.71E-11	7.78E-11	1.85E-13	9.51E-11	1.05E-11	3.58E-11	4.30E-14	4.63E-11
878	420140.7	3734289	1.91E-10	8.73E-10	1.91E-12	1.07E-09	2.62E-11	1.19E-10	2.84E-13	1.46E-10	1.61E-11	5.49E-11	6.60E-14	7.10E-11
879	420140.7	3734299	1.90E-10	8.68E-10	1.90E-12	1.06E-09	2.60E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.46E-11	6.56E-14	7.06E-11
880	420140.6	3734309	1.89E-10	8.63E-10	1.89E-12	1.05E-09	2.59E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.42E-11	6.52E-14	7.02E-11
881	420140.6	3734319	1.88E-10	8.58E-10	1.88E-12	1.05E-09	2.57E-11	1.17E-10	2.79E-13	1.43E-10	1.58E-11	5.39E-11	6.49E-14	6.98E-11
882	420140.6	3734328	1.87E-10	8.53E-10	1.87E-12	1.04E-09	2.56E-11	1.17E-10	2.78E-13	1.43E-10	1.57E-11	5.36E-11	6.45E-14	6.94E-11
883	420140.5	3734338	1.86E-10	8.48E-10	1.85E-12	1.04E-09	2.54E-11	1.16E-10	2.76E-13	1.42E-10	1.56E-11	5.33E-11	6.41E-14	6.90E-11
884	420140.5	3734348	1.84E-10	8.43E-10	1.84E-12	1.03E-09	2.53E-11	1.15E-10	2.75E-13	1.41E-10	1.55E-11	5.30E-11	6.37E-14	6.86E-11
885	420140.4	3734368	1.82E-10	8.33E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.24E-11	6.30E-14	6.78E-11
886	420118.2	3734254	1.78E-10	8.13E-10	1.78E-12	9.93E-10	2.44E-11	1.11E-10	2.65E-13	1.36E-10	1.50E-11	5.11E-11	6.14E-14	6.61E-11
887	420122.6	3734245	1.82E-10	8.30E-10	1.81E-12	1.01E-09	2.49E-11	1.13E-10	2.70E-13	1.39E-10	1.53E-11	5.22E-11	6.27E-14	6.75E-11
888	420127	3734237	1.85E-10	8.47E-10	1.85E-12	1.03E-09	2.54E-11	1.16E-10	2.76E-13	1.41E-10	1.56E-11	5.32E-11	6.40E-14	6.89E-11
889	420144.5	3734202	1.99E-10	9.11E-10	1.99E-12	1.11E-09	2.73E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.89E-14	7.41E-11
890	420148.9	3734193	2.02E-10	9.25E-10	2.02E-12	1.13E-09	2.77E-11	1.27E-10	3.01E-13	1.55E-10	1.70E-11	5.82E-11	6.99E-14	7.53E-11
891	420153.3	3734185	2.05E-10	9.39E-10	2.05E-12	1.15E-09	2.82E-11	1.28E-10	3.06E-13	1.57E-10	1.73E-11	5.90E-11	7.10E-14	7.64E-11
892	420157.6	3734176	2.08E-10	9.52E-10	2.08E-12	1.16E-09	2.85E-11	1.30E-10	3.10E-13	1.59E-10	1.75E-11	5.98E-11	7.19E-14	7.74E-11
893	420170.8	3734150	2.15E-10	9.83E-10	2.15E-12	1.20E-09	2.95E-11	1.34E-10	3.20E-13	1.64E-10	1.81E-11	6.18E-11	7.43E-14	7.99E-11
894	420175.2	3734141	2.17E-10	9.90E-10	2.16E-12	1.21E-09	2.97E-11	1.35E-10	3.22E-13	1.65E-10	1.82E-11	6.22E-11	7.48E-14	8.05E-11
895	420179.5	3734133	2.18E-10	9.96E-10	2.18E-12	1.22E-09	2.99E-11	1.36E-10	3.24E-13	1.66E-10	1.83E-11	6.26E-11	7.53E-14	8.10E-11
896	420183.9	3734124	2.19E-10	1.00E-09	2.19E-12	1.22E-09	3.00E-11	1.37E-10	3.26E-13	1.67E-10	1.84E-11	6.29E-11	7.56E-14	8.14E-11
897	420188.3	3734115	2.19E-10	1.00E-09	2.19E-12	1.22E-09	3.01E-11	1.37E-10	3.27E-13	1.68E-10	1.85E-11	6.30E-11	7.58E-14	8.16E-11
898	420192.7	3734107	2.20E-10	1.00E-09	2.19E-12	1.23E-09	3.01E-11	1.37E-10	3.27E-13	1.68E-10	1.85E-11	6.31E-11	7.59E-14	8.16E-11
899	420197.1	3734098	2.19E-10	1.00E-09	2.19E-12	1.22E-09	3.01E-11	1.37E-10	3.27E-13	1.68E-10	1.85E-11	6.31E-11	7.58E-14	8.16E-11
900	420201.4	3734089	2.19E-10	1.00E-09	2.19E-12	1.22E-09	3.00E-11	1.37E-10	3.26E-13	1.67E-10	1.84E-11	6.29E-11	7.56E-14	8.14E-11
901	420205.8	3734081	2.18E-10	9.97E-10	2.18E-12	1.22E-09	2.99E-11	1.36E-10	3.24E-13	1.66E-10	1.83E-11	6.26E-11	7.53E-14	8.10E-11
902	420210.2	3734072	2.17E-10	9.91E-10	2.17E-12	1.21E-09	2.97E-11	1.36E-10	3.23E-13	1.66E-10	1.82E-11	6.23E-11	7.49E-14	8.06E-11
903	420214.6	3734063	2.15E-10	9.83E-10	2.15E-12	1.20E-09	2.95E-11	1.34E-10	3.20E-13	1.64E-10	1.81E-11	6.18E-11	7.43E-14	8.00E-11
904	420232.1	3734028	2.06E-10	9.40E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.06E-13	1.57E-10	1.73E-11	5.91E-11	7.11E-14	7.65E-11
905	420236.5	3734020	2.03E-10	9.27E-10	2.03E-12	1.13E-09	2.78E-11	1.27E-10	3.02E-13	1.55E-10	1.71E-11	5.82E-11	7.00E-14	7.54E-11
906	420240.9	3734011	1.99E-10	9.12E-10	1.99E-12	1.11E-09	2.73E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.89E-14	7.42E-11
907	420245.2	3734002	1.96E-10	8.96E-10	1.96E-12	1.09E-09	2.69E-11	1.23E-10	2.92E-13	1.50E-10	1.65E-11	5.63E-11	6.78E-14	7.29E-11
908	420262.7	3733968	1.81E-10	8.27E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.20E-11	6.25E-14	6.73E-11
909	420267.1	3733959	1.77E-10	8.08E-10	1.77E-12	9.87E-10	2.42E-11	1.11E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.11E-14	6.57E-11
910	420271.5	3733950	1.73E-10	7.90E-10	1.73E-12	9.64E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.97E-14	6.42E-11
911	420284.6	3733924	1.60E-10	7.34E-10	1.60E-12	8.96E-10	2.20E-11	1.00E-10	2.39E-13	1.23E-10	1.35E-11	4.61E-11	5.54E-14	5.97E-11
912	420289	3733916	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.78E-11	2.33E-13	1.19E-10	1.32E-11	4.49E-11	5.40E-14	5.82E-11
913	420293.4	3733907	1.52E-10	6.97E-10	1.52E-12	8.50E-10	2.09E-11	9.52E-11	2.27E-13	1.16E-10	1.28E-11	4.38E-11	5.26E-14	5.66E-11
914	420297.8	3733898	1.48E-10	6.79E-10	1.48E-12	8.28E-10	2.03E-11	9.28E-11	2.21E-13	1.13E-10	1.25E-11	4.26E-11	5.13E-14	5.52E-11
915	420302.2	3733890	1.44E-10	6.61E-10	1.44E-12	8.06E-10	1.98E-11	9.03E-11	2.15E-13	1.10E-10	1.22E-11	4.15E-11	4.99E-14	5.37E-11
916	420306.5	3733881	1.41E-10	6.43E-10	1.41E-12	7.85E-10	1.93E-11	8.79E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
917	420310.9	3733872	1.37E-10	6.26E-10	1.37E-12	7.65E-10	1.88E-11	8.56E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.73E-14	5.09E-11
918	420315.3	3733864	1.33E-10	6.10E-10	1.33E-12	7.45E-10	1.83E-11	8.34E-11	1.99E-13	1.02E-10	1.12E-11	3.83E-11	4.61E-14	4.96E-11
919	420319.7	3733855	1.30E-10	5.94E-10	1.30E-12	7.25E-10	1.78E-11	8.12E-11	1.93E-13	9.92E-11	1.09E-11	3.73E-11	4.49E-14	4.83E-11
920	420324.1	3733846	1.26E-10	5.78E-10	1.26E-12	7.06E-10	1.73E-11	7.91E-11	1.88E-13	9.66E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
921	420328.4	3733838	1.23E-10	5.63E-10	1.23E-12	6.88E-10	1.69E-11	7.70E-11	1.83E-13	9.41E-11	1.04E-11	3.54E-11	4.26E-14	4.58E-11
922	420341.6	3733812	1.14E-10	5.22E-10	1.14E-12	6.37E-10	1.56E-11	7.13E-11	1.70E-13	8.71E-11	9.60E-12	3.28E-11	3.94E-14	4.24E-11
923	420346	3733803	1.11E-10	5.09E-10	1.11E-12	6.21E-10	1.52E-11	6.96E-11	1.66E-13	8.50E-11	9.36E-12	3.20E-11	3.84E-14	4.14E-11
924	420359.9	3733792	1.08E-10	4.95E-10	1.08E-12	6.04E-10	1.48E-11	6.76E-11	1.61E-13	8.26E-11	9.10E-12	3.11E-11	3.74E-14	4.02E-11
925	420388.6	3733787	1.07E-10	4.90E-10	1.07E-12	5.98E-10	1.47E-11	6.70E-11	1.60E-13	8.19E-11	9.02E-12	3.08E-11	3.70E-14	3.99E-11
926	420398.2	3733786	1.07E-10	4.89E-10	1.07E-12	5.97E-10	1.47E-11	6.68E-11	1.59E-13	8.16E-11	8.99E-12	3.07E-11	3.69E-14	3.97E-11
927	420407.7	3733784	1.07E-10	4.88E-10	1.07E-12	5.95E-10	1.46E-11	6.67E-11	1.59E-13	8.15E-11	8.97E-12	3.07E-11	3.69E-14	3.97E-11
928	420417.3	3733782	1.06E-10	4.87E-10	1.06E-12	5.94E-10	1.46E-11	6.65E-11	1.58E-13	8.13E-11	8.95E-12	3.06E-11	3.68E-14	3.96E-11
929	420426.9	3733780	1.06E-10	4.86E-10	1.06E-12	5.93E-10	1.46E-11	6.64E-11	1.58E-13	8.12E-11	8.94E-12	3.05E-11	3.67E-14	3.95E-11
930	420436.5	3733779	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.64E-11	1.58E-13	8.11E-11	8.93E-12	3.05E-11	3.67E-14	3.95E-11
931	420446	3733777	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.63E-11	1.58E-13	8.10E-11	8.92E-12	3.05E-11	3.67E-14	3.94E-11
932	420455.6	3733775	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.63E-11	1.58E-13	8.10E-11	8.92E-12	3.05E-11	3.66E-14	3.94E-11
933	420465.2	3733774	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.63E-11	1.58E-13	8.10E-11	8.92E-12	3.05E-11	3.66E-14	3.94E-11
934	420474.7	3733772	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.63E-11	1.58E-13	8.10E-11	8.92E-12	3.05E-11	3.67E-14	3.94E-11
935	420484.3	3733770	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.64E-11	1.58E-13	8.11E-11	8.93E-12	3.05E-11	3.67E-14	3.95E-11
936	420493.9	3733768	1.06E-10	4.86E-10	1.06E-12	5.93E-10	1.46E-11	6.64E-11	1.58E-13	8.12E-11	8.94E-12	3.05E-11	3.67E-14	3.95E-11
937	420503.4	3733767	1.06E-10	4.87E-10	1.06E-12	5.94E-10	1.46E-11	6.65E-11	1.58E-13	8.13E-11	8.95E-12	3.06E-11	3.68E-14	3.96E-11
938	420513	3733765	1.07E-10	4.88E-10	1.07E-12	5.95E-10	1.46E-11	6.67E-11	1.59E-13	8.15E-11	8.97E-12	3.07E-11	3.69E-14	3.97E-11
939	420522.6	3733763	1.07E-10	4.89E-10	1.07E-12	5.97E-10	1.47E-11	6.68E-11	1.59E-13	8.16E-11	8.99E-12	3.07E-11	3.69E-14	3.97E-11
940	420532.1	3733762	1.07E-10	4.90E-10	1.07E-12	5.98E-10	1.47E-11	6.70E-11	1.59E-13	8.18E-11	9.01E-12	3.08E-11	3.70E-14	3.98E-11
941	420541.7	3733760	1.07E-10	4.91E-10	1.07E-12	6.00E-10	1.47E-11	6.72E-11	1.60E-13	8.21E-11	9.04E-12	3.09E-11	3.71E-14	4.00E-11
942	420551.3	3733758	1.08E-10	4.93E-10	1.08E-12	6.02E-10	1.48E-11	6.74E-11	1.60E-13	8.23E-11	9.07E-12	3.10E-11	3.72E-14	4.01E-11
943	420560.9	3733757	1.08E-10	4.94E-10	1.08E-12	6.04E-10	1.48E-11	6.76E-11	1.61E-13	8.26E-11	9.10E-12	3.11E-11	3.74E-14	4.02E-11
944	420570.4	3733755	1.09E-10	4.96E-10	1.08E-12	6.06E-10	1.49E-11	6.79E-11	1.62E-13	8.29E-11	9.13E-12	3.12E-11	3.75E-14	4.04E-11
945	420580	3733753	1.09E-10	4.98E-10	1.09E-12	6.08E-10	1.49E-11	6.81E-11	1.62E-13	8.32E-11	9.17E-12	3.13E-11	3.77E-14	4.05E-11

946	420589.6	3733751	1.09E-10	5.00E-10	1.09E-12	6.11E-10	1.50E-11	6.84E-11	1.63E-13	8.35E-11	9.20E-12	3.14E-11	3.78E-14	4.07E-11
947	420599.1	3733750	1.10E-10	5.02E-10	1.10E-12	6.13E-10	1.50E-11	6.86E-11	1.63E-13	8.38E-11	9.24E-12	3.15E-11	3.79E-14	4.08E-11
948	420608.7	3733748	1.10E-10	5.04E-10	1.10E-12	6.15E-10	1.51E-11	6.89E-11	1.64E-13	8.42E-11	9.28E-12	3.17E-11	3.81E-14	4.10E-11
949	420618.3	3733746	1.11E-10	5.06E-10	1.11E-12	6.18E-10	1.52E-11	6.92E-11	1.65E-13	8.45E-11	9.31E-12	3.18E-11	3.82E-14	4.11E-11
950	420647	3733741	1.12E-10	5.11E-10	1.12E-12	6.24E-10	1.53E-11	6.99E-11	1.66E-13	8.54E-11	9.41E-12	3.21E-11	3.86E-14	4.16E-11
951	420656.5	3733739	1.12E-10	5.13E-10	1.12E-12	6.27E-10	1.54E-11	7.02E-11	1.67E-13	8.57E-11	9.44E-12	3.23E-11	3.88E-14	4.17E-11
952	420666.1	3733738	1.13E-10	5.15E-10	1.13E-12	6.29E-10	1.54E-11	7.04E-11	1.68E-13	8.60E-11	9.47E-12	3.24E-11	3.89E-14	4.19E-11
953	420675.7	3733736	1.13E-10	5.17E-10	1.13E-12	6.31E-10	1.55E-11	7.07E-11	1.68E-13	8.63E-11	9.51E-12	3.25E-11	3.91E-14	4.20E-11
954	420685.3	3733734	1.13E-10	5.18E-10	1.13E-12	6.32E-10	1.55E-11	7.08E-11	1.69E-13	8.65E-11	9.53E-12	3.26E-11	3.92E-14	4.21E-11
955	420694.8	3733733	1.14E-10	5.19E-10	1.14E-12	6.34E-10	1.56E-11	7.10E-11	1.69E-13	8.68E-11	9.56E-12	3.26E-11	3.93E-14	4.22E-11
956	420704.4	3733731	1.14E-10	5.21E-10	1.14E-12	6.36E-10	1.56E-11	7.12E-11	1.70E-13	8.70E-11	9.58E-12	3.27E-11	3.94E-14	4.23E-11
957	420714	3733729	1.14E-10	5.22E-10	1.14E-12	6.37E-10	1.56E-11	7.14E-11	1.70E-13	8.72E-11	9.60E-12	3.28E-11	3.94E-14	4.24E-11
958	420723.5	3733727	1.14E-10	5.23E-10	1.14E-12	6.38E-10	1.57E-11	7.15E-11	1.70E-13	8.73E-11	9.62E-12	3.29E-11	3.95E-14	4.25E-11
959	420733.1	3733726	1.15E-10	5.24E-10	1.15E-12	6.40E-10	1.57E-11	7.16E-11	1.71E-13	8.75E-11	9.64E-12	3.29E-11	3.96E-14	4.26E-11
960	420742.7	3733724	1.15E-10	5.25E-10	1.15E-12	6.41E-10	1.57E-11	7.18E-11	1.71E-13	8.77E-11	9.66E-12	3.30E-11	3.97E-14	4.27E-11
961	420752.2	3733722	1.15E-10	5.25E-10	1.15E-12	6.41E-10	1.57E-11	7.18E-11	1.71E-13	8.77E-11	9.67E-12	3.30E-11	3.97E-14	4.27E-11
962	420761.8	3733721	1.15E-10	5.26E-10	1.15E-12	6.42E-10	1.58E-11	7.19E-11	1.71E-13	8.78E-11	9.68E-12	3.30E-11	3.97E-14	4.28E-11
963	420771.4	3733719	1.15E-10	5.26E-10	1.15E-12	6.42E-10	1.58E-11	7.19E-11	1.71E-13	8.79E-11	9.68E-12	3.31E-11	3.98E-14	4.28E-11
964	420780.9	3733717	1.15E-10	5.26E-10	1.15E-12	6.43E-10	1.58E-11	7.20E-11	1.71E-13	8.79E-11	9.69E-12	3.31E-11	3.98E-14	4.28E-11
965	420790.5	3733715	1.15E-10	5.26E-10	1.15E-12	6.42E-10	1.58E-11	7.19E-11	1.71E-13	8.79E-11	9.68E-12	3.31E-11	3.98E-14	4.28E-11
966	420800.1	3733714	1.15E-10	5.26E-10	1.15E-12	6.42E-10	1.58E-11	7.19E-11	1.71E-13	8.79E-11	9.68E-12	3.31E-11	3.98E-14	4.28E-11
967	420809.7	3733712	1.15E-10	5.26E-10	1.15E-12	6.42E-10	1.58E-11	7.19E-11	1.71E-13	8.78E-11	9.68E-12	3.30E-11	3.97E-14	4.28E-11
968	420819.2	3733710	1.15E-10	5.25E-10	1.15E-12	6.41E-10	1.57E-11	7.18E-11	1.71E-13	8.77E-11	9.67E-12	3.30E-11	3.97E-14	4.27E-11
969	420828.8	3733709	1.15E-10	5.24E-10	1.15E-12	6.40E-10	1.57E-11	7.17E-11	1.71E-13	8.76E-11	9.65E-12	3.30E-11	3.96E-14	4.27E-11
970	420838.4	3733707	1.15E-10	5.24E-10	1.14E-12	6.39E-10	1.57E-11	7.16E-11	1.70E-13	8.75E-11	9.64E-12	3.29E-11	3.96E-14	4.26E-11
971	420847.9	3733705	1.14E-10	5.23E-10	1.14E-12	6.38E-10	1.57E-11	7.15E-11	1.70E-13	8.73E-11	9.62E-12	3.28E-11	3.95E-14	4.25E-11
972	420857.5	3733703	1.14E-10	5.22E-10	1.14E-12	6.37E-10	1.56E-11	7.13E-11	1.70E-13	8.71E-11	9.60E-12	3.28E-11	3.94E-14	4.24E-11
973	420867.1	3733702	1.14E-10	5.20E-10	1.14E-12	6.35E-10	1.56E-11	7.11E-11	1.69E-13	8.69E-11	9.57E-12	3.27E-11	3.93E-14	4.23E-11
974	420876.6	3733700	1.13E-10	5.19E-10	1.13E-12	6.33E-10	1.56E-11	7.09E-11	1.69E-13	8.67E-11	9.55E-12	3.26E-11	3.92E-14	4.22E-11
975	420886.2	3733698	1.13E-10	5.17E-10	1.13E-12	6.32E-10	1.55E-11	7.08E-11	1.68E-13	8.64E-11	9.52E-12	3.25E-11	3.91E-14	4.21E-11
976	420100.7	3734289	1.63E-10	7.46E-10	1.63E-12	9.11E-10	2.24E-11	1.02E-10	2.43E-13	1.25E-10	1.37E-11	4.69E-11	5.64E-14	6.07E-11
977	420100.7	3734299	1.62E-10	7.42E-10	1.62E-12	9.06E-10	2.22E-11	1.01E-10	2.42E-13	1.24E-10	1.37E-11	4.66E-11	5.61E-14	6.03E-11
978	420100.6	3734309	1.61E-10	7.38E-10	1.61E-12	9.01E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.64E-11	5.57E-14	6.00E-11
979	420100.6	3734318	1.60E-10	7.34E-10	1.60E-12	8.96E-10	2.20E-11	1.00E-10	2.39E-13	1.23E-10	1.35E-11	4.61E-11	5.54E-14	5.97E-11
980	420100.6	3734328	1.60E-10	7.29E-10	1.59E-12	8.90E-10	2.19E-11	9.97E-11	2.37E-13	1.22E-10	1.34E-11	4.58E-11	5.51E-14	5.93E-11
981	420100.5	3734338	1.59E-10	7.25E-10	1.59E-12	8.85E-10	2.17E-11	9.92E-11	2.36E-13	1.21E-10	1.33E-11	4.56E-11	5.48E-14	5.90E-11
982	420100.5	3734348	1.58E-10	7.21E-10	1.58E-12	8.81E-10	2.16E-11	9.86E-11	2.35E-13	1.20E-10	1.33E-11	4.53E-11	5.45E-14	5.87E-11
983	420100.4	3734368	1.56E-10	7.13E-10	1.56E-12	8.71E-10	2.14E-11	9.75E-11	2.32E-13	1.19E-10	1.31E-11	4.48E-11	5.39E-14	5.80E-11
984	420078.4	3734254	1.53E-10	7.01E-10	1.53E-12	8.55E-10	2.10E-11	9.58E-11	2.28E-13	1.17E-10	1.29E-11	4.40E-11	5.29E-14	5.70E-11
985	420082.9	3734245	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.78E-11	2.33E-13	1.19E-10	1.32E-11	4.50E-11	5.41E-14	5.82E-11
986	420087.3	3734236	1.60E-10	7.30E-10	1.60E-12	8.91E-10	2.19E-11	9.98E-11	2.38E-13	1.22E-10	1.34E-11	4.59E-11	5.52E-14	5.94E-11
987	420091.7	3734227	1.63E-10	7.45E-10	1.63E-12	9.09E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.68E-11	5.63E-14	6.06E-11
988	420096.1	3734218	1.66E-10	7.59E-10	1.66E-12	9.27E-10	2.28E-11	1.04E-10	2.47E-13	1.27E-10	1.40E-11	4.77E-11	5.74E-14	6.17E-11
989	420100.6	3734210	1.69E-10	7.73E-10	1.69E-12	9.44E-10	2.32E-11	1.06E-10	2.52E-13	1.29E-10	1.42E-11	4.86E-11	5.84E-14	6.29E-11
990	420105	3734201	1.72E-10	7.87E-10	1.72E-12	9.61E-10	2.36E-11	1.08E-10	2.56E-13	1.31E-10	1.45E-11	4.95E-11	5.95E-14	6.40E-11
991	420109.4	3734192	1.75E-10	8.01E-10	1.75E-12	9.78E-10	2.40E-11	1.09E-10	2.61E-13	1.34E-10	1.47E-11	5.03E-11	6.05E-14	6.51E-11
992	420113.9	3734183	1.78E-10	8.14E-10	1.78E-12	9.93E-10	2.44E-11	1.11E-10	2.65E-13	1.36E-10	1.50E-11	5.11E-11	6.15E-14	6.62E-11
993	420118.3	3734175	1.81E-10	8.26E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.19E-11	6.24E-14	6.72E-11
994	420144.9	3734122	1.93E-10	8.83E-10	1.93E-12	1.08E-09	2.65E-11	1.21E-10	2.87E-13	1.47E-10	1.62E-11	5.55E-11	6.67E-14	7.18E-11
995	420149.3	3734113	1.94E-10	8.88E-10	1.94E-12	1.08E-09	2.66E-11	1.21E-10	2.89E-13	1.48E-10	1.63E-11	5.58E-11	6.71E-14	7.22E-11
996	420153.7	3734104	1.95E-10	8.91E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.60E-11	6.74E-14	7.25E-11
997	420158.2	3734096	1.95E-10	8.94E-10	1.95E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.64E-11	5.62E-11	6.76E-14	7.27E-11
998	420162.6	3734087	1.96E-10	8.95E-10	1.96E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.65E-11	5.62E-11	6.76E-14	7.28E-11
999	420167	3734078	1.96E-10	8.95E-10	1.96E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.65E-11	5.62E-11	6.76E-14	7.28E-11
1000	420171.4	3734069	1.95E-10	8.93E-10	1.95E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.64E-11	5.61E-11	6.75E-14	7.26E-11
1001	420175.9	3734060	1.95E-10	8.90E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.59E-11	6.72E-14	7.24E-11
1002	420189.2	3734034	1.91E-10	8.73E-10	1.91E-12	1.07E-09	2.62E-11	1.19E-10	2.84E-13	1.46E-10	1.61E-11	5.48E-11	6.60E-14	7.10E-11
1003	420193.6	3734025	1.89E-10	8.65E-10	1.89E-12	1.06E-09	2.59E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.43E-11	6.53E-14	7.03E-11
1004	420198	3734017	1.87E-10	8.56E-10	1.87E-12	1.04E-09	2.57E-11	1.17E-10	2.79E-13	1.43E-10	1.57E-11	5.38E-11	6.47E-14	6.96E-11
1005	420202.4	3734008	1.85E-10	8.45E-10	1.85E-12	1.03E-09	2.53E-11	1.16E-10	2.75E-13	1.41E-10	1.56E-11	5.31E-11	6.39E-14	6.88E-11
1006	420206.9	3733999	1.82E-10	8.34E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.72E-13	1.39E-10	1.54E-11	5.24E-11	6.31E-14	6.78E-11
1007	420211.3	3733990	1.80E-10	8.22E-10	1.80E-12	1.00E-09	2.46E-11	1.12E-10	2.68E-13	1.37E-10	1.51E-11	5.17E-11	6.21E-14	6.69E-11
1008	420215.7	3733982	1.77E-10	8.09E-10	1.77E-12	9.88E-10	2.43E-11	1.11E-10	2.63E-13	1.35E-10	1.49E-11	5.09E-11	6.12E-14	6.58E-11
1009	420220.2	3733973	1.74E-10	7.96E-10	1.74E-12	9.71E-10	2.39E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	5.00E-11	6.01E-14	6.47E-11
1010	420224.6	3733964	1.71E-10	7.81E-10	1.71E-12	9.54E-10	2.34E-11	1.07E-10	2.54E-13	1.31E-10	1.44E-11	4.91E-11	5.91E-14	6.35E-11
1011	420229	3733955	1.68E-10	7.67E-10	1.68E-12	9.36E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.82E-11	5.80E-14	6.24E-11
1012	420260	3733894	1.44E-10	6.57E-10	1.44E-12	8.03E-10	1.97E-11	8.99E-11	2.14E-13	1.10E-10	1.21E-11	4.13E-11	4.97E-14	5.35E-11
1013	420264.4	3733885	1.40E-10	6.41E-10	1.40E-12	7.83E-10	1.92E-11	8.77E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.85E-14	5.22E-11
1014	420268.9	3733876	1.37E-10	6.26E-10	1.37E-12	7.64E-10	1.88E-11	8.56E-11	2.04E-13	1.05E-10	1.15E-11	3.93E-11	4.73E-14	5.09E-11
1015	420273.3	3733867	1.33E-10	6.10E-10	1.33E-12	7.45E-10	1.83E-11	8.34E-11	1.99E-13	1.02E-10	1.12E-11	3.83E-11	4.61E-14	4.96E-11
1016	420277.7	3733859	1.30E-10	5.95E-10	1.30E-12	7.27E-10	1.78E-11	8.14E-11	1.94E-13	9.94E-11	1.09E-11	3.74E-11	4.50E-14	4.84E-11
1017	420282.2	3733850	1.27E-10	5.80E-10	1.27E-12	7.08E-10	1.74E-11	7.93E-11	1.89E-13	9.69E-11	1.07E-11	3.65E-11	4.38E-14	4.72E-11
1018	420286.6	3733841	1.24E-10	5.66E-10	1.24E-12	6.90E-10	1.70E-11	7.73E-11	1.84E-13	9.45E-11	1.04E-11	3.55E-11	4.27E-14	4.60E-11

1019	420299.9	3733815	1.15E-10	5.24E-10	1.15E-12	6.40E-10	1.57E-11	7.17E-11	1.71E-13	8.76E-11	9.65E-12	3.29E-11	3.96E-14	4.26E-11
1020	420304.3	3733806	1.12E-10	5.11E-10	1.12E-12	6.24E-10	1.53E-11	6.99E-11	1.66E-13	8.54E-11	9.40E-12	3.21E-11	3.86E-14	4.16E-11
1021	420308.7	3733797	1.09E-10	4.99E-10	1.09E-12	6.09E-10	1.50E-11	6.82E-11	1.62E-13	8.33E-11	9.18E-12	3.13E-11	3.77E-14	4.06E-11
1022	420313.2	3733788	1.06E-10	4.87E-10	1.06E-12	5.94E-10	1.46E-11	6.65E-11	1.58E-13	8.13E-11	8.95E-12	3.06E-11	3.68E-14	3.96E-11
1023	420317.6	3733780	1.04E-10	4.75E-10	1.04E-12	5.80E-10	1.42E-11	6.50E-11	1.55E-13	7.94E-11	8.74E-12	2.99E-11	3.59E-14	3.86E-11
1024	420322	3733771	1.01E-10	4.64E-10	1.01E-12	5.66E-10	1.39E-11	6.34E-11	1.51E-13	7.75E-11	8.53E-12	2.91E-11	3.51E-14	3.77E-11
1025	420336.1	3733760	9.87E-11	4.51E-10	9.87E-13	5.51E-10	1.35E-11	6.17E-11	1.47E-13	7.54E-11	8.31E-12	2.84E-11	3.41E-14	3.67E-11
1026	420345.8	3733759	9.84E-11	4.50E-10	9.83E-13	5.49E-10	1.35E-11	6.15E-11	1.46E-13	7.51E-11	8.28E-12	2.83E-11	3.40E-14	3.66E-11
1027	420355.5	3733757	9.81E-11	4.49E-10	9.80E-13	5.48E-10	1.34E-11	6.13E-11	1.46E-13	7.49E-11	8.25E-12	2.82E-11	3.39E-14	3.65E-11
1028	420365.1	3733755	9.78E-11	4.47E-10	9.78E-13	5.46E-10	1.34E-11	6.11E-11	1.46E-13	7.47E-11	8.23E-12	2.81E-11	3.38E-14	3.64E-11
1029	420384.5	3733752	9.73E-11	4.45E-10	9.72E-13	5.43E-10	1.33E-11	6.08E-11	1.45E-13	7.43E-11	8.18E-12	2.80E-11	3.36E-14	3.62E-11
1030	420394.2	3733750	9.70E-11	4.44E-10	9.70E-13	5.42E-10	1.33E-11	6.07E-11	1.44E-13	7.41E-11	8.16E-12	2.79E-11	3.35E-14	3.61E-11
1031	420403.9	3733748	9.69E-11	4.43E-10	9.68E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.40E-11	8.15E-12	2.78E-11	3.35E-14	3.60E-11
1032	420413.5	3733747	9.67E-11	4.42E-10	9.67E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.34E-14	3.60E-11
1033	420423.2	3733745	9.66E-11	4.42E-10	9.66E-13	5.39E-10	1.32E-11	6.04E-11	1.44E-13	7.38E-11	8.13E-12	2.78E-11	3.34E-14	3.59E-11
1034	420432.9	3733743	9.66E-11	4.42E-10	9.65E-13	5.39E-10	1.32E-11	6.04E-11	1.44E-13	7.38E-11	8.12E-12	2.77E-11	3.34E-14	3.59E-11
1035	420442.6	3733741	9.65E-11	4.41E-10	9.65E-13	5.39E-10	1.32E-11	6.03E-11	1.44E-13	7.37E-11	8.12E-12	2.77E-11	3.34E-14	3.59E-11
1036	420452.2	3733740	9.65E-11	4.41E-10	9.65E-13	5.39E-10	1.32E-11	6.03E-11	1.44E-13	7.37E-11	8.12E-12	2.77E-11	3.34E-14	3.59E-11
1037	420461.9	3733738	9.66E-11	4.42E-10	9.65E-13	5.39E-10	1.32E-11	6.04E-11	1.44E-13	7.38E-11	8.12E-12	2.77E-11	3.34E-14	3.59E-11
1038	420471.6	3733736	9.66E-11	4.42E-10	9.66E-13	5.39E-10	1.32E-11	6.04E-11	1.44E-13	7.38E-11	8.13E-12	2.78E-11	3.34E-14	3.59E-11
1039	420481.3	3733734	9.67E-11	4.42E-10	9.67E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.34E-14	3.60E-11
1040	420491	3733733	9.69E-11	4.43E-10	9.68E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.40E-11	8.15E-12	2.78E-11	3.35E-14	3.60E-11
1041	420500.6	3733731	9.71E-11	4.44E-10	9.70E-13	5.42E-10	1.33E-11	6.07E-11	1.45E-13	7.42E-11	8.17E-12	2.79E-11	3.36E-14	3.61E-11
1042	420510.3	3733729	9.73E-11	4.45E-10	9.72E-13	5.43E-10	1.33E-11	6.08E-11	1.45E-13	7.43E-11	8.18E-12	2.80E-11	3.36E-14	3.62E-11
1043	420520	3733727	9.75E-11	4.46E-10	9.75E-13	5.44E-10	1.34E-11	6.10E-11	1.45E-13	7.45E-11	8.20E-12	2.80E-11	3.37E-14	3.63E-11
1044	420529.7	3733726	9.78E-11	4.47E-10	9.78E-13	5.46E-10	1.34E-11	6.11E-11	1.46E-13	7.47E-11	8.23E-12	2.81E-11	3.38E-14	3.64E-11
1045	420539.3	3733724	9.81E-11	4.49E-10	9.80E-13	5.48E-10	1.34E-11	6.13E-11	1.46E-13	7.49E-11	8.25E-12	2.82E-11	3.39E-14	3.65E-11
1046	420549	3733722	9.84E-11	4.50E-10	9.84E-13	5.50E-10	1.35E-11	6.15E-11	1.47E-13	7.52E-11	8.28E-12	2.83E-11	3.40E-14	3.66E-11
1047	420558.7	3733721	9.88E-11	4.52E-10	9.87E-13	5.52E-10	1.35E-11	6.18E-11	1.47E-13	7.55E-11	8.31E-12	2.84E-11	3.41E-14	3.67E-11
1048	420568.4	3733719	9.92E-11	4.53E-10	9.91E-13	5.53E-10	1.36E-11	6.20E-11	1.48E-13	7.57E-11	8.34E-12	2.85E-11	3.43E-14	3.69E-11
1049	420578	3733717	9.96E-11	4.55E-10	9.95E-13	5.56E-10	1.36E-11	6.22E-11	1.48E-13	7.60E-11	8.38E-12	2.86E-11	3.44E-14	3.70E-11
1050	420587.7	3733715	9.99E-11	4.57E-10	9.99E-13	5.58E-10	1.37E-11	6.25E-11	1.49E-13	7.63E-11	8.41E-12	2.87E-11	3.45E-14	3.72E-11
1051	420597.4	3733714	1.00E-10	4.59E-10	1.00E-12	5.60E-10	1.38E-11	6.27E-11	1.49E-13	7.66E-11	8.44E-12	2.88E-11	3.47E-14	3.73E-11
1052	420607.1	3733712	1.01E-10	4.61E-10	1.01E-12	5.62E-10	1.38E-11	6.30E-11	1.50E-13	7.69E-11	8.48E-12	2.89E-11	3.48E-14	3.75E-11
1053	420616.8	3733710	1.01E-10	4.62E-10	1.01E-12	5.65E-10	1.39E-11	6.32E-11	1.51E-13	7.73E-11	8.51E-12	2.91E-11	3.50E-14	3.76E-11
1054	420626.4	3733708	1.02E-10	4.64E-10	1.01E-12	5.67E-10	1.39E-11	6.35E-11	1.51E-13	7.75E-11	8.54E-12	2.92E-11	3.51E-14	3.77E-11
1055	420665.1	3733702	1.03E-10	4.71E-10	1.03E-12	5.74E-10	1.41E-11	6.43E-11	1.53E-13	7.86E-11	8.66E-12	2.96E-11	3.56E-14	3.83E-11
1056	420674.8	3733700	1.03E-10	4.72E-10	1.03E-12	5.76E-10	1.42E-11	6.46E-11	1.54E-13	7.89E-11	8.69E-12	2.97E-11	3.57E-14	3.84E-11
1057	420684.5	3733698	1.04E-10	4.73E-10	1.04E-12	5.78E-10	1.42E-11	6.47E-11	1.54E-13	7.91E-11	8.71E-12	2.98E-11	3.58E-14	3.85E-11
1058	420694.2	3733696	1.04E-10	4.75E-10	1.04E-12	5.80E-10	1.42E-11	6.49E-11	1.55E-13	7.93E-11	8.74E-12	2.98E-11	3.59E-14	3.86E-11
1059	420703.9	3733695	1.04E-10	4.76E-10	1.04E-12	5.81E-10	1.43E-11	6.51E-11	1.55E-13	7.95E-11	8.76E-12	2.99E-11	3.60E-14	3.87E-11
1060	420713.5	3733693	1.04E-10	4.77E-10	1.04E-12	5.82E-10	1.43E-11	6.52E-11	1.55E-13	7.97E-11	8.78E-12	3.00E-11	3.60E-14	3.88E-11
1061	420723.2	3733691	1.05E-10	4.78E-10	1.05E-12	5.84E-10	1.43E-11	6.54E-11	1.56E-13	7.99E-11	8.80E-12	3.00E-11	3.61E-14	3.89E-11
1062	420732.9	3733689	1.05E-10	4.79E-10	1.05E-12	5.85E-10	1.44E-11	6.55E-11	1.56E-13	8.00E-11	8.81E-12	3.01E-11	3.62E-14	3.89E-11
1063	420742.6	3733688	1.05E-10	4.80E-10	1.05E-12	5.86E-10	1.44E-11	6.56E-11	1.56E-13	8.01E-11	8.83E-12	3.01E-11	3.63E-14	3.90E-11
1064	420752.2	3733686	1.05E-10	4.80E-10	1.05E-12	5.87E-10	1.44E-11	6.57E-11	1.56E-13	8.03E-11	8.84E-12	3.02E-11	3.63E-14	3.91E-11
1065	420761.9	3733684	1.05E-10	4.81E-10	1.05E-12	5.87E-10	1.44E-11	6.57E-11	1.57E-13	8.03E-11	8.85E-12	3.02E-11	3.63E-14	3.91E-11
1066	420771.6	3733682	1.05E-10	4.81E-10	1.05E-12	5.88E-10	1.44E-11	6.58E-11	1.57E-13	8.04E-11	8.86E-12	3.02E-11	3.64E-14	3.91E-11
1067	420781.3	3733681	1.05E-10	4.81E-10	1.05E-12	5.88E-10	1.44E-11	6.58E-11	1.57E-13	8.04E-11	8.86E-12	3.02E-11	3.64E-14	3.91E-11
1068	420790.9	3733679	1.05E-10	4.81E-10	1.05E-12	5.88E-10	1.44E-11	6.58E-11	1.57E-13	8.04E-11	8.86E-12	3.02E-11	3.64E-14	3.91E-11
1069	420800.6	3733677	1.05E-10	4.81E-10	1.05E-12	5.88E-10	1.44E-11	6.58E-11	1.57E-13	8.04E-11	8.86E-12	3.02E-11	3.64E-14	3.91E-11
1070	420810.3	3733676	1.05E-10	4.81E-10	1.05E-12	5.87E-10	1.44E-11	6.58E-11	1.57E-13	8.03E-11	8.85E-12	3.02E-11	3.64E-14	3.91E-11
1071	420820	3733674	1.05E-10	4.81E-10	1.05E-12	5.87E-10	1.44E-11	6.57E-11	1.57E-13	8.03E-11	8.85E-12	3.02E-11	3.63E-14	3.91E-11
1072	420829.7	3733672	1.05E-10	4.80E-10	1.05E-12	5.87E-10	1.44E-11	6.57E-11	1.56E-13	8.03E-11	8.84E-12	3.02E-11	3.63E-14	3.91E-11
1073	420839.3	3733670	1.05E-10	4.80E-10	1.05E-12	5.86E-10	1.44E-11	6.56E-11	1.56E-13	8.01E-11	8.83E-12	3.01E-11	3.63E-14	3.90E-11
1074	420849	3733669	1.05E-10	4.79E-10	1.05E-12	5.85E-10	1.44E-11	6.55E-11	1.56E-13	8.00E-11	8.81E-12	3.01E-11	3.62E-14	3.89E-11
1075	420858.7	3733667	1.05E-10	4.78E-10	1.05E-12	5.84E-10	1.43E-11	6.54E-11	1.56E-13	7.99E-11	8.80E-12	3.00E-11	3.61E-14	3.89E-11
1076	420868.4	3733665	1.04E-10	4.77E-10	1.04E-12	5.82E-10	1.43E-11	6.52E-11	1.55E-13	7.97E-11	8.78E-12	3.00E-11	3.60E-14	3.88E-11
1077	420878	3733663	1.04E-10	4.76E-10	1.04E-12	5.81E-10	1.43E-11	6.51E-11	1.55E-13	7.95E-11	8.76E-12	2.99E-11	3.60E-14	3.87E-11
1078	420887.7	3733662	1.04E-10	4.75E-10	1.04E-12	5.80E-10	1.42E-11	6.49E-11	1.55E-13	7.93E-11	8.74E-12	2.98E-11	3.59E-14	3.86E-11
1079	420897.4	3733660	1.04E-10	4.74E-10	1.04E-12	5.78E-10	1.42E-11	6.48E-11	1.54E-13	7.91E-11	8.72E-12	2.98E-11	3.58E-14	3.85E-11
1080	420060.7	3734289	1.41E-10	6.45E-10	1.41E-12	7.87E-10	1.93E-11	8.82E-11	2.10E-13	1.08E-10	1.19E-11	4.05E-11	4.87E-14	5.25E-11
1081	420060.7	3734299	1.40E-10	6.41E-10	1.40E-12	7.83E-10	1.92E-11	8.77E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.85E-14	5.21E-11
1082	420060.6	3734308	1.39E-10	6.38E-10	1.39E-12	7.79E-10	1.91E-11	8.72E-11	2.08E-13	1.07E-10	1.17E-11	4.01E-11	4.82E-14	5.19E-11
1083	420060.6	3734318	1.39E-10	6.34E-10	1.39E-12	7.74E-10	1.90E-11	8.67E-11	2.07E-13	1.06E-10	1.17E-11	3.99E-11	4.79E-14	5.16E-11
1084	420060.6	3734328	1.38E-10	6.31E-10	1.38E-12	7.70E-10	1.89E-11	8.63E-11	2.05E-13	1.05E-10	1.16E-11	3.96E-11	4.77E-14	5.13E-11
1085	420060.5	3734338	1.37E-10	6.27E-10	1.37E-12	7.66E-10	1.88E-11	8.58E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.74E-14	5.10E-11
1086	420060.5	3734348	1.36E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.53E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.71E-14	5.07E-11
1087	420060.4	3734358	1.36E-10	6.21E-10	1.36E-12	7.58E-10	1.86E-11	8.49E-11	2.02E-13	1.04E-10	1.14E-11	3.90E-11	4.69E-14	5.05E-11
1088	420060.4	3734368	1.35E-10	6.17E-10	1.35E-12	7.54E-10	1.85E-11	8.44E-11	2.01E-13	1.03E-10	1.14E-11	3.88E-11	4.67E-14	5.02E-11
1089	420042.7	3734245	1.36E-10	6.21E-10	1.36E-12	7.58E-10	1.86E-11	8.49E-11	2.02E-13	1.04E-10	1.14E-11	3.90E-11	4.69E-14	5.05E-11
1090	420047.1	3734236	1.39E-10	6.33E-10	1.38E-12	7.73E-10	1.90E-11	8.66E-11	2.06E-13	1.06E-10	1.17E-11	3.98E-11	4.79E-14	5.15E-11
1091	420051.5	3734227	1.41E-10	6.46E-10	1.41E-12	7.88E-10	1.94E-11	8.83E-11	2.10E-13	1.08E-10	1.19E-11	4.06E-11	4.88E-14	5.25E-11

1092	420055.9	3734219	1.44E-10	6.58E-10	1.44E-12	8.04E-10	1.97E-11	9.00E-11	2.14E-13	1.10E-10	1.21E-11	4.14E-11	4.97E-14	5.35E-11
1093	420060.4	3734210	1.47E-10	6.70E-10	1.47E-12	8.19E-10	2.01E-11	9.17E-11	2.18E-13	1.12E-10	1.23E-11	4.21E-11	5.07E-14	5.45E-11
1094	420064.8	3734201	1.49E-10	6.83E-10	1.49E-12	8.34E-10	2.05E-11	9.34E-11	2.22E-13	1.14E-10	1.26E-11	4.29E-11	5.16E-14	5.55E-11
1095	420069.2	3734193	1.52E-10	6.95E-10	1.52E-12	8.48E-10	2.08E-11	9.50E-11	2.26E-13	1.16E-10	1.28E-11	4.37E-11	5.25E-14	5.65E-11
1096	420073.6	3734184	1.55E-10	7.07E-10	1.54E-12	8.63E-10	2.12E-11	9.66E-11	2.30E-13	1.18E-10	1.30E-11	4.44E-11	5.34E-14	5.75E-11
1097	420078	3734175	1.57E-10	7.18E-10	1.57E-12	8.77E-10	2.15E-11	9.82E-11	2.34E-13	1.20E-10	1.32E-11	4.51E-11	5.43E-14	5.84E-11
1098	420091.2	3734149	1.64E-10	7.51E-10	1.64E-12	9.17E-10	2.25E-11	1.03E-10	2.44E-13	1.25E-10	1.38E-11	4.72E-11	5.67E-14	6.11E-11
1099	420095.6	3734140	1.66E-10	7.60E-10	1.66E-12	9.28E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.78E-11	5.75E-14	6.18E-11
1100	420100	3734131	1.68E-10	7.69E-10	1.68E-12	9.39E-10	2.31E-11	1.05E-10	2.50E-13	1.29E-10	1.42E-11	4.83E-11	5.81E-14	6.26E-11
1101	420104.4	3734123	1.70E-10	7.77E-10	1.70E-12	9.49E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.89E-11	5.87E-14	6.32E-11
1102	420108.8	3734114	1.72E-10	7.84E-10	1.71E-12	9.58E-10	2.35E-11	1.07E-10	2.55E-13	1.31E-10	1.44E-11	4.93E-11	5.93E-14	6.38E-11
1103	420113.2	3734105	1.73E-10	7.90E-10	1.73E-12	9.65E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.97E-11	5.97E-14	6.43E-11
1104	420117.6	3734097	1.74E-10	7.95E-10	1.74E-12	9.71E-10	2.38E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	5.00E-11	6.01E-14	6.47E-11
1105	420122	3734088	1.75E-10	7.99E-10	1.75E-12	9.76E-10	2.40E-11	1.09E-10	2.60E-13	1.34E-10	1.47E-11	5.02E-11	6.04E-14	6.50E-11
1106	420126.4	3734079	1.75E-10	8.02E-10	1.75E-12	9.79E-10	2.40E-11	1.10E-10	2.61E-13	1.34E-10	1.48E-11	5.04E-11	6.06E-14	6.52E-11
1107	420152.8	3734027	1.74E-10	7.94E-10	1.74E-12	9.70E-10	2.38E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	4.99E-11	6.00E-14	6.46E-11
1108	420157.2	3734018	1.73E-10	7.90E-10	1.73E-12	9.64E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.97E-14	6.42E-11
1109	420161.6	3734009	1.71E-10	7.83E-10	1.71E-12	9.57E-10	2.35E-11	1.07E-10	2.55E-13	1.31E-10	1.44E-11	4.92E-11	5.92E-14	6.37E-11
1110	420166	3734001	1.70E-10	7.76E-10	1.70E-12	9.48E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.87E-14	6.31E-11
1111	420170.4	3733992	1.68E-10	7.69E-10	1.68E-12	9.39E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
1112	420174.8	3733983	1.66E-10	7.60E-10	1.66E-12	9.28E-10	2.28E-11	1.04E-10	2.47E-13	1.27E-10	1.40E-11	4.78E-11	5.74E-14	6.18E-11
1113	420179.2	3733974	1.64E-10	7.50E-10	1.64E-12	9.16E-10	2.25E-11	1.03E-10	2.44E-13	1.25E-10	1.38E-11	4.72E-11	5.67E-14	6.10E-11
1114	420183.6	3733966	1.62E-10	7.41E-10	1.62E-12	9.04E-10	2.22E-11	1.01E-10	2.41E-13	1.24E-10	1.36E-11	4.65E-11	5.60E-14	6.02E-11
1115	420188.1	3733957	1.60E-10	7.30E-10	1.60E-12	8.91E-10	2.19E-11	9.98E-11	2.38E-13	1.22E-10	1.34E-11	4.59E-11	5.52E-14	5.94E-11
1116	420205.7	3733922	1.49E-10	6.82E-10	1.49E-12	8.33E-10	2.05E-11	9.33E-11	2.22E-13	1.14E-10	1.26E-11	4.29E-11	5.16E-14	5.55E-11
1117	420210.1	3733913	1.46E-10	6.69E-10	1.46E-12	8.17E-10	2.01E-11	9.15E-11	2.18E-13	1.12E-10	1.23E-11	4.21E-11	5.06E-14	5.44E-11
1118	420214.5	3733905	1.44E-10	6.57E-10	1.44E-12	8.02E-10	1.97E-11	8.98E-11	2.14E-13	1.10E-10	1.21E-11	4.13E-11	4.96E-14	5.34E-11
1119	420218.9	3733896	1.41E-10	6.43E-10	1.41E-12	7.85E-10	1.93E-11	8.80E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
1120	420223.3	3733887	1.38E-10	6.30E-10	1.38E-12	7.69E-10	1.89E-11	8.61E-11	2.05E-13	1.05E-10	1.16E-11	3.96E-11	4.76E-14	5.12E-11
1121	420227.7	3733878	1.35E-10	6.17E-10	1.35E-12	7.53E-10	1.85E-11	8.43E-11	2.01E-13	1.03E-10	1.13E-11	3.87E-11	4.66E-14	5.01E-11
1122	420232.1	3733870	1.32E-10	6.03E-10	1.32E-12	7.36E-10	1.81E-11	8.25E-11	1.96E-13	1.01E-10	1.11E-11	3.79E-11	4.56E-14	4.90E-11
1123	420236.5	3733861	1.29E-10	5.90E-10	1.29E-12	7.20E-10	1.77E-11	8.06E-11	1.92E-13	9.85E-11	1.09E-11	3.71E-11	4.46E-14	4.80E-11
1124	420240.9	3733852	1.26E-10	5.76E-10	1.26E-12	7.04E-10	1.73E-11	7.88E-11	1.88E-13	9.63E-11	1.06E-11	3.62E-11	4.36E-14	4.69E-11
1125	420262.9	3733809	1.12E-10	5.12E-10	1.12E-12	6.25E-10	1.54E-11	7.00E-11	1.67E-13	8.55E-11	9.42E-12	3.22E-11	3.87E-14	4.16E-11
1126	420267.3	3733800	1.09E-10	5.00E-10	1.09E-12	6.11E-10	1.50E-11	6.84E-11	1.63E-13	8.35E-11	9.20E-12	3.14E-11	3.78E-14	4.07E-11
1127	420271.7	3733791	1.07E-10	4.88E-10	1.07E-12	5.96E-10	1.46E-11	6.68E-11	1.59E-13	8.16E-11	8.99E-12	3.07E-11	3.69E-14	3.97E-11
1128	420276.1	3733782	1.04E-10	4.77E-10	1.04E-12	5.82E-10	1.43E-11	6.52E-11	1.55E-13	7.97E-11	8.78E-12	3.00E-11	3.60E-14	3.88E-11
1129	420280.5	3733774	1.02E-10	4.66E-10	1.02E-12	5.69E-10	1.40E-11	6.37E-11	1.52E-13	7.78E-11	8.57E-12	2.93E-11	3.52E-14	3.79E-11
1130	420284.9	3733765	9.96E-11	4.55E-10	9.96E-13	5.56E-10	1.37E-11	6.23E-11	1.48E-13	7.61E-11	8.38E-12	2.86E-11	3.44E-14	3.70E-11
1131	420289.3	3733756	9.73E-11	4.45E-10	9.73E-13	5.43E-10	1.33E-11	6.09E-11	1.45E-13	7.43E-11	8.19E-12	2.80E-11	3.36E-14	3.62E-11
1132	420293.7	3733747	9.52E-11	4.35E-10	9.51E-13	5.31E-10	1.30E-11	5.95E-11	1.42E-13	7.27E-11	8.01E-12	2.73E-11	3.29E-14	3.54E-11
1133	420298.1	3733739	9.30E-11	4.25E-10	9.30E-13	5.19E-10	1.28E-11	5.82E-11	1.39E-13	7.11E-11	7.83E-12	2.67E-11	3.22E-14	3.46E-11
1134	420312.2	3733728	9.07E-11	4.15E-10	9.07E-13	5.06E-10	1.24E-11	5.67E-11	1.35E-13	6.93E-11	7.63E-12	2.61E-11	3.13E-14	3.37E-11
1135	420321.8	3733727	9.04E-11	4.13E-10	9.04E-13	5.05E-10	1.24E-11	5.65E-11	1.35E-13	6.90E-11	7.61E-12	2.60E-11	3.12E-14	3.36E-11
1136	420331.4	3733725	9.01E-11	4.12E-10	9.00E-13	5.03E-10	1.23E-11	5.63E-11	1.34E-13	6.88E-11	7.58E-12	2.59E-11	3.11E-14	3.35E-11
1137	420341	3733723	8.98E-11	4.10E-10	8.97E-13	5.01E-10	1.23E-11	5.61E-11	1.34E-13	6.86E-11	7.55E-12	2.58E-11	3.10E-14	3.34E-11
1138	420350.7	3733721	8.95E-11	4.09E-10	8.95E-13	5.00E-10	1.23E-11	5.60E-11	1.33E-13	6.84E-11	7.53E-12	2.57E-11	3.09E-14	3.33E-11
1139	420360.3	3733720	8.93E-11	4.08E-10	8.92E-13	4.98E-10	1.22E-11	5.58E-11	1.33E-13	6.82E-11	7.51E-12	2.57E-11	3.09E-14	3.32E-11
1140	420389.1	3733715	8.88E-11	4.06E-10	8.87E-13	4.95E-10	1.22E-11	5.55E-11	1.32E-13	6.78E-11	7.47E-12	2.55E-11	3.07E-14	3.30E-11
1141	420398.8	3733713	8.86E-11	4.05E-10	8.85E-13	4.94E-10	1.21E-11	5.54E-11	1.32E-13	6.77E-11	7.45E-12	2.55E-11	3.06E-14	3.29E-11
1142	420408.4	3733711	8.85E-11	4.05E-10	8.85E-13	4.94E-10	1.21E-11	5.53E-11	1.32E-13	6.76E-11	7.45E-12	2.54E-11	3.06E-14	3.29E-11
1143	420418	3733709	8.85E-11	4.04E-10	8.84E-13	4.94E-10	1.21E-11	5.53E-11	1.32E-13	6.76E-11	7.44E-12	2.54E-11	3.06E-14	3.29E-11
1144	420427.6	3733708	8.84E-11	4.04E-10	8.84E-13	4.94E-10	1.21E-11	5.53E-11	1.32E-13	6.75E-11	7.44E-12	2.54E-11	3.06E-14	3.29E-11
1145	420437.3	3733706	8.84E-11	4.04E-10	8.84E-13	4.94E-10	1.21E-11	5.53E-11	1.32E-13	6.75E-11	7.44E-12	2.54E-11	3.06E-14	3.29E-11
1146	420446.9	3733704	8.85E-11	4.04E-10	8.84E-13	4.94E-10	1.21E-11	5.53E-11	1.32E-13	6.76E-11	7.44E-12	2.54E-11	3.06E-14	3.29E-11
1147	420456.5	3733702	8.85E-11	4.05E-10	8.85E-13	4.94E-10	1.21E-11	5.53E-11	1.32E-13	6.76E-11	7.45E-12	2.54E-11	3.06E-14	3.29E-11
1148	420466.1	3733701	8.86E-11	4.05E-10	8.85E-13	4.94E-10	1.21E-11	5.54E-11	1.32E-13	6.77E-11	7.45E-12	2.55E-11	3.06E-14	3.29E-11
1149	420475.7	3733699	8.88E-11	4.06E-10	8.87E-13	4.95E-10	1.22E-11	5.55E-11	1.32E-13	6.78E-11	7.47E-12	2.55E-11	3.07E-14	3.30E-11
1150	420485.4	3733697	8.89E-11	4.06E-10	8.88E-13	4.96E-10	1.22E-11	5.56E-11	1.32E-13	6.79E-11	7.48E-12	2.55E-11	3.07E-14	3.30E-11
1151	420495	3733696	8.91E-11	4.07E-10	8.91E-13	4.97E-10	1.22E-11	5.57E-11	1.33E-13	6.81E-11	7.50E-12	2.56E-11	3.08E-14	3.31E-11
1152	420504.6	3733694	8.93E-11	4.08E-10	8.92E-13	4.98E-10	1.22E-11	5.58E-11	1.33E-13	6.82E-11	7.51E-12	2.57E-11	3.09E-14	3.32E-11
1153	420514.2	3733692	8.95E-11	4.09E-10	8.95E-13	5.00E-10	1.23E-11	5.60E-11	1.33E-13	6.84E-11	7.53E-12	2.57E-11	3.09E-14	3.33E-11
1154	420523.9	3733690	8.98E-11	4.10E-10	8.97E-13	5.01E-10	1.23E-11	5.61E-11	1.34E-13	6.86E-11	7.55E-12	2.58E-11	3.10E-14	3.34E-11
1155	420533.5	3733689	9.01E-11	4.12E-10	9.00E-13	5.03E-10	1.23E-11	5.63E-11	1.34E-13	6.88E-11	7.58E-12	2.59E-11	3.11E-14	3.35E-11
1156	420543.1	3733687	9.03E-11	4.13E-10	9.03E-13	5.04E-10	1.24E-11	5.65E-11	1.34E-13	6.90E-11	7.60E-12	2.60E-11	3.12E-14	3.36E-11
1157	420552.7	3733685	9.07E-11	4.15E-10	9.07E-13	5.06E-10	1.24E-11	5.67E-11	1.35E-13	6.93E-11	7.63E-12	2.61E-11	3.13E-14	3.37E-11
1158	420562.3	3733684	9.11E-11	4.16E-10	9.10E-13	5.08E-10	1.25E-11	5.69E-11	1.36E-13	6.95E-11	7.66E-12	2.62E-11	3.15E-14	3.39E-11
1159	420572	3733682	9.13E-11	4.18E-10	9.13E-13	5.10E-10	1.25E-11	5.71E-11	1.36E-13	6.98E-11	7.68E-12	2.62E-11	3.16E-14	3.40E-11
1160	420581.6	3733680	9.18E-11	4.20E-10	9.17E-13	5.12E-10	1.26E-11	5.74E-11	1.37E-13	7.01E-11	7.72E-12	2.64E-11	3.17E-14	3.41E-11
1161	420591.2	3733678	9.21E-11	4.21E-10	9.21E-13	5.14E-10	1.26E-11	5.76E-11	1.37E-13	7.03E-11	7.75E-12	2.65E-11	3.18E-14	3.42E-11
1162	420600.8	3733677	9.25E-11	4.23E-10	9.24E-13	5.16E-10	1.27E-11	5.78E-11	1.38E-13	7.06E-11	7.78E-12	2.66E-11	3.20E-14	3.44E-11
1163	420610.5	3733675	9.28E-11	4.24E-10	9.28E-13	5.18E-10	1.27E-11	5.80E-11	1.38E-13	7.09E-11	7.81E-12	2.67E-11	3.21E-14	3.45E-11
1164	420620.1	3733673	9.32E-11	4.26E-10	9.31E-13	5.20E-10	1.28E-11	5.82E-11	1.39E-13	7.12E-11	7.84E-12	2.68E-11	3.22E-14	3.46E-11

1165	420629.7	3733671	9.35E-11	4.28E-10	9.35E-13	5.22E-10	1.28E-11	5.85E-11	1.39E-13	7.14E-11	7.87E-12	2.69E-11	3.23E-14	3.48E-11
1166	420639.3	3733670	9.38E-11	4.29E-10	9.38E-13	5.24E-10	1.29E-11	5.87E-11	1.40E-13	7.17E-11	7.89E-12	2.70E-11	3.24E-14	3.49E-11
1167	420677.8	3733663	9.51E-11	4.35E-10	9.51E-13	5.31E-10	1.30E-11	5.95E-11	1.42E-13	7.26E-11	8.00E-12	2.73E-11	3.29E-14	3.54E-11
1168	420687.4	3733661	9.53E-11	4.36E-10	9.53E-13	5.32E-10	1.31E-11	5.96E-11	1.42E-13	7.28E-11	8.02E-12	2.74E-11	3.29E-14	3.54E-11
1169	420697.1	3733659	9.56E-11	4.37E-10	9.55E-13	5.33E-10	1.31E-11	5.98E-11	1.42E-13	7.30E-11	8.04E-12	2.75E-11	3.30E-14	3.55E-11
1170	420706.7	3733658	9.58E-11	4.38E-10	9.58E-13	5.35E-10	1.31E-11	5.99E-11	1.43E-13	7.32E-11	8.06E-12	2.75E-11	3.31E-14	3.56E-11
1171	420716.3	3733656	9.60E-11	4.39E-10	9.60E-13	5.36E-10	1.32E-11	6.00E-11	1.43E-13	7.34E-11	8.08E-12	2.76E-11	3.32E-14	3.57E-11
1172	420725.9	3733654	9.62E-11	4.40E-10	9.62E-13	5.37E-10	1.32E-11	6.02E-11	1.43E-13	7.35E-11	8.09E-12	2.76E-11	3.32E-14	3.58E-11
1173	420735.5	3733653	9.64E-11	4.41E-10	9.63E-13	5.38E-10	1.32E-11	6.03E-11	1.43E-13	7.36E-11	8.11E-12	2.77E-11	3.33E-14	3.58E-11
1174	420745.2	3733651	9.65E-11	4.41E-10	9.65E-13	5.39E-10	1.32E-11	6.03E-11	1.44E-13	7.37E-11	8.12E-12	2.77E-11	3.34E-14	3.59E-11
1175	420754.8	3733649	9.66E-11	4.42E-10	9.66E-13	5.39E-10	1.32E-11	6.04E-11	1.44E-13	7.38E-11	8.13E-12	2.78E-11	3.34E-14	3.59E-11
1176	420764.4	3733647	9.67E-11	4.42E-10	9.67E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.34E-14	3.60E-11
1177	420774	3733646	9.68E-11	4.43E-10	9.68E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.35E-14	3.60E-11
1178	420783.7	3733644	9.69E-11	4.43E-10	9.68E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.40E-11	8.15E-12	2.78E-11	3.35E-14	3.60E-11
1179	420793.3	3733642	9.69E-11	4.43E-10	9.69E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.40E-11	8.15E-12	2.79E-11	3.35E-14	3.60E-11
1180	420802.9	3733641	9.69E-11	4.43E-10	9.68E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.40E-11	8.15E-12	2.78E-11	3.35E-14	3.60E-11
1181	420812.5	3733639	9.69E-11	4.43E-10	9.68E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.40E-11	8.15E-12	2.78E-11	3.35E-14	3.60E-11
1182	420822.1	3733637	9.68E-11	4.43E-10	9.68E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.35E-14	3.60E-11
1183	420831.8	3733635	9.67E-11	4.42E-10	9.67E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.34E-14	3.60E-11
1184	420841.4	3733634	9.66E-11	4.42E-10	9.66E-13	5.39E-10	1.32E-11	6.04E-11	1.44E-13	7.38E-11	8.13E-12	2.78E-11	3.34E-14	3.59E-11
1185	420851	3733632	9.65E-11	4.41E-10	9.65E-13	5.39E-10	1.32E-11	6.03E-11	1.44E-13	7.37E-11	8.12E-12	2.77E-11	3.34E-14	3.59E-11
1186	420860.6	3733630	9.64E-11	4.41E-10	9.63E-13	5.38E-10	1.32E-11	6.03E-11	1.43E-13	7.36E-11	8.11E-12	2.77E-11	3.33E-14	3.58E-11
1187	420870.3	3733628	9.62E-11	4.40E-10	9.62E-13	5.37E-10	1.32E-11	6.02E-11	1.43E-13	7.35E-11	8.09E-12	2.76E-11	3.32E-14	3.58E-11
1188	420879.9	3733627	9.60E-11	4.39E-10	9.60E-13	5.36E-10	1.32E-11	6.00E-11	1.43E-13	7.34E-11	8.08E-12	2.76E-11	3.32E-14	3.57E-11
1189	420889.5	3733625	9.59E-11	4.38E-10	9.58E-13	5.35E-10	1.31E-11	5.99E-11	1.43E-13	7.32E-11	8.07E-12	2.75E-11	3.31E-14	3.56E-11
1190	420899.1	3733623	9.56E-11	4.37E-10	9.56E-13	5.34E-10	1.31E-11	5.98E-11	1.42E-13	7.30E-11	8.05E-12	2.75E-11	3.30E-14	3.56E-11
1191	420908.7	3733622	9.54E-11	4.36E-10	9.53E-13	5.33E-10	1.31E-11	5.96E-11	1.42E-13	7.29E-11	8.03E-12	2.74E-11	3.30E-14	3.55E-11
1192	420020.7	3734289	1.23E-10	5.63E-10	1.23E-12	6.88E-10	1.69E-11	7.70E-11	1.83E-13	9.41E-11	1.04E-11	3.54E-11	4.26E-14	4.58E-11
1193	420020.7	3734298	1.23E-10	5.60E-10	1.22E-12	6.84E-10	1.68E-11	7.66E-11	1.82E-13	9.36E-11	1.03E-11	3.52E-11	4.23E-14	4.56E-11
1194	420020.6	3734308	1.22E-10	5.57E-10	1.22E-12	6.80E-10	1.67E-11	7.62E-11	1.81E-13	9.30E-11	1.02E-11	3.50E-11	4.21E-14	4.53E-11
1195	420020.6	3734318	1.21E-10	5.54E-10	1.21E-12	6.76E-10	1.66E-11	7.58E-11	1.80E-13	9.25E-11	1.02E-11	3.48E-11	4.19E-14	4.51E-11
1196	420020.6	3734328	1.21E-10	5.51E-10	1.21E-12	6.73E-10	1.65E-11	7.54E-11	1.79E-13	9.21E-11	1.01E-11	3.46E-11	4.17E-14	4.48E-11
1197	420020.5	3734338	1.20E-10	5.48E-10	1.20E-12	6.69E-10	1.64E-11	7.50E-11	1.79E-13	9.16E-11	1.01E-11	3.45E-11	4.14E-14	4.46E-11
1198	420020.5	3734348	1.19E-10	5.46E-10	1.19E-12	6.66E-10	1.64E-11	7.46E-11	1.78E-13	9.12E-11	1.00E-11	3.43E-11	4.12E-14	4.44E-11
1199	420020.4	3734358	1.19E-10	5.43E-10	1.19E-12	6.63E-10	1.63E-11	7.42E-11	1.77E-13	9.07E-11	9.99E-12	3.41E-11	4.10E-14	4.42E-11
1200	420020.4	3734367	1.18E-10	5.40E-10	1.18E-12	6.60E-10	1.62E-11	7.39E-11	1.76E-13	9.03E-11	9.94E-12	3.40E-11	4.08E-14	4.39E-11
1201	420655.7	3734210	9.94E-10	4.54E-09	9.93E-12	5.55E-09	1.36E-10	6.21E-10	1.48E-12	7.59E-10	8.36E-11	2.86E-10	3.43E-13	3.70E-10
1202	420722.2	3734190	9.57E-10	4.37E-09	9.56E-12	5.34E-09	1.31E-10	5.98E-10	1.42E-12	7.31E-10	8.05E-11	2.75E-10	3.31E-13	3.56E-10
1203	420646.5	3734189	8.31E-10	3.80E-09	8.30E-12	4.64E-09	1.14E-10	5.19E-10	1.24E-12	6.34E-10	6.99E-11	2.39E-10	2.87E-13	3.09E-10
1204	420656.3	3734150	6.32E-10	2.89E-09	6.32E-12	3.53E-09	8.67E-11	3.95E-10	9.41E-13	4.83E-10	5.32E-11	1.82E-10	2.18E-13	2.35E-10
1205	420646.9	3734149	6.22E-10	2.84E-09	6.21E-12	3.47E-09	8.52E-11	3.89E-10	9.26E-13	4.75E-10	5.23E-11	1.79E-10	2.15E-13	2.31E-10
1206	420685.6	3734070	4.06E-10	1.86E-09	4.06E-12	2.27E-09	5.57E-11	2.54E-10	6.05E-13	3.10E-10	3.42E-11	1.17E-10	1.40E-13	1.51E-10
1207	420648.9	3733950	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.32E-11	7.60E-14	8.18E-11
1208	420668.3	3733910	1.93E-10	8.81E-10	1.93E-12	1.08E-09	2.64E-11	1.20E-10	2.87E-13	1.47E-10	1.62E-11	5.53E-11	6.66E-14	7.16E-11
1209	420658.8	3733910	1.91E-10	8.72E-10	1.91E-12	1.06E-09	2.61E-11	1.19E-10	2.84E-13	1.46E-10	1.60E-11	5.48E-11	6.59E-14	7.09E-11
1210	420649.3	3733910	1.89E-10	8.63E-10	1.89E-12	1.05E-09	2.59E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.42E-11	6.52E-14	7.02E-11
1211	420687.6	3733870	1.70E-10	7.78E-10	1.70E-12	9.50E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.89E-11	5.88E-14	6.33E-11
1212	420678.1	3733870	1.69E-10	7.71E-10	1.68E-12	9.41E-10	2.31E-11	1.05E-10	2.51E-13	1.29E-10	1.42E-11	4.84E-11	5.82E-14	6.27E-11
1213	420668.7	3733870	1.67E-10	7.64E-10	1.67E-12	9.32E-10	2.29E-11	1.04E-10	2.49E-13	1.28E-10	1.41E-11	4.80E-11	5.77E-14	6.21E-11
1214	420659.2	3733870	1.65E-10	7.56E-10	1.65E-12	9.23E-10	2.27E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.75E-11	5.71E-14	6.15E-11
1215	420649.7	3733870	1.64E-10	7.49E-10	1.64E-12	9.14E-10	2.25E-11	1.02E-10	2.44E-13	1.25E-10	1.38E-11	4.71E-11	5.66E-14	6.09E-11
1216	420706.9	3733830	1.52E-10	6.93E-10	1.51E-12	8.46E-10	2.08E-11	9.47E-11	2.26E-13	1.16E-10	1.27E-11	4.35E-11	5.24E-14	5.63E-11
1217	420697.5	3733830	1.50E-10	6.87E-10	1.50E-12	8.39E-10	2.06E-11	9.40E-11	2.24E-13	1.15E-10	1.26E-11	4.32E-11	5.20E-14	5.59E-11
1218	420688	3733830	1.49E-10	6.82E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
1219	420678.5	3733830	1.48E-10	6.76E-10	1.48E-12	8.25E-10	2.03E-11	9.24E-11	2.20E-13	1.13E-10	1.24E-11	4.25E-11	5.11E-14	5.50E-11
1220	420669.1	3733830	1.47E-10	6.70E-10	1.46E-12	8.18E-10	2.01E-11	9.16E-11	2.18E-13	1.12E-10	1.23E-11	4.21E-11	5.06E-14	5.45E-11
1221	420659.6	3733830	1.45E-10	6.64E-10	1.45E-12	8.11E-10	1.99E-11	9.08E-11	2.16E-13	1.11E-10	1.22E-11	4.17E-11	5.02E-14	5.40E-11
1222	420650.1	3733830	1.44E-10	6.58E-10	1.44E-12	8.04E-10	1.97E-11	9.00E-11	2.14E-13	1.10E-10	1.21E-11	4.14E-11	4.97E-14	5.35E-11
1223	420726.3	3733790	1.36E-10	6.23E-10	1.36E-12	7.60E-10	1.87E-11	8.52E-11	2.03E-13	1.04E-10	1.15E-11	3.91E-11	4.71E-14	5.06E-11
1224	420716.8	3733790	1.35E-10	6.18E-10	1.35E-12	7.55E-10	1.85E-11	8.45E-11	2.01E-13	1.03E-10	1.14E-11	3.88E-11	4.67E-14	5.03E-11
1225	420707.4	3733790	1.34E-10	6.14E-10	1.34E-12	7.49E-10	1.84E-11	8.39E-11	2.00E-13	1.03E-10	1.13E-11	3.86E-11	4.64E-14	4.99E-11
1226	420697.9	3733790	1.33E-10	6.09E-10	1.33E-12	7.44E-10	1.83E-11	8.33E-11	1.98E-13	1.02E-10	1.12E-11	3.83E-11	4.60E-14	4.95E-11
1227	420688.4	3733790	1.32E-10	6.04E-10	1.32E-12	7.38E-10	1.81E-11	8.27E-11	1.97E-13	1.01E-10	1.11E-11	3.80E-11	4.57E-14	4.92E-11
1228	420678.9	3733790	1.31E-10	5.99E-10	1.31E-12	7.32E-10	1.80E-11	8.20E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.53E-14	4.87E-11
1229	420669.5	3733790	1.30E-10	5.95E-10	1.30E-12	7.26E-10	1.78E-11	8.13E-11	1.94E-13	9.93E-11	1.09E-11	3.74E-11	4.49E-14	4.83E-11
1230	420660	3733790	1.29E-10	5.89E-10	1.29E-12	7.20E-10	1.77E-11	8.06E-11	1.92E-13	9.85E-11	1.08E-11	3.70E-11	4.45E-14	4.79E-11
1231	420650.5	3733790	1.28E-10	5.84E-10	1.28E-12	7.13E-10	1.75E-11	7.99E-11	1.90E-13	9.76E-11	1.08E-11	3.67E-11	4.42E-14	4.75E-11
1232	420726.7	3733750	1.22E-10	5.56E-10	1.22E-12	6.79E-10	1.67E-11	7.61E-11	1.81E-13	9.29E-11	1.02E-11	3.50E-11	4.21E-14	4.52E-11
1233	420717.2	3733750	1.21E-10	5.53E-10	1.21E-12	6.75E-10	1.66E-11	7.56E-11	1.80E-13	9.23E-11	1.02E-11	3.47E-11	4.18E-14	4.49E-11
1234	420707.8	3733750	1.20E-10	5.49E-10	1.20E-12	6.70E-10	1.65E-11	7.51E-11	1.79E-13	9.17E-11	1.01E-11	3.45E-11	4.15E-14	4.46E-11
1235	420698.3	3733750	1.19E-10	5.45E-10	1.19E-12	6.66E-10	1.63E-11	7.45E-11	1.77E-13	9.11E-11	1.00E-11	3.43E-11	4.12E-14	4.43E-11
1236	420688.8	3733750	1.18E-10	5.41E-10	1.18E-12	6.61E-10	1.62E-11	7.40E-11	1.76E-13	9.04E-11	9.96E-12	3.40E-11	4.09E-14	4.40E-11
1237	420679.4	3733750	1.17E-10	5.37E-10	1.17E-12	6.56E-10	1.61E-11	7.34E-11	1.75E-13	8.97E-11	9.88E-12	3.38E-11	4.06E-14	4.37E-11

1238	420669.9	3733750	1.17E-10	5.33E-10	1.16E-12	6.50E-10	1.60E-11	7.29E-11	1.73E-13	8.90E-11	9.80E-12	3.35E-11	4.03E-14	4.33E-11
1239	420660.4	3733750	1.16E-10	5.28E-10	1.16E-12	6.45E-10	1.58E-11	7.23E-11	1.72E-13	8.83E-11	9.72E-12	3.32E-11	3.99E-14	4.30E-11
1240	420650.9	3733750	1.15E-10	5.24E-10	1.15E-12	6.40E-10	1.57E-11	7.17E-11	1.71E-13	8.76E-11	9.65E-12	3.30E-11	3.96E-14	4.27E-11
1241	420727.1	3733710	1.10E-10	5.02E-10	1.10E-12	6.13E-10	1.51E-11	6.87E-11	1.64E-13	8.39E-11	9.24E-12	3.16E-11	3.80E-14	4.08E-11
1242	420717.6	3733710	1.09E-10	4.99E-10	1.09E-12	6.09E-10	1.50E-11	6.82E-11	1.62E-13	8.34E-11	9.18E-12	3.14E-11	3.77E-14	4.06E-11
1243	420708.2	3733710	1.08E-10	4.96E-10	1.08E-12	6.05E-10	1.49E-11	6.78E-11	1.61E-13	8.28E-11	9.12E-12	3.12E-11	3.75E-14	4.03E-11
1244	420698.7	3733710	1.08E-10	4.92E-10	1.08E-12	6.01E-10	1.48E-11	6.73E-11	1.60E-13	8.22E-11	9.06E-12	3.09E-11	3.72E-14	4.00E-11
1245	420689.2	3733710	1.07E-10	4.89E-10	1.07E-12	5.97E-10	1.47E-11	6.68E-11	1.59E-13	8.16E-11	8.99E-12	3.07E-11	3.69E-14	3.97E-11
1246	420679.8	3733710	1.06E-10	4.86E-10	1.06E-12	5.93E-10	1.46E-11	6.64E-11	1.58E-13	8.11E-11	8.93E-12	3.05E-11	3.67E-14	3.95E-11
1247	420670.3	3733710	1.05E-10	4.82E-10	1.05E-12	5.89E-10	1.45E-11	6.59E-11	1.57E-13	8.05E-11	8.87E-12	3.03E-11	3.64E-14	3.92E-11
1248	420727.5	3733670	9.99E-11	4.57E-10	9.98E-13	5.57E-10	1.37E-11	6.24E-11	1.49E-13	7.63E-11	8.40E-12	2.87E-11	3.45E-14	3.71E-11
1249	420718	3733670	9.93E-11	4.54E-10	9.92E-13	5.54E-10	1.36E-11	6.21E-11	1.48E-13	7.58E-11	8.35E-12	2.85E-11	3.43E-14	3.69E-11
1250	420708.6	3733670	9.86E-11	4.51E-10	9.86E-13	5.51E-10	1.35E-11	6.17E-11	1.47E-13	7.53E-11	8.30E-12	2.83E-11	3.41E-14	3.67E-11
1251	420699.1	3733670	9.80E-11	4.48E-10	9.80E-13	5.47E-10	1.34E-11	6.13E-11	1.46E-13	7.49E-11	8.25E-12	2.82E-11	3.39E-14	3.65E-11
1252	420689.6	3733670	9.73E-11	4.45E-10	9.73E-13	5.43E-10	1.33E-11	6.09E-11	1.45E-13	7.43E-11	8.19E-12	2.80E-11	3.36E-14	3.62E-11
1253	420614.8	3734379	6.11E-09	2.79E-08	6.11E-11	3.41E-08	8.38E-10	3.82E-09	9.10E-12	4.67E-09	5.14E-10	1.76E-09	2.11E-12	2.27E-09
1254	420615	3734396	7.48E-09	3.42E-08	7.48E-11	4.18E-08	1.03E-09	4.68E-09	1.11E-11	5.72E-09	6.30E-10	2.15E-09	2.59E-12	2.78E-09
1255	420604.8	3734379	5.46E-09	2.50E-08	5.46E-11	3.05E-08	7.48E-10	3.41E-09	8.13E-12	4.17E-09	4.59E-10	1.57E-09	1.89E-12	2.03E-09
1256	420605	3734396	6.49E-09	2.97E-08	6.49E-11	3.62E-08	8.90E-10	4.06E-09	9.67E-12	4.96E-09	5.46E-10	1.87E-09	2.24E-12	2.41E-09
1257	420594.8	3734379	4.87E-09	2.23E-08	4.87E-11	2.72E-08	6.68E-10	3.05E-09	7.26E-12	3.72E-09	4.10E-10	1.40E-09	1.68E-12	1.81E-09
1258	420595	3734396	5.65E-09	2.58E-08	5.65E-11	3.15E-08	7.75E-10	3.53E-09	8.41E-12	4.32E-09	4.75E-10	1.62E-09	1.95E-12	2.10E-09
1259	420609.4	3734324	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.04E-10	1.84E-09	4.39E-12	2.25E-09	2.48E-10	8.47E-10	1.02E-12	1.10E-09
1260	420584.8	3734379	4.35E-09	1.99E-08	4.35E-11	2.43E-08	5.97E-10	2.72E-09	6.48E-12	3.32E-09	3.66E-10	1.25E-09	1.50E-12	1.62E-09
1261	420585	3734396	4.93E-09	2.26E-08	4.93E-11	2.75E-08	6.76E-10	3.09E-09	7.35E-12	3.77E-09	4.15E-10	1.42E-09	1.71E-12	1.83E-09
1262	420589.3	3734334	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.86E-09	4.42E-12	2.27E-09	2.50E-10	8.53E-10	1.03E-12	1.10E-09
1263	420609.5	3734314	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	3.89E-12	1.99E-09	2.20E-10	7.51E-10	9.03E-13	9.71E-10
1264	420574.8	3734379	3.89E-09	1.78E-08	3.89E-11	2.17E-08	5.33E-10	2.43E-09	5.79E-12	2.97E-09	3.27E-10	1.12E-09	1.34E-12	1.45E-09
1265	420575	3734396	4.33E-09	1.98E-08	4.32E-11	2.41E-08	5.93E-10	2.70E-09	6.44E-12	3.30E-09	3.64E-10	1.24E-09	1.49E-12	1.61E-09
1266	420609.6	3734304	2.32E-09	1.06E-08	2.32E-11	1.30E-08	3.18E-10	1.45E-09	3.46E-12	1.77E-09	1.95E-10	6.67E-10	8.02E-13	8.63E-10
1267	420564.8	3734379	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.17E-09	5.18E-12	2.66E-09	2.93E-10	9.99E-10	1.20E-12	1.29E-09
1268	420565	3734397	3.81E-09	1.74E-08	3.80E-11	2.12E-08	5.22E-10	2.38E-09	5.67E-12	2.91E-09	3.20E-10	1.09E-09	1.32E-12	1.42E-09
1269	420569.3	3734335	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	3.88E-12	1.99E-09	2.19E-10	7.48E-10	9.00E-13	9.68E-10
1270	420609.7	3734294	2.07E-09	9.46E-09	2.07E-11	1.16E-08	2.84E-10	1.29E-09	3.08E-12	1.58E-09	1.74E-10	5.95E-10	7.15E-13	7.70E-10
1271	420554.8	3734379	3.12E-09	1.42E-08	3.11E-11	1.74E-08	4.27E-10	1.95E-09	4.64E-12	2.38E-09	2.62E-10	8.95E-10	1.08E-12	1.16E-09
1272	420555	3734397	3.36E-09	1.54E-08	3.36E-11	1.88E-08	4.61E-10	2.10E-09	5.00E-12	2.57E-09	2.83E-10	9.66E-10	1.16E-12	1.25E-09
1273	420570.6	3734307	2.04E-09	9.31E-09	2.03E-11	1.14E-08	2.79E-10	1.27E-09	3.03E-12	1.55E-09	1.71E-10	5.85E-10	7.03E-13	7.57E-10
1274	420589.8	3734292	1.90E-09	8.71E-09	1.90E-11	1.06E-08	2.61E-10	1.19E-09	2.83E-12	1.45E-09	1.60E-10	5.47E-10	6.58E-13	7.08E-10
1275	420544.8	3734379	2.80E-09	1.28E-08	2.79E-11	1.56E-08	3.83E-10	1.75E-09	4.16E-12	2.14E-09	2.35E-10	8.03E-10	9.66E-13	1.04E-09
1276	420545	3734397	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.08E-10	1.86E-09	4.43E-12	2.28E-09	2.51E-10	8.56E-10	1.03E-12	1.11E-09
1277	420550.1	3734308	1.86E-09	8.49E-09	1.86E-11	1.04E-08	2.54E-10	1.16E-09	2.76E-12	1.42E-09	1.56E-10	5.33E-10	6.41E-13	6.90E-10
1278	420524.8	3734380	2.27E-09	1.04E-08	2.26E-11	1.26E-08	3.11E-10	1.42E-09	3.37E-12	1.73E-09	1.91E-10	6.51E-10	7.83E-13	8.43E-10
1279	420525	3734397	2.37E-09	1.08E-08	2.36E-11	1.32E-08	3.24E-10	1.48E-09	3.52E-12	1.81E-09	1.99E-10	6.80E-10	8.17E-13	8.79E-10
1280	420529.8	3734309	1.67E-09	7.63E-09	1.67E-11	9.31E-09	2.29E-10	1.04E-09	2.48E-12	1.27E-09	1.40E-10	4.79E-10	5.76E-13	6.20E-10
1281	420504.8	3734380	1.85E-09	8.47E-09	1.85E-11	1.03E-08	2.54E-10	1.16E-09	2.76E-12	1.41E-09	1.56E-10	5.32E-10	6.40E-13	6.89E-10
1282	420505	3734397	1.90E-09	8.71E-09	1.90E-11	1.06E-08	2.61E-10	1.19E-09	2.84E-12	1.45E-09	1.60E-10	5.47E-10	6.58E-13	7.08E-10
1283	420577.3	3734238	1.09E-09	5.00E-09	1.09E-11	6.10E-09	1.50E-10	6.83E-10	1.63E-12	8.35E-10	9.20E-11	3.14E-10	3.78E-13	4.06E-10
1284	420484.8	3734380	1.53E-09	6.99E-09	1.53E-11	8.54E-09	2.10E-10	9.56E-10	2.28E-12	1.17E-09	1.29E-10	4.39E-10	5.28E-13	5.69E-10
1285	420485	3734397	1.56E-09	7.11E-09	1.55E-11	8.68E-09	2.13E-10	9.72E-10	2.31E-12	1.19E-09	1.31E-10	4.47E-10	5.37E-13	5.78E-10
1286	420540	3734233	9.73E-10	4.45E-09	9.73E-12	5.43E-09	1.33E-10	6.08E-10	1.45E-12	7.43E-10	8.19E-11	2.80E-10	3.36E-13	3.62E-10
1287	420464.8	3734380	1.27E-09	5.83E-09	1.27E-11	7.11E-09	1.75E-10	7.97E-10	1.90E-12	9.73E-10	1.07E-10	3.66E-10	4.40E-13	4.74E-10
1288	420465	3734398	1.29E-09	5.88E-09	1.28E-11	7.17E-09	1.76E-10	8.03E-10	1.91E-12	9.81E-10	1.08E-10	3.69E-10	4.44E-13	4.78E-10
1289	420470.6	3734308	1.15E-09	5.24E-09	1.15E-11	6.40E-09	1.57E-10	7.16E-10	1.71E-12	8.75E-10	9.64E-11	3.29E-10	3.96E-13	4.26E-10
1290	420527	3734218	8.58E-10	3.92E-09	8.57E-12	4.79E-09	1.18E-10	5.36E-10	1.28E-12	6.55E-10	7.22E-11	2.46E-10	2.96E-13	3.19E-10
1291	420444.8	3734381	1.07E-09	4.90E-09	1.07E-11	5.98E-09	1.47E-10	6.70E-10	1.60E-12	8.19E-10	9.02E-11	3.08E-10	3.70E-13	3.99E-10
1292	420445	3734398	1.07E-09	4.91E-09	1.07E-11	6.00E-09	1.47E-10	6.72E-10	1.60E-12	8.21E-10	9.04E-11	3.09E-10	3.71E-13	3.99E-10
1293	420450.4	3734309	1.01E-09	4.61E-09	1.01E-11	5.62E-09	1.38E-10	6.30E-10	1.50E-12	7.70E-10	8.48E-11	2.90E-10	3.48E-13	3.75E-10
1294	420485.7	3734222	7.95E-10	3.63E-09	7.94E-12	4.44E-09	1.09E-10	4.97E-10	1.18E-12	6.07E-10	6.69E-11	2.28E-10	2.75E-13	2.96E-10
1295	420468.4	3734216	7.28E-10	3.33E-09	7.28E-12	4.06E-09	9.98E-11	4.55E-10	1.08E-12	5.56E-10	6.13E-11	2.09E-10	2.52E-13	2.71E-10
1296	420607.9	3734146	5.71E-10	2.61E-09	5.71E-12	3.19E-09	7.83E-11	3.57E-10	8.50E-13	4.36E-10	4.80E-11	1.64E-10	1.97E-13	2.12E-10
1297	420404.8	3734381	7.79E-10	3.56E-09	7.79E-12	4.35E-09	1.07E-10	4.87E-10	1.16E-12	5.95E-10	6.56E-11	2.24E-10	2.69E-13	2.90E-10
1298	420405	3734398	7.75E-10	3.55E-09	7.75E-12	4.33E-09	1.06E-10	4.85E-10	1.15E-12	5.92E-10	6.52E-11	2.23E-10	2.68E-13	2.88E-10
1299	420397.3	3734342	7.37E-10	3.37E-09	7.36E-12	4.11E-09	1.01E-10	4.61E-10	1.10E-12	5.63E-10	6.20E-11	2.12E-10	2.55E-13	2.74E-10
1300	420403.6	3734326	7.61E-10	3.48E-09	7.61E-12	4.25E-09	1.04E-10	4.76E-10	1.13E-12	5.81E-10	6.40E-11	2.19E-10	2.63E-13	2.83E-10
1301	420410	3734310	7.78E-10	3.56E-09	7.78E-12	4.34E-09	1.07E-10	4.87E-10	1.16E-12	5.94E-10	6.55E-11	2.24E-10	2.69E-13	2.89E-10
1302	420451.1	3734209	6.68E-10	3.05E-09	6.67E-12	3.73E-09	9.15E-11	4.17E-10	9.94E-13	5.10E-10	5.62E-11	1.92E-10	2.31E-13	2.48E-10
1303	420457.4	3734194	6.26E-10	2.86E-09	6.26E-12	3.49E-09	8.58E-11	3.91E-10	9.32E-13	4.78E-10	5.27E-11	1.80E-10	2.16E-13	2.33E-10
1304	420600.6	3734129	5.07E-10	2.32E-09	5.07E-12	2.83E-09	6.95E-11	3.17E-10	7.55E-13	3.87E-10	4.27E-11	1.46E-10	1.75E-13	1.89E-10
1305	420384.8	3734381	6.73E-10	3.08E-09	6.73E-12	3.76E-09	9.23E-11	4.21E-10	1.00E-12	5.14E-10	5.66E-11	1.93E-10	2.33E-13	2.50E-10
1306	420385	3734399	6.68E-10	3.06E-09	6.68E-12	3.73E-09	9.16E-11	4.18E-10	9.95E-13	5.10E-10	5.62E-11	1.92E-10	2.31E-13	2.48E-10
1307	420389.8	3734311	6.85E-10	3.13E-09	6.85E-12	3.83E-09	9.39E-11	4.28E-10	1.02E-12	5.23E-10	5.77E-11	1.97E-10	2.37E-13	2.55E-10
1308	420396.1	3734296	6.98E-10	3.19E-09	6.97E-12	3.89E-09	9.56E-11	4.36E-10	1.04E-12	5.33E-10	5.87E-11	2.00E-10	2.41E-13	2.59E-10
1309	420415	3734249	6.88E-10	3.14E-09	6.87E-12	3.84E-09	9.43E-11	4.30E-10	1.02E-12	5.25E-10	5.79E-11	1.98E-10	2.38E-13	2.56E-10
1310	420421.3	3734234	6.69E-10	3.06E-09	6.69E-12	3.74E-09	9.17E-11	4.18E-10	9.96E-13	5.11E-10	5.63E-11	1.92E-10	2.31E-13	2.49E-10

1311	420427.6	3734218	6.44E-10	2.94E-09	6.43E-12	3.59E-09	8.83E-11	4.03E-10	9.58E-13	4.92E-10	5.42E-11	1.85E-10	2.22E-13	2.39E-10
1312	420454.2	3734169	5.42E-10	2.48E-09	5.42E-12	3.03E-09	7.43E-11	3.39E-10	8.07E-13	4.14E-10	4.56E-11	1.56E-10	1.87E-13	2.02E-10
1313	420577.9	3734118	4.63E-10	2.12E-09	4.63E-12	2.58E-09	6.35E-11	2.89E-10	6.89E-13	3.54E-10	3.90E-11	1.33E-10	1.60E-13	1.72E-10
1314	420364.8	3734382	5.86E-10	2.68E-09	5.85E-12	3.27E-09	8.03E-11	3.66E-10	8.72E-13	4.47E-10	4.93E-11	1.68E-10	2.02E-13	2.18E-10
1315	420365	3734399	5.81E-10	2.66E-09	5.80E-12	3.24E-09	7.96E-11	3.63E-10	8.65E-13	4.44E-10	4.89E-11	1.67E-10	2.01E-13	2.16E-10
1316	420357.6	3734341	5.66E-10	2.59E-09	5.65E-12	3.16E-09	7.76E-11	3.54E-10	8.42E-13	4.32E-10	4.76E-11	1.63E-10	1.95E-13	2.10E-10
1317	420364.1	3734325	5.88E-10	2.69E-09	5.88E-12	3.28E-09	8.06E-11	3.68E-10	8.76E-13	4.49E-10	4.95E-11	1.69E-10	2.03E-13	2.19E-10
1318	420370.6	3734309	6.07E-10	2.78E-09	6.07E-12	3.39E-09	8.33E-11	3.80E-10	9.04E-13	4.64E-10	5.11E-11	1.75E-10	2.10E-13	2.26E-10
1319	420409.6	3734213	5.91E-10	2.70E-09	5.91E-12	3.30E-09	8.10E-11	3.70E-10	8.80E-13	4.51E-10	4.97E-11	1.70E-10	2.04E-13	2.20E-10
1320	420416.1	3734198	5.66E-10	2.59E-09	5.66E-12	3.16E-09	7.76E-11	3.54E-10	8.43E-13	4.32E-10	4.76E-11	1.63E-10	1.96E-13	2.11E-10
1321	420422.6	3734182	5.38E-10	2.46E-09	5.37E-12	3.00E-09	7.37E-11	3.36E-10	8.00E-13	4.11E-10	4.52E-11	1.54E-10	1.86E-13	2.00E-10
1322	420464.2	3734145	4.83E-10	2.21E-09	4.83E-12	2.69E-09	6.62E-11	3.02E-10	7.19E-13	3.69E-10	4.06E-11	1.39E-10	1.67E-13	1.80E-10
1323	420480.2	3734138	4.75E-10	2.17E-09	4.75E-12	2.65E-09	6.51E-11	2.97E-10	7.07E-13	3.63E-10	4.00E-11	1.37E-10	1.64E-13	1.77E-10
1324	420575.9	3734099	4.13E-10	1.89E-09	4.13E-12	2.30E-09	5.66E-11	2.58E-10	6.14E-13	3.15E-10	3.47E-11	1.19E-10	1.43E-13	1.53E-10
1325	420344.8	3734382	5.13E-10	2.35E-09	5.13E-12	2.86E-09	7.04E-11	3.21E-10	7.64E-13	3.92E-10	4.32E-11	1.47E-10	1.77E-13	1.91E-10
1326	420345	3734399	5.08E-10	2.32E-09	5.08E-12	2.84E-09	6.97E-11	3.18E-10	7.57E-13	3.88E-10	4.28E-11	1.46E-10	1.76E-13	1.89E-10
1327	420317.5	3734342	4.42E-10	2.02E-09	4.42E-12	2.47E-09	6.06E-11	2.76E-10	6.58E-13	3.38E-10	3.72E-11	1.27E-10	1.53E-13	1.64E-10
1328	420323.9	3734326	4.61E-10	2.11E-09	4.60E-12	2.57E-09	6.31E-11	2.88E-10	6.86E-13	3.52E-10	3.87E-11	1.32E-10	1.59E-13	1.71E-10
1329	420330.3	3734311	4.78E-10	2.18E-09	4.77E-12	2.67E-09	6.55E-11	2.99E-10	7.11E-13	3.65E-10	4.02E-11	1.37E-10	1.65E-13	1.78E-10
1330	420388	3734169	4.62E-10	2.11E-09	4.62E-12	2.58E-09	6.33E-11	2.89E-10	6.87E-13	3.53E-10	3.89E-11	1.33E-10	1.60E-13	1.72E-10
1331	420400.8	3734137	4.16E-10	1.90E-09	4.16E-12	2.32E-09	5.71E-11	2.60E-10	6.20E-13	3.18E-10	3.50E-11	1.20E-10	1.44E-13	1.55E-10
1332	420411.8	3734126	4.04E-10	1.85E-09	4.04E-12	2.25E-09	5.54E-11	2.53E-10	6.01E-13	3.09E-10	3.40E-11	1.16E-10	1.40E-13	1.50E-10
1333	420443.3	3734113	3.97E-10	1.81E-09	3.97E-12	2.22E-09	5.44E-11	2.48E-10	5.91E-13	3.03E-10	3.34E-11	1.14E-10	1.37E-13	1.48E-10
1334	420459.1	3734107	3.90E-10	1.79E-09	3.90E-12	2.18E-09	5.35E-11	2.44E-10	5.81E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
1335	420490.6	3734094	3.74E-10	1.71E-09	3.74E-12	2.09E-09	5.13E-11	2.34E-10	5.57E-13	2.86E-10	3.15E-11	1.08E-10	1.29E-13	1.39E-10
1336	420304.8	3734382	4.02E-10	1.84E-09	4.02E-12	2.24E-09	5.51E-11	2.51E-10	5.98E-13	3.07E-10	3.38E-11	1.15E-10	1.39E-13	1.49E-10
1337	420305	3734400	3.98E-10	1.82E-09	3.97E-12	2.22E-09	5.45E-11	2.49E-10	5.92E-13	3.04E-10	3.34E-11	1.14E-10	1.37E-13	1.48E-10
1338	420277.7	3734342	3.53E-10	1.61E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.26E-13	2.70E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
1339	420284.3	3734326	3.68E-10	1.68E-09	3.68E-12	2.06E-09	5.05E-11	2.30E-10	5.48E-13	2.81E-10	3.10E-11	1.06E-10	1.27E-13	1.37E-10
1340	420330	3734214	4.29E-10	1.96E-09	4.29E-12	2.40E-09	5.88E-11	2.68E-10	6.39E-13	3.28E-10	3.61E-11	1.23E-10	1.48E-13	1.60E-10
1341	420336.5	3734197	4.25E-10	1.94E-09	4.25E-12	2.37E-09	5.83E-11	2.66E-10	6.33E-13	3.25E-10	3.58E-11	1.22E-10	1.47E-13	1.58E-10
1342	420343	3734181	4.17E-10	1.91E-09	4.17E-12	2.33E-09	5.72E-11	2.61E-10	6.21E-13	3.19E-10	3.51E-11	1.20E-10	1.44E-13	1.55E-10
1343	420362.6	3734133	3.76E-10	1.72E-09	3.76E-12	2.10E-09	5.16E-11	2.35E-10	5.60E-13	2.87E-10	3.16E-11	1.08E-10	1.30E-13	1.40E-10
1344	420369.1	3734117	3.58E-10	1.64E-09	3.58E-12	2.00E-09	4.91E-11	2.24E-10	5.33E-13	2.74E-10	3.01E-11	1.03E-10	1.24E-13	1.33E-10
1345	420415.8	3734085	3.34E-10	1.53E-09	3.34E-12	1.86E-09	4.58E-11	2.09E-10	4.97E-13	2.55E-10	2.81E-11	9.60E-11	1.15E-13	1.24E-10
1346	420431.8	3734078	3.29E-10	1.50E-09	3.29E-12	1.84E-09	4.51E-11	2.06E-10	4.90E-13	2.51E-10	2.77E-11	9.45E-11	1.14E-13	1.22E-10
1347	420463.9	3734065	3.16E-10	1.45E-09	3.16E-12	1.76E-09	4.33E-11	1.98E-10	4.71E-13	2.41E-10	2.66E-11	9.08E-11	1.09E-13	1.18E-10
1348	420520.1	3734042	2.91E-10	1.33E-09	2.91E-12	1.63E-09	4.00E-11	1.82E-10	4.34E-13	2.23E-10	2.45E-11	8.38E-11	1.01E-13	1.08E-10
1349	420536.2	3734035	2.85E-10	1.30E-09	2.85E-12	1.59E-09	3.91E-11	1.78E-10	4.25E-13	2.18E-10	2.40E-11	8.20E-11	9.86E-14	1.06E-10
1350	420552.2	3734029	2.80E-10	1.28E-09	2.80E-12	1.56E-09	3.84E-11	1.75E-10	4.17E-13	2.14E-10	2.36E-11	8.05E-11	9.68E-14	1.04E-10
1351	420568.3	3734022	2.76E-10	1.26E-09	2.75E-12	1.54E-09	3.78E-11	1.72E-10	4.10E-13	2.10E-10	2.32E-11	7.92E-11	9.52E-14	1.02E-10
1352	420584.3	3734016	2.72E-10	1.24E-09	2.72E-12	1.52E-09	3.73E-11	1.70E-10	4.05E-13	2.08E-10	2.29E-11	7.81E-11	9.39E-14	1.01E-10
1353	420264.8	3734383	3.22E-10	1.47E-09	3.21E-12	1.79E-09	4.41E-11	2.01E-10	4.79E-13	2.46E-10	2.71E-11	9.24E-11	1.11E-13	1.20E-10
1354	420265	3734400	3.18E-10	1.46E-09	3.18E-12	1.78E-09	4.36E-11	1.99E-10	4.74E-13	2.43E-10	2.68E-11	9.15E-11	1.10E-13	1.18E-10
1355	420237.6	3734343	2.86E-10	1.31E-09	2.86E-12	1.60E-09	3.93E-11	1.79E-10	4.26E-13	2.19E-10	2.41E-11	8.23E-11	9.90E-14	1.06E-10
1356	420244	3734327	2.98E-10	1.36E-09	2.98E-12	1.67E-09	4.09E-11	1.87E-10	4.44E-13	2.28E-10	2.51E-11	8.57E-11	1.03E-13	1.11E-10
1357	420250.5	3734311	3.10E-10	1.42E-09	3.10E-12	1.73E-09	4.26E-11	1.94E-10	4.62E-13	2.37E-10	2.61E-11	8.92E-11	1.07E-13	1.15E-10
1358	420295.7	3734200	3.63E-10	1.66E-09	3.63E-12	2.03E-09	4.98E-11	2.27E-10	5.41E-13	2.77E-10	3.06E-11	1.04E-10	1.26E-13	1.35E-10
1359	420302.2	3734184	3.62E-10	1.65E-09	3.61E-12	2.02E-09	4.96E-11	2.26E-10	5.38E-13	2.76E-10	3.04E-11	1.04E-10	1.25E-13	1.34E-10
1360	420308.6	3734168	3.57E-10	1.63E-09	3.57E-12	1.99E-09	4.90E-11	2.23E-10	5.32E-13	2.73E-10	3.01E-11	1.03E-10	1.23E-13	1.33E-10
1361	420321.5	3734136	3.41E-10	1.56E-09	3.41E-12	1.90E-09	4.68E-11	2.13E-10	5.08E-13	2.61E-10	2.87E-11	9.80E-11	1.18E-13	1.27E-10
1362	420328	3734120	3.30E-10	1.51E-09	3.30E-12	1.84E-09	4.53E-11	2.06E-10	4.91E-13	2.52E-10	2.78E-11	9.49E-11	1.14E-13	1.23E-10
1363	420334.4	3734105	3.18E-10	1.45E-09	3.17E-12	1.77E-09	4.35E-11	1.99E-10	4.73E-13	2.43E-10	2.67E-11	9.13E-11	1.10E-13	1.18E-10
1364	420340.9	3734089	3.04E-10	1.39E-09	3.04E-12	1.70E-09	4.17E-11	1.90E-10	4.53E-13	2.32E-10	2.56E-11	8.74E-11	1.05E-13	1.13E-10
1365	420355.3	3734070	2.90E-10	1.33E-09	2.90E-12	1.62E-09	3.97E-11	1.81E-10	4.32E-13	2.21E-10	2.44E-11	8.33E-11	1.00E-13	1.08E-10
1366	420442.6	3734034	2.69E-10	1.23E-09	2.68E-12	1.50E-09	3.68E-11	1.68E-10	4.00E-13	2.05E-10	2.26E-11	7.72E-11	9.28E-14	9.99E-11
1367	420458.4	3734027	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.60E-11	1.64E-10	3.91E-13	2.01E-10	2.21E-11	7.55E-11	9.08E-14	9.77E-11
1368	420490.2	3734014	2.51E-10	1.15E-09	2.51E-12	1.40E-09	3.45E-11	1.57E-10	3.74E-13	1.92E-10	2.12E-11	7.23E-11	8.69E-14	9.35E-11
1369	420521.9	3734001	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.94E-11	8.34E-14	8.98E-11
1370	420537.8	3733995	2.37E-10	1.09E-09	2.37E-12	1.32E-09	3.25E-11	1.48E-10	3.53E-13	1.81E-10	2.00E-11	6.82E-11	8.20E-14	8.83E-11
1371	420553.7	3733988	2.34E-10	1.07E-09	2.34E-12	1.30E-09	3.20E-11	1.46E-10	3.48E-13	1.78E-10	1.97E-11	6.72E-11	8.08E-14	8.69E-11
1372	420569.6	3733982	2.31E-10	1.05E-09	2.31E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.63E-11	7.97E-14	8.58E-11
1373	420224.8	3734383	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.60E-11	1.64E-10	3.91E-13	2.00E-10	2.21E-11	7.54E-11	9.07E-14	9.76E-11
1374	420225	3734401	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.63E-10	3.87E-13	1.99E-10	2.19E-11	7.47E-11	8.98E-14	9.67E-11
1375	420197.5	3734344	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.24E-11	1.48E-10	3.52E-13	1.81E-10	1.99E-11	6.79E-11	8.17E-14	8.79E-11
1376	420203.9	3734328	2.46E-10	1.12E-09	2.46E-12	1.37E-09	3.37E-11	1.54E-10	3.66E-13	1.88E-10	2.07E-11	7.06E-11	8.49E-14	9.14E-11
1377	420210.3	3734312	2.55E-10	1.17E-09	2.55E-12	1.43E-09	3.50E-11	1.60E-10	3.80E-13	1.95E-10	2.15E-11	7.34E-11	8.82E-14	9.49E-11
1378	420267.8	3734170	3.11E-10	1.42E-09	3.11E-12	1.73E-09	4.26E-11	1.94E-10	4.63E-13	2.37E-10	2.61E-11	8.93E-11	1.07E-13	1.16E-10
1379	420280.6	3734139	3.05E-10	1.39E-09	3.05E-12	1.70E-09	4.18E-11	1.91E-10	4.54E-13	2.33E-10	2.56E-11	8.76E-11	1.05E-13	1.13E-10
1380	420287	3734123	2.99E-10	1.37E-09	2.99E-12	1.67E-09	4.10E-11	1.87E-10	4.45E-13	2.28E-10	2.51E-11	8.58E-11	1.03E-13	1.11E-10
1381	420293.4	3734108	2.91E-10	1.33E-09	2.91E-12	1.63E-09	3.99E-11	1.82E-10	4.34E-13	2.22E-10	2.45E-11	8.37E-11	1.01E-13	1.08E-10
1382	420299.8	3734092	2.82E-10	1.29E-09	2.82E-12	1.58E-09	3.87E-11	1.77E-10	4.20E-13	2.16E-10	2.38E-11	8.12E-11	9.76E-14	1.05E-10
1383	420306.2	3734076	2.73E-10	1.25E-09	2.72E-12	1.52E-09	3.74E-11	1.70E-10	4.06E-13	2.08E-10	2.29E-11	7.83E-11	9.42E-14	1.01E-10

1384	420312.6	3734060	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.59E-11	1.64E-10	3.90E-13	2.00E-10	2.20E-11	7.52E-11	9.05E-14	9.74E-11
1385	420366.2	3734025	2.46E-10	1.12E-09	2.45E-12	1.37E-09	3.37E-11	1.54E-10	3.66E-13	1.88E-10	2.07E-11	7.06E-11	8.49E-14	9.13E-11
1386	420421.3	3734003	2.31E-10	1.06E-09	2.31E-12	1.29E-09	3.17E-11	1.44E-10	3.44E-13	1.76E-10	1.94E-11	6.64E-11	7.98E-14	8.59E-11
1387	420437	3733996	2.26E-10	1.04E-09	2.26E-12	1.26E-09	3.10E-11	1.42E-10	3.37E-13	1.73E-10	1.90E-11	6.50E-11	7.82E-14	8.42E-11
1388	420468.4	3733983	2.17E-10	9.92E-10	2.17E-12	1.21E-09	2.98E-11	1.36E-10	3.23E-13	1.66E-10	1.83E-11	6.24E-11	7.50E-14	8.07E-11
1389	420484.2	3733977	2.13E-10	9.73E-10	2.13E-12	1.19E-09	2.92E-11	1.33E-10	3.17E-13	1.62E-10	1.79E-11	6.11E-11	7.35E-14	7.91E-11
1390	420515.6	3733964	2.05E-10	9.39E-10	2.05E-12	1.15E-09	2.81E-11	1.28E-10	3.06E-13	1.57E-10	1.73E-11	5.90E-11	7.09E-14	7.63E-11
1391	420531.4	3733958	2.02E-10	9.24E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.01E-13	1.54E-10	1.70E-11	5.81E-11	6.99E-14	7.52E-11
1392	420547.1	3733951	1.99E-10	9.12E-10	1.99E-12	1.11E-09	2.73E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.89E-14	7.42E-11
1393	420633.6	3733916	1.90E-10	8.69E-10	1.90E-12	1.06E-09	2.60E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.46E-11	6.56E-14	7.06E-11
1394	420184.8	3734384	2.18E-10	9.97E-10	2.18E-12	1.22E-09	2.99E-11	1.36E-10	3.24E-13	1.66E-10	1.83E-11	6.26E-11	7.53E-14	8.10E-11
1395	420185	3734401	2.16E-10	9.87E-10	2.16E-12	1.21E-09	2.96E-11	1.35E-10	3.21E-13	1.65E-10	1.82E-11	6.21E-11	7.46E-14	8.03E-11
1396	420157.7	3734344	1.99E-10	9.08E-10	1.98E-12	1.11E-09	2.72E-11	1.24E-10	2.96E-13	1.52E-10	1.67E-11	5.71E-11	6.86E-14	7.38E-11
1397	420164.2	3734328	2.06E-10	9.42E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.07E-13	1.57E-10	1.73E-11	5.92E-11	7.12E-14	7.66E-11
1398	420170.6	3734312	2.14E-10	9.77E-10	2.14E-12	1.19E-09	2.93E-11	1.34E-10	3.18E-13	1.63E-10	1.80E-11	6.14E-11	7.39E-14	7.95E-11
1399	420216.1	3734200	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.61E-11	1.65E-10	3.92E-13	2.01E-10	2.21E-11	7.56E-11	9.10E-14	9.79E-11
1400	420222.6	3734184	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.97E-13	2.04E-10	2.24E-11	7.67E-11	9.22E-14	9.92E-11
1401	420242	3734136	2.68E-10	1.23E-09	2.68E-12	1.50E-09	3.68E-11	1.68E-10	3.99E-13	2.05E-10	2.26E-11	7.71E-11	9.27E-14	9.97E-11
1402	420261.5	3734088	2.56E-10	1.17E-09	2.55E-12	1.43E-09	3.50E-11	1.60E-10	3.80E-13	1.95E-10	2.15E-11	7.34E-11	8.83E-14	9.50E-11
1403	420268	3734072	2.49E-10	1.14E-09	2.49E-12	1.39E-09	3.41E-11	1.56E-10	3.70E-13	1.90E-10	2.09E-11	7.15E-11	8.60E-14	9.25E-11
1404	420274.5	3734056	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.30E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.92E-11	8.33E-14	8.96E-11
1405	420287.5	3734024	2.23E-10	1.02E-09	2.23E-12	1.25E-09	3.06E-11	1.40E-10	3.32E-13	1.70E-10	1.88E-11	6.41E-11	7.71E-14	8.30E-11
1406	420298.7	3734013	2.18E-10	9.98E-10	2.18E-12	1.22E-09	2.99E-11	1.37E-10	3.25E-13	1.67E-10	1.84E-11	6.28E-11	7.55E-14	8.12E-11
1407	420338.6	3733997	2.15E-10	9.81E-10	2.14E-12	1.20E-09	2.94E-11	1.34E-10	3.19E-13	1.64E-10	1.80E-11	6.16E-11	7.41E-14	7.98E-11
1408	420354.5	3733990	2.12E-10	9.68E-10	2.12E-12	1.18E-09	2.90E-11	1.32E-10	3.15E-13	1.62E-10	1.78E-11	6.08E-11	7.32E-14	7.87E-11
1409	420394.4	3733974	2.03E-10	9.26E-10	2.02E-12	1.13E-09	2.78E-11	1.27E-10	3.01E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.53E-11
1410	420410.4	3733967	1.98E-10	9.07E-10	1.98E-12	1.11E-09	2.72E-11	1.24E-10	2.95E-13	1.52E-10	1.67E-11	5.70E-11	6.86E-14	7.38E-11
1411	420442.3	3733954	1.90E-10	8.71E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.47E-11	6.58E-14	7.08E-11
1412	420522.1	3733922	1.75E-10	7.99E-10	1.75E-12	9.75E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.04E-14	6.49E-11
1413	420538	3733915	1.73E-10	7.89E-10	1.72E-12	9.63E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.96E-14	6.42E-11
1414	420633.8	3733876	1.65E-10	7.53E-10	1.65E-12	9.20E-10	2.26E-11	1.03E-10	2.45E-13	1.26E-10	1.39E-11	4.74E-11	5.69E-14	6.13E-11
1415	420144.8	3734384	1.84E-10	8.41E-10	1.84E-12	1.03E-09	2.52E-11	1.15E-10	2.74E-13	1.40E-10	1.55E-11	5.28E-11	6.35E-14	6.84E-11
1416	420145	3734402	1.82E-10	8.33E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.24E-11	6.30E-14	6.78E-11
1417	420117.6	3734344	1.69E-10	7.71E-10	1.69E-12	9.42E-10	2.31E-11	1.05E-10	2.51E-13	1.29E-10	1.42E-11	4.85E-11	5.83E-14	6.27E-11
1418	420124	3734329	1.75E-10	7.98E-10	1.75E-12	9.75E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.03E-14	6.49E-11
1419	420130.4	3734313	1.81E-10	8.26E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.19E-11	6.25E-14	6.72E-11
1420	420175.5	3734202	2.24E-10	1.03E-09	2.24E-12	1.25E-09	3.08E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.45E-11	7.76E-14	8.34E-11
1421	420181.9	3734186	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.14E-11	1.43E-10	3.41E-13	1.75E-10	1.92E-11	6.57E-11	7.91E-14	8.51E-11
1422	420188.4	3734170	2.32E-10	1.06E-09	2.32E-12	1.30E-09	3.18E-11	1.45E-10	3.46E-13	1.77E-10	1.95E-11	6.67E-11	8.02E-14	8.63E-11
1423	420201.2	3734139	2.36E-10	1.08E-09	2.35E-12	1.32E-09	3.23E-11	1.47E-10	3.51E-13	1.80E-10	1.98E-11	6.77E-11	8.14E-14	8.76E-11
1424	420207.7	3734123	2.35E-10	1.08E-09	2.35E-12	1.31E-09	3.23E-11	1.47E-10	3.50E-13	1.80E-10	1.98E-11	6.76E-11	8.13E-14	8.75E-11
1425	420214.1	3734107	2.34E-10	1.07E-09	2.34E-12	1.31E-09	3.21E-11	1.46E-10	3.48E-13	1.79E-10	1.97E-11	6.72E-11	8.09E-14	8.70E-11
1426	420220.6	3734091	2.31E-10	1.06E-09	2.31E-12	1.29E-09	3.17E-11	1.45E-10	3.44E-13	1.77E-10	1.95E-11	6.65E-11	7.99E-14	8.60E-11
1427	420227	3734075	2.28E-10	1.04E-09	2.27E-12	1.27E-09	3.12E-11	1.42E-10	3.39E-13	1.74E-10	1.91E-11	6.54E-11	7.86E-14	8.46E-11
1428	420233.4	3734059	2.23E-10	1.02E-09	2.23E-12	1.24E-09	3.05E-11	1.39E-10	3.32E-13	1.70E-10	1.87E-11	6.40E-11	7.70E-14	8.28E-11
1429	420270.3	3733985	1.92E-10	8.80E-10	1.92E-12	1.07E-09	2.64E-11	1.20E-10	2.86E-13	1.47E-10	1.62E-11	5.53E-11	6.65E-14	7.15E-11
1430	420286.1	3733978	1.92E-10	8.76E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.51E-11	6.62E-14	7.13E-11
1431	420317.8	3733965	1.88E-10	8.61E-10	1.88E-12	1.05E-09	2.58E-11	1.18E-10	2.80E-13	1.44E-10	1.58E-11	5.41E-11	6.51E-14	7.00E-11
1432	420333.6	3733959	1.86E-10	8.49E-10	1.86E-12	1.04E-09	2.55E-11	1.16E-10	2.77E-13	1.42E-10	1.56E-11	5.34E-11	6.42E-14	6.91E-11
1433	420420.7	3733923	1.68E-10	7.67E-10	1.68E-12	9.37E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.82E-11	5.80E-14	6.24E-11
1434	420436.5	3733917	1.65E-10	7.52E-10	1.64E-12	9.19E-10	2.26E-11	1.03E-10	2.45E-13	1.26E-10	1.38E-11	4.73E-11	5.69E-14	6.12E-11
1435	420452.3	3733910	1.62E-10	7.39E-10	1.61E-12	9.02E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.64E-11	5.58E-14	6.01E-11
1436	420468.1	3733904	1.59E-10	7.26E-10	1.59E-12	8.86E-10	2.18E-11	9.93E-11	2.36E-13	1.21E-10	1.34E-11	4.56E-11	5.49E-14	5.90E-11
1437	420484	3733897	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.78E-11	2.33E-13	1.19E-10	1.32E-11	4.49E-11	5.40E-14	5.82E-11
1438	420499.8	3733891	1.54E-10	7.05E-10	1.54E-12	8.61E-10	2.11E-11	9.65E-11	2.30E-13	1.18E-10	1.30E-11	4.43E-11	5.33E-14	5.74E-11
1439	420515.6	3733885	1.52E-10	6.97E-10	1.52E-12	8.51E-10	2.09E-11	9.53E-11	2.27E-13	1.16E-10	1.28E-11	4.38E-11	5.27E-14	5.67E-11
1440	420602.7	3733849	1.46E-10	6.68E-10	1.46E-12	8.16E-10	2.00E-11	9.14E-11	2.18E-13	1.12E-10	1.23E-11	4.20E-11	5.05E-14	5.43E-11
1441	420104.7	3734376	1.58E-10	7.21E-10	1.58E-12	8.81E-10	2.16E-11	9.87E-11	2.35E-13	1.21E-10	1.33E-11	4.53E-11	5.45E-14	5.87E-11
1442	420104.9	3734393	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.78E-11	2.33E-13	1.19E-10	1.32E-11	4.50E-11	5.41E-14	5.82E-11
1443	420077.7	3734345	1.45E-10	6.64E-10	1.45E-12	8.11E-10	1.99E-11	9.08E-11	2.16E-13	1.11E-10	1.22E-11	4.18E-11	5.02E-14	5.40E-11
1444	420084.2	3734329	1.50E-10	6.86E-10	1.50E-12	8.38E-10	2.06E-11	9.38E-11	2.23E-13	1.15E-10	1.26E-11	4.31E-11	5.19E-14	5.58E-11
1445	420090.8	3734312	1.55E-10	7.09E-10	1.55E-12	8.66E-10	2.13E-11	9.70E-11	2.31E-13	1.18E-10	1.30E-11	4.46E-11	5.36E-14	5.77E-11
1446	420146.1	3734176	2.00E-10	9.13E-10	2.00E-12	1.11E-09	2.74E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.74E-11	6.90E-14	7.42E-11
1447	420159.2	3734144	2.06E-10	9.41E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.06E-13	1.57E-10	1.73E-11	5.91E-11	7.11E-14	7.65E-11
1448	420165.7	3734128	2.07E-10	9.48E-10	2.07E-12	1.16E-09	2.84E-11	1.30E-10	3.09E-13	1.58E-10	1.74E-11	5.96E-11	7.17E-14	7.71E-11
1449	420172.2	3734112	2.08E-10	9.51E-10	2.08E-12	1.16E-09	2.85E-11	1.30E-10	3.10E-13	1.59E-10	1.75E-11	5.98E-11	7.19E-14	7.73E-11
1450	420178.7	3734096	2.08E-10	9.49E-10	2.07E-12	1.16E-09	2.84E-11	1.30E-10	3.09E-13	1.58E-10	1.75E-11	5.96E-11	7.17E-14	7.72E-11
1451	420185.2	3734080	2.06E-10	9.42E-10	2.06E-12	1.15E-09	2.83E-11	1.29E-10	3.07E-13	1.57E-10	1.73E-11	5.92E-11	7.12E-14	7.66E-11
1452	420191.7	3734064	2.04E-10	9.32E-10	2.04E-12	1.14E-09	2.79E-11	1.27E-10	3.03E-13	1.56E-10	1.71E-11	5.86E-11	7.04E-14	7.58E-11
1453	420204.8	3734032	1.96E-10	8.98E-10	1.96E-12	1.10E-09	2.69E-11	1.23E-10	2.92E-13	1.50E-10	1.65E-11	5.64E-11	6.79E-14	7.30E-11
1454	420211.3	3734016	1.92E-10	8.76E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.51E-11	6.62E-14	7.12E-11
1455	420217.8	3734000	1.86E-10	8.52E-10	1.86E-12	1.04E-09	2.55E-11	1.16E-10	2.77E-13	1.42E-10	1.57E-11	5.35E-11	6.44E-14	6.93E-11
1456	420242.1	3733957	1.71E-10	7.82E-10	1.71E-12	9.54E-10	2.34E-11	1.07E-10	2.54E-13	1.31E-10	1.44E-11	4.91E-11	5.91E-14	6.36E-11

1457	420346.2	3733914	1.59E-10	7.27E-10	1.59E-12	8.87E-10	2.18E-11	9.94E-11	2.37E-13	1.21E-10	1.34E-11	4.57E-11	5.49E-14	5.91E-11
1458	420362.2	3733907	1.56E-10	7.13E-10	1.56E-12	8.71E-10	2.14E-11	9.75E-11	2.32E-13	1.19E-10	1.31E-11	4.48E-11	5.39E-14	5.80E-11
1459	420394.3	3733894	1.50E-10	6.86E-10	1.50E-12	8.38E-10	2.06E-11	9.38E-11	2.23E-13	1.15E-10	1.26E-11	4.31E-11	5.19E-14	5.58E-11
1460	420410.3	3733888	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.21E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.47E-11
1461	420426.3	3733881	1.45E-10	6.61E-10	1.44E-12	8.07E-10	1.98E-11	9.04E-11	2.15E-13	1.10E-10	1.22E-11	4.15E-11	4.99E-14	5.37E-11
1462	420442.3	3733875	1.42E-10	6.50E-10	1.42E-12	7.93E-10	1.95E-11	8.88E-11	2.11E-13	1.09E-10	1.20E-11	4.08E-11	4.91E-14	5.28E-11
1463	420458.3	3733868	1.40E-10	6.39E-10	1.40E-12	7.81E-10	1.92E-11	8.74E-11	2.08E-13	1.07E-10	1.18E-11	4.02E-11	4.83E-14	5.20E-11
1464	420474.3	3733862	1.38E-10	6.30E-10	1.38E-12	7.70E-10	1.89E-11	8.62E-11	2.05E-13	1.05E-10	1.16E-11	3.96E-11	4.77E-14	5.13E-11
1465	420490.4	3733855	1.36E-10	6.23E-10	1.36E-12	7.60E-10	1.87E-11	8.52E-11	2.03E-13	1.04E-10	1.15E-11	3.91E-11	4.71E-14	5.06E-11
1466	420506.4	3733848	1.35E-10	6.16E-10	1.35E-12	7.52E-10	1.85E-11	8.42E-11	2.01E-13	1.03E-10	1.13E-11	3.87E-11	4.66E-14	5.01E-11
1467	420586.5	3733816	1.30E-10	5.95E-10	1.30E-12	7.26E-10	1.78E-11	8.13E-11	1.94E-13	9.94E-11	1.09E-11	3.74E-11	4.50E-14	4.84E-11
1468	420602.5	3733809	1.30E-10	5.92E-10	1.29E-12	7.23E-10	1.78E-11	8.10E-11	1.93E-13	9.89E-11	1.09E-11	3.72E-11	4.48E-14	4.82E-11
1469	420634.5	3733796	1.28E-10	5.87E-10	1.28E-12	7.17E-10	1.76E-11	8.03E-11	1.91E-13	9.81E-11	1.08E-11	3.69E-11	4.44E-14	4.77E-11
1470	420064.7	3734377	1.36E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.53E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.71E-14	5.07E-11
1471	420064.9	3734394	1.35E-10	6.19E-10	1.35E-12	7.55E-10	1.85E-11	8.46E-11	2.01E-13	1.03E-10	1.14E-11	3.89E-11	4.68E-14	5.03E-11
1472	420031.2	3734361	1.23E-10	5.61E-10	1.23E-12	6.85E-10	1.68E-11	7.67E-11	1.83E-13	9.37E-11	1.03E-11	3.53E-11	4.24E-14	4.56E-11
1473	420037.6	3734345	1.26E-10	5.78E-10	1.26E-12	7.06E-10	1.73E-11	7.90E-11	1.88E-13	9.65E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
1474	420044.1	3734329	1.30E-10	5.96E-10	1.30E-12	7.27E-10	1.79E-11	8.14E-11	1.94E-13	9.95E-11	1.10E-11	3.74E-11	4.50E-14	4.84E-11
1475	420050.6	3734313	1.34E-10	6.14E-10	1.34E-12	7.50E-10	1.84E-11	8.40E-11	2.00E-13	1.03E-10	1.13E-11	3.86E-11	4.64E-14	4.99E-11
1476	420095.8	3734202	1.67E-10	7.61E-10	1.66E-12	9.30E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.19E-11
1477	420102.3	3734186	1.71E-10	7.81E-10	1.71E-12	9.53E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.44E-11	4.91E-11	5.90E-14	6.35E-11
1478	420108.8	3734170	1.75E-10	7.99E-10	1.75E-12	9.75E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.04E-14	6.49E-11
1479	420121.7	3734138	1.81E-10	8.27E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.20E-11	6.25E-14	6.73E-11
1480	420128.2	3734122	1.83E-10	8.38E-10	1.83E-12	1.02E-09	2.51E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.26E-11	6.33E-14	6.81E-11
1481	420147.6	3734075	1.85E-10	8.45E-10	1.85E-12	1.03E-09	2.53E-11	1.16E-10	2.75E-13	1.41E-10	1.56E-11	5.31E-11	6.39E-14	6.87E-11
1482	420154	3734059	1.84E-10	8.40E-10	1.84E-12	1.03E-09	2.52E-11	1.15E-10	2.74E-13	1.40E-10	1.55E-11	5.28E-11	6.35E-14	6.83E-11
1483	420167	3734027	1.79E-10	8.20E-10	1.79E-12	1.00E-09	2.46E-11	1.12E-10	2.67E-13	1.37E-10	1.51E-11	5.15E-11	6.20E-14	6.67E-11
1484	420173.4	3734011	1.76E-10	8.05E-10	1.76E-12	9.83E-10	2.41E-11	1.10E-10	2.62E-13	1.35E-10	1.48E-11	5.06E-11	6.09E-14	6.55E-11
1485	420179.9	3733995	1.72E-10	7.88E-10	1.72E-12	9.62E-10	2.36E-11	1.08E-10	2.56E-13	1.32E-10	1.45E-11	4.95E-11	5.95E-14	6.41E-11
1486	420213.7	3733928	1.53E-10	7.00E-10	1.53E-12	8.54E-10	2.10E-11	9.57E-11	2.28E-13	1.17E-10	1.29E-11	4.40E-11	5.29E-14	5.69E-11
1487	420229.6	3733922	1.53E-10	6.98E-10	1.53E-12	8.52E-10	2.09E-11	9.55E-11	2.27E-13	1.17E-10	1.28E-11	4.39E-11	5.28E-14	5.68E-11
1488	420269.4	3733906	1.50E-10	6.85E-10	1.50E-12	8.36E-10	2.05E-11	9.37E-11	2.23E-13	1.14E-10	1.26E-11	4.30E-11	5.18E-14	5.57E-11
1489	420285.3	3733899	1.48E-10	6.77E-10	1.48E-12	8.26E-10	2.03E-11	9.25E-11	2.20E-13	1.13E-10	1.25E-11	4.25E-11	5.11E-14	5.50E-11
1490	420317.1	3733886	1.43E-10	6.56E-10	1.43E-12	8.01E-10	1.97E-11	8.97E-11	2.14E-13	1.10E-10	1.21E-11	4.12E-11	4.96E-14	5.33E-11
1491	420333	3733880	1.41E-10	6.44E-10	1.41E-12	7.87E-10	1.93E-11	8.81E-11	2.10E-13	1.08E-10	1.19E-11	4.05E-11	4.87E-14	5.24E-11
1492	420364.8	3733867	1.36E-10	6.21E-10	1.36E-12	7.58E-10	1.86E-11	8.49E-11	2.02E-13	1.04E-10	1.14E-11	3.90E-11	4.69E-14	5.05E-11
1493	420396.6	3733854	1.31E-10	5.99E-10	1.31E-12	7.31E-10	1.80E-11	8.19E-11	1.95E-13	1.00E-10	1.10E-11	3.76E-11	4.53E-14	4.87E-11
1494	420412.5	3733847	1.29E-10	5.89E-10	1.29E-12	7.19E-10	1.76E-11	8.05E-11	1.92E-13	9.83E-11	1.08E-11	3.70E-11	4.45E-14	4.79E-11
1495	420428.4	3733841	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.89E-13	9.68E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
1496	420444.3	3733834	1.25E-10	5.71E-10	1.25E-12	6.97E-10	1.71E-11	7.81E-11	1.86E-13	9.54E-11	1.05E-11	3.59E-11	4.31E-14	4.64E-11
1497	420460.2	3733828	1.23E-10	5.63E-10	1.23E-12	6.88E-10	1.69E-11	7.70E-11	1.83E-13	9.41E-11	1.04E-11	3.54E-11	4.26E-14	4.58E-11
1498	420476.1	3733821	1.22E-10	5.57E-10	1.22E-12	6.80E-10	1.67E-11	7.61E-11	1.81E-13	9.30E-11	1.02E-11	3.50E-11	4.21E-14	4.53E-11
1499	420492	3733815	1.21E-10	5.51E-10	1.20E-12	6.73E-10	1.65E-11	7.54E-11	1.79E-13	9.21E-11	1.01E-11	3.46E-11	4.16E-14	4.48E-11
1500	420571.5	3733782	1.17E-10	5.34E-10	1.17E-12	6.52E-10	1.60E-11	7.30E-11	1.74E-13	8.92E-11	9.82E-12	3.36E-11	4.03E-14	4.34E-11
1501	420587.4	3733776	1.16E-10	5.32E-10	1.16E-12	6.49E-10	1.59E-11	7.27E-11	1.73E-13	8.88E-11	9.78E-12	3.34E-11	4.02E-14	4.32E-11
1502	420603.2	3733769	1.16E-10	5.30E-10	1.16E-12	6.47E-10	1.59E-11	7.25E-11	1.72E-13	8.85E-11	9.75E-12	3.33E-11	4.00E-14	4.31E-11
1503	420024.7	3734377	1.19E-10	5.45E-10	1.19E-12	6.66E-10	1.63E-11	7.45E-11	1.77E-13	9.11E-11	1.00E-11	3.43E-11	4.12E-14	4.43E-11
1504	420024.9	3734394	1.18E-10	5.41E-10	1.18E-12	6.60E-10	1.62E-11	7.40E-11	1.76E-13	9.03E-11	9.95E-12	3.40E-11	4.09E-14	4.40E-11
1505	419988	3734370	1.07E-10	4.88E-10	1.07E-12	5.96E-10	1.46E-11	6.67E-11	1.59E-13	8.15E-11	8.98E-12	3.07E-11	3.69E-14	3.97E-11
1506	419994.5	3734353	1.10E-10	5.02E-10	1.10E-12	6.12E-10	1.50E-11	6.86E-11	1.63E-13	8.38E-11	9.23E-12	3.15E-11	3.79E-14	4.08E-11
1507	420001	3734337	1.13E-10	5.16E-10	1.13E-12	6.29E-10	1.55E-11	7.05E-11	1.68E-13	8.61E-11	9.49E-12	3.24E-11	3.90E-14	4.19E-11
1508	420007.6	3734321	1.16E-10	5.31E-10	1.16E-12	6.48E-10	1.59E-11	7.26E-11	1.73E-13	8.86E-11	9.76E-12	3.33E-11	4.01E-14	4.32E-11
1509	420059.8	3734193	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.21E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.47E-11
1510	420066.4	3734177	1.51E-10	6.91E-10	1.51E-12	8.43E-10	2.07E-11	9.45E-11	2.25E-13	1.15E-10	1.27E-11	4.34E-11	5.22E-14	5.62E-11
1511	420079.4	3734144	1.58E-10	7.22E-10	1.58E-12	8.81E-10	2.16E-11	9.87E-11	2.35E-13	1.21E-10	1.33E-11	4.54E-11	5.46E-14	5.87E-11
1512	420086	3734128	1.61E-10	7.35E-10	1.61E-12	8.98E-10	2.20E-11	1.01E-10	2.39E-13	1.23E-10	1.35E-11	4.62E-11	5.56E-14	5.98E-11
1513	420092.5	3734112	1.63E-10	7.46E-10	1.63E-12	9.10E-10	2.24E-11	1.02E-10	2.43E-13	1.25E-10	1.37E-11	4.69E-11	5.64E-14	6.06E-11
1514	420099	3734096	1.65E-10	7.53E-10	1.65E-12	9.20E-10	2.26E-11	1.03E-10	2.45E-13	1.26E-10	1.39E-11	4.73E-11	5.69E-14	6.12E-11
1515	420105.6	3734080	1.66E-10	7.57E-10	1.66E-12	9.25E-10	2.27E-11	1.04E-10	2.47E-13	1.27E-10	1.39E-11	4.76E-11	5.72E-14	6.16E-11
1516	420112.1	3734064	1.66E-10	7.59E-10	1.66E-12	9.26E-10	2.28E-11	1.04E-10	2.47E-13	1.27E-10	1.40E-11	4.77E-11	5.73E-14	6.17E-11
1517	420125.2	3734032	1.65E-10	7.52E-10	1.64E-12	9.19E-10	2.26E-11	1.03E-10	2.45E-13	1.26E-10	1.38E-11	4.73E-11	5.69E-14	6.12E-11
1518	420131.7	3734016	1.63E-10	7.45E-10	1.63E-12	9.09E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.68E-11	5.63E-14	6.06E-11
1519	420138.3	3734000	1.61E-10	7.34E-10	1.61E-12	8.97E-10	2.20E-11	1.00E-10	2.39E-13	1.23E-10	1.35E-11	4.62E-11	5.55E-14	5.97E-11
1520	420144.8	3733984	1.58E-10	7.21E-10	1.58E-12	8.81E-10	2.16E-11	9.87E-11	2.35E-13	1.21E-10	1.33E-11	4.53E-11	5.45E-14	5.87E-11
1521	420151.3	3733968	1.55E-10	7.06E-10	1.54E-12	8.62E-10	2.12E-11	9.66E-11	2.30E-13	1.18E-10	1.30E-11	4.44E-11	5.34E-14	5.75E-11
1522	420157.9	3733952	1.51E-10	6.90E-10	1.51E-12	8.42E-10	2.07E-11	9.43E-11	2.25E-13	1.15E-10	1.27E-11	4.34E-11	5.21E-14	5.61E-11
1523	420170.9	3733919	1.43E-10	6.52E-10	1.43E-12	7.96E-10	1.96E-11	8.92E-11	2.12E-13	1.09E-10	1.20E-11	4.10E-11	4.93E-14	5.30E-11
1524	420185.5	3733900	1.38E-10	6.32E-10	1.38E-12	7.71E-10	1.89E-11	8.64E-11	2.06E-13	1.06E-10	1.16E-11	3.97E-11	4.78E-14	5.14E-11
1525	420201.6	3733893	1.38E-10	6.30E-10	1.38E-12	7.69E-10	1.89E-11	8.62E-11	2.05E-13	1.05E-10	1.16E-11	3.96E-11	4.76E-14	5.13E-11
1526	420241.7	3733877	1.35E-10	6.19E-10	1.35E-12	7.56E-10	1.86E-11	8.47E-11	2.02E-13	1.03E-10	1.14E-11	3.89E-11	4.68E-14	5.04E-11
1527	420289.9	3733857	1.30E-10	5.95E-10	1.30E-12	7.26E-10	1.78E-11	8.13E-11	1.94E-13	9.93E-11	1.09E-11	3.74E-11	4.49E-14	4.83E-11
1528	420306	3733851	1.28E-10	5.85E-10	1.28E-12	7.14E-10	1.75E-11	7.99E-11	1.90E-13	9.77E-11	1.08E-11	3.67E-11	4.42E-14	4.75E-11
1529	420338.1	3733838	1.23E-10	5.64E-10	1.23E-12	6.89E-10	1.69E-11	7.71E-11	1.84E-13	9.42E-11	1.04E-11	3.55E-11	4.26E-14	4.59E-11

1530	420402.4	3733811	1.15E-10	5.27E-10	1.15E-12	6.43E-10	1.58E-11	7.20E-11	1.71E-13	8.80E-11	9.69E-12	3.31E-11	3.98E-14	4.28E-11
1531	420418.4	3733805	1.13E-10	5.19E-10	1.13E-12	6.33E-10	1.56E-11	7.09E-11	1.69E-13	8.67E-11	9.55E-12	3.26E-11	3.92E-14	4.22E-11
1532	420434.5	3733798	1.12E-10	5.12E-10	1.12E-12	6.25E-10	1.53E-11	7.00E-11	1.67E-13	8.55E-11	9.42E-12	3.22E-11	3.87E-14	4.16E-11
1533	420450.6	3733792	1.11E-10	5.06E-10	1.11E-12	6.17E-10	1.52E-11	6.91E-11	1.65E-13	8.45E-11	9.30E-12	3.18E-11	3.82E-14	4.11E-11
1534	420466.6	3733785	1.09E-10	5.00E-10	1.09E-12	6.11E-10	1.50E-11	6.84E-11	1.63E-13	8.36E-11	9.21E-12	3.14E-11	3.78E-14	4.07E-11
1535	420555	3733749	1.06E-10	4.83E-10	1.06E-12	5.90E-10	1.45E-11	6.60E-11	1.57E-13	8.07E-11	8.89E-12	3.03E-11	3.65E-14	3.93E-11
1536	420571	3733742	1.05E-10	4.81E-10	1.05E-12	5.88E-10	1.44E-11	6.58E-11	1.57E-13	8.04E-11	8.86E-12	3.02E-11	3.64E-14	3.91E-11
1537	420587.1	3733736	1.05E-10	4.80E-10	1.05E-12	5.86E-10	1.44E-11	6.56E-11	1.56E-13	8.02E-11	8.83E-12	3.02E-11	3.63E-14	3.90E-11
1538	420603.2	3733729	1.05E-10	4.79E-10	1.05E-12	5.84E-10	1.43E-11	6.54E-11	1.56E-13	7.99E-11	8.81E-12	3.01E-11	3.62E-14	3.89E-11
1539	420619.2	3733723	1.04E-10	4.77E-10	1.04E-12	5.83E-10	1.43E-11	6.53E-11	1.55E-13	7.98E-11	8.79E-12	3.00E-11	3.61E-14	3.88E-11
1540	419984.8	3734386	1.05E-10	4.80E-10	1.05E-12	5.86E-10	1.44E-11	6.56E-11	1.56E-13	8.01E-11	8.83E-12	3.01E-11	3.63E-14	3.90E-11
1541	419985	3734404	1.04E-10	4.76E-10	1.04E-12	5.81E-10	1.43E-11	6.51E-11	1.55E-13	7.95E-11	8.76E-12	2.99E-11	3.60E-14	3.87E-11
1542	419947.9	3734370	9.50E-11	4.34E-10	9.49E-13	5.30E-10	1.30E-11	5.94E-11	1.41E-13	7.25E-11	7.99E-12	2.73E-11	3.28E-14	3.53E-11
1543	419954.4	3734354	9.75E-11	4.46E-10	9.74E-13	5.44E-10	1.34E-11	6.09E-11	1.45E-13	7.44E-11	8.20E-12	2.80E-11	3.37E-14	3.62E-11
1544	419960.9	3734338	1.00E-10	4.57E-10	9.99E-13	5.58E-10	1.37E-11	6.25E-11	1.49E-13	7.64E-11	8.41E-12	2.87E-11	3.45E-14	3.72E-11
1545	419967.4	3734322	1.03E-10	4.69E-10	1.03E-12	5.73E-10	1.41E-11	6.42E-11	1.53E-13	7.84E-11	8.63E-12	2.95E-11	3.55E-14	3.82E-11
1546	419973.9	3734306	1.05E-10	4.82E-10	1.05E-12	5.89E-10	1.45E-11	6.59E-11	1.57E-13	8.05E-11	8.87E-12	3.03E-11	3.64E-14	3.92E-11
1547	419980.4	3734290	1.08E-10	4.96E-10	1.08E-12	6.05E-10	1.49E-11	6.78E-11	1.61E-13	8.28E-11	9.12E-12	3.12E-11	3.75E-14	4.03E-11
1548	419993.4	3734258	1.15E-10	5.25E-10	1.15E-12	6.41E-10	1.57E-11	7.18E-11	1.71E-13	8.77E-11	9.66E-12	3.30E-11	3.97E-14	4.27E-11
1549	419999.9	3734242	1.18E-10	5.41E-10	1.18E-12	6.60E-10	1.62E-11	7.39E-11	1.76E-13	9.03E-11	9.95E-12	3.40E-11	4.09E-14	4.40E-11
1550	420006.4	3734226	1.22E-10	5.57E-10	1.22E-12	6.80E-10	1.67E-11	7.61E-11	1.81E-13	9.30E-11	1.02E-11	3.50E-11	4.21E-14	4.53E-11
1551	420012.8	3734210	1.25E-10	5.73E-10	1.25E-12	6.99E-10	1.72E-11	7.83E-11	1.86E-13	9.57E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
1552	420019.3	3734194	1.29E-10	5.89E-10	1.29E-12	7.19E-10	1.77E-11	8.05E-11	1.92E-13	9.84E-11	1.08E-11	3.70E-11	4.45E-14	4.79E-11
1553	420038.8	3734147	1.39E-10	6.34E-10	1.39E-12	7.74E-10	1.90E-11	8.67E-11	2.07E-13	1.06E-10	1.17E-11	3.99E-11	4.79E-14	5.16E-11
1554	420045.3	3734131	1.42E-10	6.47E-10	1.42E-12	7.90E-10	1.94E-11	8.85E-11	2.11E-13	1.08E-10	1.19E-11	4.07E-11	4.89E-14	5.26E-11
1555	420051.8	3734115	1.44E-10	6.59E-10	1.44E-12	8.05E-10	1.98E-11	9.01E-11	2.15E-13	1.10E-10	1.21E-11	4.14E-11	4.98E-14	5.36E-11
1556	420058.3	3734099	1.46E-10	6.69E-10	1.46E-12	8.17E-10	2.01E-11	9.15E-11	2.18E-13	1.12E-10	1.23E-11	4.20E-11	5.06E-14	5.44E-11
1557	420064.8	3734083	1.48E-10	6.76E-10	1.48E-12	8.26E-10	2.03E-11	9.25E-11	2.20E-13	1.13E-10	1.24E-11	4.25E-11	5.11E-14	5.50E-11
1558	420071.3	3734067	1.49E-10	6.81E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
1559	420090.7	3734019	1.49E-10	6.82E-10	1.49E-12	8.33E-10	2.04E-11	9.33E-11	2.22E-13	1.14E-10	1.25E-11	4.29E-11	5.15E-14	5.55E-11
1560	420097.2	3734003	1.48E-10	6.77E-10	1.48E-12	8.27E-10	2.03E-11	9.26E-11	2.20E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
1561	420103.7	3733987	1.47E-10	6.70E-10	1.47E-12	8.18E-10	2.01E-11	9.16E-11	2.18E-13	1.12E-10	1.23E-11	4.21E-11	5.07E-14	5.45E-11
1562	420110.2	3733971	1.45E-10	6.61E-10	1.45E-12	8.07E-10	1.98E-11	9.04E-11	2.15E-13	1.10E-10	1.22E-11	4.15E-11	5.00E-14	5.38E-11
1563	420116.7	3733955	1.42E-10	6.50E-10	1.42E-12	7.93E-10	1.95E-11	8.89E-11	2.12E-13	1.09E-10	1.20E-11	4.08E-11	4.91E-14	5.28E-11
1564	420142.7	3733891	1.29E-10	5.91E-10	1.29E-12	7.22E-10	1.77E-11	8.08E-11	1.92E-13	9.87E-11	1.09E-11	3.71E-11	4.47E-14	4.81E-11
1565	420157.1	3733872	1.26E-10	5.74E-10	1.25E-12	7.01E-10	1.72E-11	7.85E-11	1.87E-13	9.59E-11	1.06E-11	3.61E-11	4.34E-14	4.67E-11
1566	420173.1	3733865	1.25E-10	5.73E-10	1.25E-12	6.99E-10	1.72E-11	7.83E-11	1.86E-13	9.56E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
1567	420189	3733859	1.25E-10	5.70E-10	1.25E-12	6.96E-10	1.71E-11	7.80E-11	1.86E-13	9.52E-11	1.05E-11	3.58E-11	4.31E-14	4.64E-11
1568	420205	3733852	1.24E-10	5.66E-10	1.24E-12	6.91E-10	1.70E-11	7.74E-11	1.84E-13	9.46E-11	1.04E-11	3.56E-11	4.28E-14	4.60E-11
1569	420220.9	3733846	1.23E-10	5.61E-10	1.23E-12	6.85E-10	1.68E-11	7.67E-11	1.83E-13	9.37E-11	1.03E-11	3.53E-11	4.24E-14	4.56E-11
1570	420236.9	3733839	1.21E-10	5.55E-10	1.21E-12	6.77E-10	1.66E-11	7.58E-11	1.81E-13	9.26E-11	1.02E-11	3.49E-11	4.19E-14	4.51E-11
1571	420316.7	3733807	1.12E-10	5.13E-10	1.12E-12	6.26E-10	1.54E-11	7.01E-11	1.67E-13	8.56E-11	9.43E-12	3.22E-11	3.87E-14	4.17E-11
1572	420332.6	3733800	1.10E-10	5.04E-10	1.10E-12	6.15E-10	1.51E-11	6.89E-11	1.64E-13	8.42E-11	9.27E-12	3.17E-11	3.81E-14	4.10E-11
1573	420348.6	3733793	1.08E-10	4.95E-10	1.08E-12	6.05E-10	1.49E-11	6.78E-11	1.61E-13	8.28E-11	9.12E-12	3.11E-11	3.74E-14	4.03E-11
1574	420388.5	3733777	1.04E-10	4.76E-10	1.04E-12	5.82E-10	1.43E-11	6.51E-11	1.55E-13	7.96E-11	8.77E-12	2.99E-11	3.60E-14	3.87E-11
1575	420404.4	3733771	1.03E-10	4.70E-10	1.03E-12	5.74E-10	1.41E-11	6.43E-11	1.53E-13	7.85E-11	8.65E-12	2.95E-11	3.55E-14	3.82E-11
1576	420420.4	3733764	1.02E-10	4.64E-10	1.01E-12	5.67E-10	1.39E-11	6.35E-11	1.51E-13	7.75E-11	8.54E-12	2.92E-11	3.51E-14	3.77E-11
1577	420436.4	3733758	1.00E-10	4.59E-10	1.00E-12	5.60E-10	1.38E-11	6.27E-11	1.49E-13	7.66E-11	8.44E-12	2.88E-11	3.47E-14	3.73E-11
1578	420452.3	3733751	9.93E-11	4.54E-10	9.93E-13	5.54E-10	1.36E-11	6.21E-11	1.48E-13	7.59E-11	8.36E-12	2.85E-11	3.43E-14	3.69E-11
1579	420468.3	3733745	9.85E-11	4.50E-10	9.85E-13	5.50E-10	1.35E-11	6.16E-11	1.47E-13	7.52E-11	8.29E-12	2.83E-11	3.40E-14	3.66E-11
1580	420548	3733712	9.60E-11	4.39E-10	9.59E-13	5.36E-10	1.32E-11	6.00E-11	1.43E-13	7.33E-11	8.08E-12	2.76E-11	3.32E-14	3.57E-11
1581	420564	3733705	9.57E-11	4.38E-10	9.57E-13	5.34E-10	1.31E-11	5.99E-11	1.43E-13	7.31E-11	8.06E-12	2.75E-11	3.31E-14	3.56E-11
1582	420580	3733699	9.56E-11	4.37E-10	9.55E-13	5.33E-10	1.31E-11	5.98E-11	1.42E-13	7.30E-11	8.04E-12	2.75E-11	3.30E-14	3.55E-11
1583	420595.9	3733692	9.54E-11	4.36E-10	9.53E-13	5.33E-10	1.31E-11	5.96E-11	1.42E-13	7.29E-11	8.03E-12	2.74E-11	3.30E-14	3.55E-11
1584	420611.9	3733686	9.52E-11	4.35E-10	9.52E-13	5.32E-10	1.31E-11	5.95E-11	1.42E-13	7.27E-11	8.01E-12	2.74E-11	3.29E-14	3.54E-11
1585	419944.8	3734387	9.35E-11	4.27E-10	9.34E-13	5.22E-10	1.28E-11	5.84E-11	1.39E-13	7.14E-11	7.86E-12	2.69E-11	3.23E-14	3.48E-11
1586	419945	3734404	9.28E-11	4.24E-10	9.27E-13	5.18E-10	1.27E-11	5.80E-11	1.38E-13	7.08E-11	7.80E-12	2.67E-11	3.21E-14	3.45E-11
1587	420639.9	3734404	1.24E-08	5.68E-08	1.24E-10	6.94E-08	1.70E-09	7.77E-09	1.85E-11	9.50E-09	1.05E-09	3.57E-09	4.30E-12	4.62E-09
1588	420648.3	3734409	1.59E-08	7.26E-08	1.59E-10	8.86E-08	2.18E-09	9.93E-09	2.36E-11	1.21E-08	1.34E-09	4.56E-09	5.49E-12	5.91E-09
1589	420656.6	3734414	2.11E-08	9.64E-08	2.11E-10	1.18E-07	2.89E-09	1.32E-08	3.14E-11	1.61E-08	1.77E-09	6.06E-09	7.28E-12	7.84E-09
1590	420665	3734419	2.94E-08	1.34E-07	2.94E-10	1.64E-07	4.03E-09	1.84E-08	4.38E-11	2.25E-08	2.47E-09	8.45E-09	1.02E-11	1.09E-08
1591	420673.3	3734424	4.34E-08	1.98E-07	4.34E-10	2.42E-07	5.95E-09	2.71E-08	6.46E-11	3.31E-08	3.65E-09	1.25E-08	1.50E-11	1.61E-08
1592	420643.3	3734418	1.63E-08	7.44E-08	1.63E-10	9.08E-08	2.23E-09	1.02E-08	2.42E-11	1.24E-08	1.37E-09	4.68E-09	5.62E-12	6.05E-09
1593	420651.6	3734423	2.16E-08	9.86E-08	2.16E-10	1.20E-07	2.96E-09	1.35E-08	3.21E-11	1.65E-08	1.81E-09	6.20E-09	7.45E-12	8.02E-09
1594	420660	3734427	2.99E-08	1.37E-07	2.99E-10	1.67E-07	4.10E-09	1.87E-08	4.45E-11	2.29E-08	2.52E-09	8.60E-09	1.03E-11	1.11E-08
1595	420668.3	3734432	4.38E-08	2.00E-07	4.38E-10	2.44E-07	6.00E-09	2.74E-08	6.52E-11	3.35E-08	3.68E-09	1.26E-08	1.51E-11	1.63E-08
1596	420638.3	3734426	1.60E-08	7.33E-08	1.60E-10	8.95E-08	2.20E-09	1.00E-08	2.39E-11	1.22E-08	1.35E-09	4.61E-09	5.54E-12	5.96E-09
1597	420646.6	3734431	2.10E-08	9.62E-08	2.10E-10	1.17E-07	2.88E-09	1.32E-08	3.13E-11	1.61E-08	1.77E-09	6.05E-09	7.27E-12	7.82E-09
1598	420654.9	3734436	2.87E-08	1.31E-07	2.87E-10	1.60E-07	3.94E-09	1.80E-08	4.28E-11	2.19E-08	2.42E-09	8.26E-09	9.93E-12	1.07E-08
1599	420663.3	3734441	4.12E-08	1.88E-07	4.12E-10	2.30E-07	5.64E-09	2.57E-08	6.13E-11	3.14E-08	3.46E-09	1.18E-08	1.42E-11	1.53E-08
1600	420608.6	3734409	7.66E-09	3.50E-08	7.66E-11	4.28E-08	1.05E-09	4.79E-09	1.14E-11	5.85E-09	6.44E-10	2.20E-09	2.65E-12	2.85E-09
1601	420641.6	3734440	1.99E-08	9.08E-08	1.99E-10	1.11E-07	2.72E-09	1.24E-08	2.96E-11	1.52E-08	1.67E-09	5.71E-09	6.87E-12	7.39E-09
1602	420649.9	3734445	2.66E-08	1.22E-07	2.66E-10	1.49E-07	3.65E-09	1.67E-08	3.97E-11	2.04E-08	2.24E-09	7.66E-09	9.21E-12	9.91E-09

1603	420658.3	3734449	3.72E-08	1.70E-07	3.72E-10	2.08E-07	5.10E-09	2.33E-08	5.54E-11	2.84E-08	3.13E-09	1.07E-08	1.29E-11	1.38E-08
1604	420613.8	3734433	9.83E-09	4.49E-08	9.83E-11	5.49E-08	1.35E-09	6.15E-09	1.46E-11	7.51E-09	8.27E-10	2.82E-09	3.40E-12	3.66E-09
1605	420599.5	3734413	6.77E-09	3.09E-08	6.76E-11	3.78E-08	9.27E-10	4.23E-09	1.01E-11	5.17E-09	5.69E-10	1.94E-09	2.34E-12	2.52E-09
1606	420644.9	3734453	2.42E-08	1.10E-07	2.42E-10	1.35E-07	3.31E-09	1.51E-08	3.60E-11	1.85E-08	2.03E-09	6.94E-09	8.35E-12	8.98E-09
1607	420653.2	3734458	3.29E-08	1.50E-07	3.29E-10	1.84E-07	4.51E-09	2.06E-08	4.90E-11	2.51E-08	2.77E-09	9.45E-09	1.14E-11	1.22E-08
1608	420609.4	3734442	9.37E-09	4.28E-08	9.36E-11	5.23E-08	1.28E-09	5.86E-09	1.39E-11	7.16E-09	7.88E-10	2.69E-09	3.24E-12	3.48E-09
1609	420598.6	3734431	7.29E-09	3.33E-08	7.29E-11	4.07E-08	9.99E-10	4.56E-09	1.09E-11	5.57E-09	6.13E-10	2.09E-09	2.52E-12	2.71E-09
1610	420591.1	3734418	6.09E-09	2.78E-08	6.09E-11	3.40E-08	8.35E-10	3.81E-09	9.06E-12	4.65E-09	5.12E-10	1.75E-09	2.10E-12	2.26E-09
1611	420639.9	3734462	2.15E-08	9.85E-08	2.15E-10	1.20E-07	2.95E-09	1.35E-08	3.21E-11	1.65E-08	1.81E-09	6.19E-09	7.44E-12	8.01E-09
1612	420648.2	3734467	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	4.29E-11	2.20E-08	2.43E-09	8.28E-09	9.96E-12	1.07E-08
1613	420590.9	3734437	6.47E-09	2.96E-08	6.47E-11	3.61E-08	8.87E-10	4.05E-09	9.64E-12	4.94E-09	5.45E-10	1.86E-09	2.24E-12	2.41E-09
1614	420582.1	3734422	5.35E-09	2.45E-08	5.35E-11	2.99E-08	7.34E-10	3.35E-09	7.97E-12	4.09E-09	4.50E-10	1.54E-09	1.85E-12	1.99E-09
1615	420579.7	3734414	5.00E-09	2.29E-08	5.00E-11	2.79E-08	6.86E-10	3.13E-09	7.45E-12	3.82E-09	4.21E-10	1.44E-09	1.73E-12	1.86E-09
1616	420643.2	3734475	2.49E-08	1.14E-07	2.49E-10	1.39E-07	3.42E-09	1.56E-08	3.71E-11	1.90E-08	2.10E-09	7.16E-09	8.61E-12	9.26E-09
1617	420573.7	3734428	4.77E-09	2.18E-08	4.77E-11	2.66E-08	6.54E-10	2.98E-09	7.10E-12	3.64E-09	4.01E-10	1.37E-09	1.65E-12	1.77E-09
1618	420569.3	3734412	4.28E-09	1.96E-08	4.28E-11	2.39E-08	5.87E-10	2.68E-09	6.38E-12	3.27E-09	3.60E-10	1.23E-09	1.48E-12	1.59E-09
1619	420613.2	3734470	1.08E-08	4.93E-08	1.08E-10	6.02E-08	1.48E-09	6.75E-09	1.61E-11	8.24E-09	9.08E-10	3.10E-09	3.73E-12	4.01E-09
1620	420638.2	3734484	2.12E-08	9.71E-08	2.12E-10	1.19E-07	2.91E-09	1.33E-08	3.16E-11	1.62E-08	1.79E-09	6.10E-09	7.34E-12	7.90E-09
1621	420593.3	3734467	7.04E-09	3.22E-08	7.04E-11	3.93E-08	9.65E-10	4.40E-09	1.05E-11	5.38E-09	5.92E-10	2.02E-09	2.43E-12	2.62E-09
1622	420564.8	3734432	4.20E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	6.25E-12	3.20E-09	3.53E-10	1.21E-09	1.45E-12	1.56E-09
1623	420562.3	3734423	3.99E-09	1.82E-08	3.99E-11	2.23E-08	5.47E-10	2.49E-09	5.94E-12	3.05E-09	3.36E-10	1.15E-09	1.38E-12	1.48E-09
1624	420559.9	3734414	3.78E-09	1.73E-08	3.78E-11	2.11E-08	5.18E-10	2.36E-09	5.63E-12	2.89E-09	3.18E-10	1.09E-09	1.31E-12	1.41E-09
1625	420557.4	3734405	3.57E-09	1.63E-08	3.57E-11	1.99E-08	4.89E-10	2.23E-09	5.31E-12	2.73E-09	3.00E-10	1.03E-09	1.23E-12	1.33E-09
1626	420599.8	3734473	8.03E-09	3.67E-08	8.02E-11	4.48E-08	1.10E-09	5.02E-09	1.19E-11	6.13E-09	6.75E-10	2.31E-09	2.77E-12	2.98E-09
1627	420608.1	3734478	9.60E-09	4.39E-08	9.59E-11	5.36E-08	1.32E-09	6.00E-09	1.43E-11	7.33E-09	8.07E-10	2.76E-09	3.32E-12	3.57E-09
1628	420616.5	3734483	1.16E-08	5.32E-08	1.16E-10	6.49E-08	1.59E-09	7.27E-09	1.73E-11	8.88E-09	9.78E-10	3.34E-09	4.02E-12	4.32E-09
1629	420588.8	3734476	6.41E-09	2.93E-08	6.41E-11	3.58E-08	8.79E-10	4.01E-09	9.55E-12	4.90E-09	5.40E-10	1.84E-09	2.22E-12	2.38E-09
1630	420576.7	3734464	5.18E-09	2.37E-08	5.18E-11	2.89E-08	7.10E-10	3.24E-09	7.71E-12	3.96E-09	4.36E-10	1.49E-09	1.79E-12	1.93E-09
1631	420556.3	3734438	3.73E-09	1.70E-08	3.73E-11	2.08E-08	5.11E-10	2.33E-09	5.55E-12	2.85E-09	3.14E-10	1.07E-09	1.29E-12	1.39E-09
1632	420551.8	3734421	3.43E-09	1.57E-08	3.43E-11	1.92E-08	4.71E-10	2.15E-09	5.11E-12	2.62E-09	2.89E-10	9.86E-10	1.19E-12	1.28E-09
1633	420603.1	3734487	8.47E-09	3.87E-08	8.47E-11	4.73E-08	1.16E-09	5.30E-09	1.26E-11	6.47E-09	7.13E-10	2.43E-09	2.93E-12	3.15E-09
1634	420611.5	3734492	1.01E-08	4.63E-08	1.01E-10	5.65E-08	1.39E-09	6.33E-09	1.51E-11	7.73E-09	8.52E-10	2.91E-09	3.50E-12	3.76E-09
1635	420578.5	3734493	5.15E-09	2.35E-08	5.15E-11	2.87E-08	7.06E-10	3.22E-09	7.66E-12	3.93E-09	4.33E-10	1.48E-09	1.78E-12	1.91E-09
1636	420566.1	3734481	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.85E-10	2.67E-09	6.35E-12	3.26E-09	3.59E-10	1.23E-09	1.47E-12	1.59E-09
1637	420553.7	3734468	3.57E-09	1.63E-08	3.57E-11	1.99E-08	4.89E-10	2.23E-09	5.31E-12	2.73E-09	3.00E-10	1.03E-09	1.23E-12	1.33E-09
1638	420534.3	3734431	2.75E-09	1.26E-08	2.75E-11	1.53E-08	3.77E-10	1.72E-09	4.09E-12	2.10E-09	2.31E-10	7.90E-10	9.50E-13	1.02E-09
1639	420529.7	3734414	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.96E-09	2.15E-10	7.36E-10	8.85E-13	9.52E-10
1640	420593.1	3734504	6.55E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	9.75E-12	5.00E-09	5.51E-10	1.88E-09	2.26E-12	2.43E-09
1641	420601.4	3734509	7.62E-09	3.48E-08	7.61E-11	4.25E-08	1.04E-09	4.76E-09	1.13E-11	5.82E-09	6.41E-10	2.19E-09	2.63E-12	2.83E-09
1642	420609.8	3734514	8.92E-09	4.08E-08	8.92E-11	4.98E-08	1.22E-09	5.58E-09	1.33E-11	6.82E-09	7.51E-10	2.56E-09	3.08E-12	3.32E-09
1643	420568.4	3734510	4.14E-09	1.89E-08	4.13E-11	2.31E-08	5.67E-10	2.59E-09	6.16E-12	3.16E-09	3.48E-10	1.19E-09	1.43E-12	1.54E-09
1644	420555.7	3734498	3.51E-09	1.60E-08	3.51E-11	1.96E-08	4.81E-10	2.19E-09	5.22E-12	2.68E-09	2.95E-10	1.01E-09	1.21E-12	1.30E-09
1645	420543.1	3734485	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.09E-10	1.87E-09	4.45E-12	2.28E-09	2.51E-10	8.58E-10	1.03E-12	1.11E-09
1646	420530.4	3734472	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.95E-09	2.15E-10	7.35E-10	8.84E-13	9.51E-10
1647	420516.9	3734440	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	3.29E-12	1.69E-09	1.86E-10	6.35E-10	7.64E-13	8.22E-10
1648	420512.1	3734423	2.09E-09	9.57E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	3.12E-12	1.60E-09	1.76E-10	6.02E-10	7.23E-13	7.78E-10
1649	420583.1	3734521	5.09E-09	2.33E-08	5.08E-11	2.84E-08	6.97E-10	3.18E-09	7.57E-12	3.88E-09	4.28E-10	1.46E-09	1.76E-12	1.89E-09
1650	420591.4	3734526	5.78E-09	2.64E-08	5.78E-11	3.23E-08	7.92E-10	3.61E-09	8.60E-12	4.41E-09	4.86E-10	1.66E-09	2.00E-12	2.15E-09
1651	420599.7	3734531	6.59E-09	3.01E-08	6.59E-11	3.68E-08	9.03E-10	4.12E-09	9.81E-12	5.03E-09	5.54E-10	1.89E-09	2.28E-12	2.45E-09
1652	420608.1	3734536	7.54E-09	3.45E-08	7.53E-11	4.21E-08	1.03E-09	4.71E-09	1.12E-11	5.76E-09	6.34E-10	2.17E-09	2.60E-12	2.80E-09
1653	420558.2	3734528	3.35E-09	1.53E-08	3.35E-11	1.87E-08	4.60E-10	2.10E-09	4.99E-12	2.56E-09	2.82E-10	9.64E-10	1.16E-12	1.25E-09
1654	420551.8	3734521	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	4.64E-12	2.38E-09	2.62E-10	8.96E-10	1.08E-12	1.16E-09
1655	420539	3734508	2.70E-09	1.23E-08	2.70E-11	1.51E-08	3.70E-10	1.69E-09	4.02E-12	2.06E-09	2.27E-10	7.75E-10	9.33E-13	1.00E-09
1656	420532.5	3734502	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	3.74E-12	1.92E-09	2.11E-10	7.22E-10	8.68E-13	9.34E-10
1657	420519.7	3734489	2.18E-09	9.97E-09	2.18E-11	1.22E-08	2.99E-10	1.36E-09	3.25E-12	1.67E-09	1.83E-10	6.27E-10	7.53E-13	8.11E-10
1658	420504.4	3734467	1.87E-09	8.54E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.37E-10	6.46E-13	6.95E-10
1659	420497.1	3734441	1.76E-09	8.04E-09	1.76E-11	9.82E-09	2.41E-10	1.10E-09	2.62E-12	1.34E-09	1.48E-10	5.05E-10	6.08E-13	6.54E-10
1660	420494.7	3734432	1.72E-09	7.87E-09	1.72E-11	9.60E-09	2.36E-10	1.08E-09	2.56E-12	1.31E-09	1.45E-10	4.94E-10	5.95E-13	6.40E-10
1661	420492.3	3734424	1.68E-09	7.68E-09	1.68E-11	9.38E-09	2.30E-10	1.05E-09	2.50E-12	1.28E-09	1.41E-10	4.83E-10	5.81E-13	6.25E-10
1662	420489.8	3734415	1.64E-09	7.50E-09	1.64E-11	9.16E-09	2.25E-10	1.03E-09	2.44E-12	1.25E-09	1.38E-10	4.71E-10	5.67E-13	6.10E-10
1663	420487.4	3734406	1.60E-09	7.31E-09	1.60E-11	8.92E-09	2.19E-10	9.99E-10	2.38E-12	1.22E-09	1.34E-10	4.59E-10	5.52E-13	5.94E-10
1664	420564.7	3734534	3.60E-09	1.65E-08	3.60E-11	2.01E-08	4.94E-10	2.25E-09	5.36E-12	2.75E-09	3.03E-10	1.03E-09	1.24E-12	1.34E-09
1665	420535.1	3734532	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	3.60E-12	1.85E-09	2.04E-10	6.95E-10	8.36E-13	9.00E-10
1666	420528.6	3734525	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	3.38E-12	1.73E-09	1.91E-10	6.52E-10	7.84E-13	8.44E-10
1667	420522.1	3734519	2.13E-09	9.73E-09	2.13E-11	1.19E-08	2.92E-10	1.33E-09	3.17E-12	1.62E-09	1.79E-10	6.11E-10	7.35E-13	7.91E-10
1668	420515.6	3734512	1.99E-09	9.12E-09	1.99E-11	1.11E-08	2.73E-10	1.25E-09	2.97E-12	1.52E-09	1.68E-10	5.73E-10	6.89E-13	7.42E-10
1669	420509.1	3734506	1.87E-09	8.55E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.38E-10	6.46E-13	6.96E-10
1670	420502.6	3734499	1.76E-09	8.03E-09	1.75E-11	9.80E-09	2.41E-10	1.10E-09	2.61E-12	1.34E-09	1.48E-10	5.04E-10	6.07E-13	6.53E-10
1671	420496.1	3734493	1.65E-09	7.54E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	2.45E-12	1.26E-09	1.39E-10	4.74E-10	5.70E-13	6.13E-10
1672	420487.1	3734477	1.53E-09	6.98E-09	1.53E-11	8.52E-09	2.09E-10	9.54E-10	2.27E-12	1.17E-09	1.28E-10	4.39E-10	5.28E-13	5.68E-10
1673	420484.6	3734469	1.50E-09	6.87E-09	1.50E-11	8.39E-09	2.06E-10	9.39E-10	2.24E-12	1.15E-09	1.26E-10	4.32E-10	5.19E-13	5.59E-10
1674	420482.2	3734460	1.48E-09	6.75E-09	1.48E-11	8.25E-09	2.03E-10	9.24E-10	2.20E-12	1.13E-09	1.24E-10	4.24E-10	5.10E-13	5.49E-10
1675	420477.3	3734442	1.43E-09	6.52E-09	1.43E-11	7.96E-09	1.95E-10	8.92E-10	2.12E-12	1.09E-09	1.20E-10	4.10E-10	4.93E-13	5.30E-10

1676	420474.8	3734433	1.40E-09	6.40E-09	1.40E-11	7.81E-09	1.92E-10	8.75E-10	2.08E-12	1.07E-09	1.18E-10	4.02E-10	4.83E-13	5.20E-10
1677	420472.3	3734424	1.37E-09	6.27E-09	1.37E-11	7.66E-09	1.88E-10	8.57E-10	2.04E-12	1.05E-09	1.15E-10	3.94E-10	4.74E-13	5.10E-10
1678	420469.9	3734415	1.34E-09	6.14E-09	1.34E-11	7.50E-09	1.84E-10	8.40E-10	2.00E-12	1.03E-09	1.13E-10	3.86E-10	4.64E-13	5.00E-10
1679	420467.4	3734407	1.31E-09	6.01E-09	1.31E-11	7.34E-09	1.80E-10	8.22E-10	1.96E-12	1.00E-09	1.11E-10	3.78E-10	4.54E-13	4.89E-10
1680	420579.7	3734566	3.85E-09	1.76E-08	3.85E-11	2.15E-08	5.28E-10	2.41E-09	5.73E-12	2.94E-09	3.24E-10	1.11E-09	1.33E-12	1.43E-09
1681	420588	3734571	4.22E-09	1.93E-08	4.21E-11	2.35E-08	5.78E-10	2.64E-09	6.28E-12	3.22E-09	3.55E-10	1.21E-09	1.46E-12	1.57E-09
1682	420538	3734562	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	3.38E-12	1.74E-09	1.91E-10	6.53E-10	7.85E-13	8.45E-10
1683	420511.7	3734536	1.81E-09	8.30E-09	1.81E-11	1.01E-08	2.49E-10	1.13E-09	2.70E-12	1.39E-09	1.53E-10	5.21E-10	6.27E-13	6.75E-10
1684	420505.1	3734529	1.71E-09	7.83E-09	1.71E-11	9.56E-09	2.35E-10	1.07E-09	2.55E-12	1.31E-09	1.44E-10	4.92E-10	5.92E-13	6.37E-10
1685	420498.6	3734523	1.62E-09	7.38E-09	1.61E-11	9.02E-09	2.21E-10	1.01E-09	2.40E-12	1.23E-09	1.36E-10	4.64E-10	5.58E-13	6.01E-10
1686	420492	3734516	1.52E-09	6.97E-09	1.52E-11	8.50E-09	2.09E-10	9.53E-10	2.27E-12	1.16E-09	1.28E-10	4.38E-10	5.27E-13	5.67E-10
1687	420485.4	3734510	1.44E-09	6.57E-09	1.44E-11	8.03E-09	1.97E-10	8.99E-10	2.14E-12	1.10E-09	1.21E-10	4.13E-10	4.97E-13	5.35E-10
1688	420478.8	3734503	1.36E-09	6.21E-09	1.36E-11	7.58E-09	1.86E-10	8.49E-10	2.02E-12	1.04E-09	1.14E-10	3.90E-10	4.69E-13	5.05E-10
1689	420469.8	3734487	1.27E-09	5.79E-09	1.27E-11	7.07E-09	1.74E-10	7.91E-10	1.88E-12	9.67E-10	1.06E-10	3.64E-10	4.37E-13	4.71E-10
1690	420467.3	3734479	1.25E-09	5.71E-09	1.25E-11	6.97E-09	1.71E-10	7.80E-10	1.86E-12	9.53E-10	1.05E-10	3.59E-10	4.31E-13	4.64E-10
1691	420464.8	3734470	1.23E-09	5.63E-09	1.23E-11	6.87E-09	1.69E-10	7.69E-10	1.83E-12	9.40E-10	1.04E-10	3.54E-10	4.25E-13	4.58E-10
1692	420462.3	3734461	1.21E-09	5.54E-09	1.21E-11	6.77E-09	1.66E-10	7.58E-10	1.80E-12	9.26E-10	1.02E-10	3.48E-10	4.19E-13	4.51E-10
1693	420457.4	3734443	1.17E-09	5.37E-09	1.17E-11	6.56E-09	1.61E-10	7.34E-10	1.75E-12	8.97E-10	9.88E-11	3.38E-10	4.06E-13	4.37E-10
1694	420454.9	3734434	1.16E-09	5.28E-09	1.15E-11	6.45E-09	1.58E-10	7.22E-10	1.72E-12	8.82E-10	9.72E-11	3.32E-10	3.99E-13	4.29E-10
1695	420452.4	3734425	1.14E-09	5.19E-09	1.13E-11	6.34E-09	1.56E-10	7.10E-10	1.69E-12	8.67E-10	9.55E-11	3.26E-10	3.92E-13	4.22E-10
1696	420449.9	3734416	1.12E-09	5.10E-09	1.12E-11	6.23E-09	1.53E-10	6.98E-10	1.66E-12	8.52E-10	9.39E-11	3.21E-10	3.86E-13	4.15E-10
1697	420447.5	3734407	1.10E-09	5.01E-09	1.09E-11	6.11E-09	1.50E-10	6.85E-10	1.63E-12	8.37E-10	9.22E-11	3.15E-10	3.79E-13	4.07E-10
1698	420544.6	3734569	2.39E-09	1.09E-08	2.39E-11	1.34E-08	3.28E-10	1.50E-09	3.56E-12	1.83E-09	2.01E-10	6.88E-10	8.27E-13	8.90E-10
1699	420569.6	3734583	3.03E-09	1.39E-08	3.03E-11	1.69E-08	4.16E-10	1.90E-09	4.52E-12	2.32E-09	2.55E-10	8.72E-10	1.05E-12	1.13E-09
1700	420578	3734588	3.28E-09	1.50E-08	3.27E-11	1.83E-08	4.49E-10	2.05E-09	4.88E-12	2.50E-09	2.76E-10	9.41E-10	1.13E-12	1.22E-09
1701	420527.9	3734579	1.89E-09	8.66E-09	1.89E-11	1.06E-08	2.60E-10	1.18E-09	2.82E-12	1.45E-09	1.59E-10	5.44E-10	6.55E-13	7.05E-10
1702	420521.3	3734573	1.81E-09	8.26E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	2.69E-12	1.38E-09	1.52E-10	5.19E-10	6.25E-13	6.72E-10
1703	420514.7	3734566	1.72E-09	7.87E-09	1.72E-11	9.61E-09	2.36E-10	1.08E-09	2.56E-12	1.32E-09	1.45E-10	4.95E-10	5.95E-13	6.40E-10
1704	420481.5	3734533	1.33E-09	6.08E-09	1.33E-11	7.42E-09	1.82E-10	8.31E-10	1.98E-12	1.02E-09	1.12E-10	3.82E-10	4.59E-13	4.94E-10
1705	420474.9	3734526	1.26E-09	5.76E-09	1.26E-11	7.04E-09	1.73E-10	7.88E-10	1.88E-12	9.63E-10	1.06E-10	3.62E-10	4.36E-13	4.69E-10
1706	420468.3	3734520	1.20E-09	5.47E-09	1.20E-11	6.67E-09	1.64E-10	7.48E-10	1.78E-12	9.13E-10	1.01E-10	3.44E-10	4.13E-13	4.45E-10
1707	420461.6	3734513	1.13E-09	5.19E-09	1.13E-11	6.33E-09	1.56E-10	7.09E-10	1.69E-12	8.66E-10	9.54E-11	3.26E-10	3.92E-13	4.22E-10
1708	420452.5	3734497	1.06E-09	4.86E-09	1.06E-11	5.94E-09	1.46E-10	6.65E-10	1.58E-12	8.12E-10	8.95E-11	3.06E-10	3.68E-13	3.96E-10
1709	420450	3734488	1.05E-09	4.80E-09	1.05E-11	5.86E-09	1.44E-10	6.57E-10	1.56E-12	8.02E-10	8.84E-11	3.02E-10	3.63E-13	3.91E-10
1710	420447.5	3734479	1.04E-09	4.74E-09	1.04E-11	5.79E-09	1.42E-10	6.48E-10	1.54E-12	7.92E-10	8.73E-11	2.98E-10	3.58E-13	3.86E-10
1711	420445	3734470	1.02E-09	4.68E-09	1.02E-11	5.71E-09	1.40E-10	6.40E-10	1.52E-12	7.82E-10	8.61E-11	2.94E-10	3.54E-13	3.81E-10
1712	420534.6	3734586	1.98E-09	9.06E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	2.95E-12	1.51E-09	1.67E-10	5.69E-10	6.85E-13	7.37E-10
1713	420542.9	3734591	2.12E-09	9.71E-09	2.12E-11	1.19E-08	2.91E-10	1.33E-09	3.16E-12	1.62E-09	1.79E-10	6.11E-10	7.34E-13	7.90E-10
1714	420551.2	3734595	2.28E-09	1.04E-08	2.27E-11	1.27E-08	3.12E-10	1.42E-09	3.39E-12	1.74E-09	1.91E-10	6.54E-10	7.86E-13	8.46E-10
1715	420517.9	3734596	1.59E-09	7.28E-09	1.59E-11	8.89E-09	2.18E-10	9.96E-10	2.37E-12	1.22E-09	1.34E-10	4.58E-10	5.50E-13	5.92E-10
1716	420511.2	3734590	1.53E-09	6.99E-09	1.53E-11	8.54E-09	2.10E-10	9.56E-10	2.28E-12	1.17E-09	1.29E-10	4.39E-10	5.28E-13	5.69E-10
1717	420504.5	3734583	1.47E-09	6.71E-09	1.47E-11	8.19E-09	2.01E-10	9.17E-10	2.18E-12	1.12E-09	1.23E-10	4.21E-10	5.07E-13	5.45E-10
1718	420497.8	3734576	1.40E-09	6.42E-09	1.40E-11	7.84E-09	1.92E-10	8.78E-10	2.09E-12	1.07E-09	1.18E-10	4.03E-10	4.85E-13	5.22E-10
1719	420491.1	3734570	1.34E-09	6.14E-09	1.34E-11	7.49E-09	1.84E-10	8.39E-10	2.00E-12	1.03E-09	1.13E-10	3.86E-10	4.64E-13	4.99E-10
1720	420484.5	3734563	1.28E-09	5.86E-09	1.28E-11	7.16E-09	1.76E-10	8.01E-10	1.91E-12	9.79E-10	1.08E-10	3.68E-10	4.43E-13	4.77E-10
1721	420457.8	3734537	1.06E-09	4.84E-09	1.06E-11	5.90E-09	1.45E-10	6.61E-10	1.57E-12	8.08E-10	8.90E-11	3.04E-10	3.66E-13	3.93E-10
1722	420451.1	3734530	1.01E-09	4.61E-09	1.01E-11	5.62E-09	1.38E-10	6.30E-10	1.50E-12	7.69E-10	8.48E-11	2.89E-10	3.48E-13	3.75E-10
1723	420444.4	3734523	9.59E-10	4.39E-09	9.59E-12	5.36E-09	1.32E-10	6.00E-10	1.43E-12	7.33E-10	8.07E-11	2.76E-10	3.32E-13	3.57E-10
1724	420425.1	3734471	8.63E-10	3.95E-09	8.62E-12	4.82E-09	1.18E-10	5.39E-10	1.28E-12	6.59E-10	7.26E-11	2.48E-10	2.98E-13	3.21E-10
1725	420422.6	3734462	8.52E-10	3.90E-09	8.52E-12	4.76E-09	1.17E-10	5.33E-10	1.27E-12	6.51E-10	7.17E-11	2.45E-10	2.94E-13	3.17E-10
1726	420415.1	3734435	8.20E-10	3.75E-09	8.19E-12	4.57E-09	1.12E-10	5.12E-10	1.22E-12	6.26E-10	6.89E-11	2.35E-10	2.83E-13	3.05E-10
1727	420412.5	3734426	8.09E-10	3.70E-09	8.08E-12	4.51E-09	1.11E-10	5.06E-10	1.20E-12	6.18E-10	6.80E-11	2.32E-10	2.79E-13	3.01E-10
1728	420410	3734417	7.98E-10	3.65E-09	7.97E-12	4.45E-09	1.09E-10	4.99E-10	1.19E-12	6.09E-10	6.71E-11	2.29E-10	2.76E-13	2.97E-10
1729	420407.5	3734408	7.87E-10	3.60E-09	7.86E-12	4.39E-09	1.08E-10	4.92E-10	1.17E-12	6.01E-10	6.62E-11	2.26E-10	2.72E-13	2.93E-10
1730	420524.5	3734603	1.66E-09	7.57E-09	1.66E-11	9.24E-09	2.27E-10	1.04E-09	2.47E-12	1.26E-09	1.39E-10	4.76E-10	5.72E-13	6.16E-10
1731	420532.9	3734608	1.76E-09	8.05E-09	1.76E-11	9.83E-09	2.41E-10	1.10E-09	2.62E-12	1.35E-09	1.48E-10	5.06E-10	6.09E-13	6.55E-10
1732	420541.2	3734613	1.87E-09	8.56E-09	1.87E-11	1.04E-08	2.57E-10	1.17E-09	2.79E-12	1.43E-09	1.57E-10	5.38E-10	6.47E-13	6.96E-10
1733	420549.6	3734618	1.99E-09	9.08E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	2.96E-12	1.52E-09	1.67E-10	5.71E-10	6.86E-13	7.38E-10
1734	420507.8	3734614	1.35E-09	6.18E-09	1.35E-11	7.55E-09	1.85E-10	8.45E-10	2.01E-12	1.03E-09	1.14E-10	3.88E-10	4.67E-13	5.03E-10
1735	420501.1	3734607	1.31E-09	5.97E-09	1.30E-11	7.29E-09	1.79E-10	8.16E-10	1.94E-12	9.97E-10	1.10E-10	3.75E-10	4.51E-13	4.85E-10
1736	420494.3	3734600	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.73E-10	7.87E-10	1.87E-12	9.61E-10	1.06E-10	3.62E-10	4.35E-13	4.68E-10
1737	420487.6	3734594	1.21E-09	5.54E-09	1.21E-11	6.76E-09	1.66E-10	7.57E-10	1.80E-12	9.25E-10	1.02E-10	3.48E-10	4.19E-13	4.50E-10
1738	420480.9	3734587	1.16E-09	5.32E-09	1.16E-11	6.50E-09	1.60E-10	7.28E-10	1.73E-12	8.89E-10	9.79E-11	3.34E-10	4.02E-13	4.33E-10
1739	420474.2	3734580	1.12E-09	5.11E-09	1.12E-11	6.24E-09	1.53E-10	6.98E-10	1.66E-12	8.53E-10	9.40E-11	3.21E-10	3.86E-13	4.15E-10
1740	420467.5	3734574	1.07E-09	4.90E-09	1.07E-11	5.98E-09	1.47E-10	6.70E-10	1.59E-12	8.18E-10	9.01E-11	3.08E-10	3.70E-13	3.98E-10
1741	420460.8	3734567	1.03E-09	4.69E-09	1.03E-11	5.73E-09	1.41E-10	6.41E-10	1.53E-12	7.83E-10	8.63E-11	2.95E-10	3.54E-13	3.81E-10
1742	420454	3734560	9.81E-10	4.49E-09	9.81E-12	5.48E-09	1.35E-10	6.14E-10	1.46E-12	7.50E-10	8.26E-11	2.82E-10	3.39E-13	3.65E-10
1743	420427.2	3734533	8.20E-10	3.75E-09	8.19E-12	4.58E-09	1.12E-10	5.13E-10	1.22E-12	6.26E-10	6.90E-11	2.36E-10	2.83E-13	3.05E-10
1744	420417.9	3734518	7.76E-10	3.55E-09	7.76E-12	4.33E-09	1.06E-10	4.85E-10	1.16E-12	5.93E-10	6.53E-11	2.23E-10	2.68E-13	2.89E-10
1745	420415.4	3734508	7.69E-10	3.52E-09	7.69E-12	4.29E-09	1.05E-10	4.81E-10	1.14E-12	5.87E-10	6.47E-11	2.21E-10	2.66E-13	2.86E-10
1746	420412.9	3734499	7.61E-10	3.48E-09	7.61E-12	4.25E-09	1.04E-10	4.76E-10	1.13E-12	5.81E-10	6.40E-11	2.19E-10	2.63E-13	2.83E-10
1747	420410.3	3734490	7.53E-10	3.44E-09	7.52E-12	4.20E-09	1.03E-10	4.71E-10	1.12E-12	5.75E-10	6.33E-11	2.16E-10	2.60E-13	2.80E-10
1748	420407.8	3734481	7.44E-10	3.40E-09	7.44E-12	4.15E-09	1.02E-10	4.65E-10	1.11E-12	5.68E-10	6.26E-11	2.14E-10	2.57E-13	2.77E-10

1749	420405.3	3734472	7.36E-10	3.36E-09	7.35E-12	4.11E-09	1.01E-10	4.60E-10	1.10E-12	5.62E-10	6.19E-11	2.11E-10	2.54E-13	2.74E-10
1750	420402.7	3734463	7.27E-10	3.33E-09	7.27E-12	4.06E-09	9.97E-11	4.55E-10	1.08E-12	5.55E-10	6.12E-11	2.09E-10	2.51E-13	2.70E-10
1751	420395.1	3734435	7.02E-10	3.21E-09	7.02E-12	3.92E-09	9.62E-11	4.39E-10	1.05E-12	5.36E-10	5.91E-11	2.02E-10	2.43E-13	2.61E-10
1752	420392.6	3734426	6.94E-10	3.17E-09	6.93E-12	3.87E-09	9.51E-11	4.34E-10	1.03E-12	5.30E-10	5.84E-11	1.99E-10	2.40E-13	2.58E-10
1753	420390.1	3734417	6.85E-10	3.13E-09	6.85E-12	3.83E-09	9.39E-11	4.28E-10	1.02E-12	5.23E-10	5.77E-11	1.97E-10	2.37E-13	2.55E-10
1754	420387.5	3734408	6.77E-10	3.09E-09	6.76E-12	3.78E-09	9.28E-11	4.23E-10	1.01E-12	5.17E-10	5.69E-11	1.94E-10	2.34E-13	2.52E-10
1755	420514.5	3734620	1.40E-09	6.40E-09	1.40E-11	7.81E-09	1.92E-10	8.75E-10	2.08E-12	1.07E-09	1.18E-10	4.02E-10	4.83E-13	5.20E-10
1756	420522.8	3734625	1.48E-09	6.76E-09	1.48E-11	8.25E-09	2.03E-10	9.24E-10	2.20E-12	1.13E-09	1.24E-10	4.25E-10	5.11E-13	5.50E-10
1757	420531.2	3734630	1.56E-09	7.13E-09	1.56E-11	8.71E-09	2.14E-10	9.76E-10	2.32E-12	1.19E-09	1.31E-10	4.48E-10	5.39E-13	5.80E-10
1758	420539.5	3734635	1.64E-09	7.52E-09	1.64E-11	9.18E-09	2.25E-10	1.03E-09	2.45E-12	1.26E-09	1.38E-10	4.73E-10	5.68E-13	6.12E-10
1759	420497.7	3734631	1.16E-09	5.30E-09	1.16E-11	6.47E-09	1.59E-10	7.25E-10	1.73E-12	8.85E-10	9.75E-11	3.33E-10	4.01E-13	4.31E-10
1760	420491	3734624	1.12E-09	5.14E-09	1.12E-11	6.27E-09	1.54E-10	7.02E-10	1.67E-12	8.58E-10	9.45E-11	3.23E-10	3.88E-13	4.18E-10
1761	420484.2	3734618	1.09E-09	4.97E-09	1.09E-11	6.07E-09	1.49E-10	6.80E-10	1.62E-12	8.31E-10	9.15E-11	3.13E-10	3.76E-13	4.04E-10
1762	420477.5	3734611	1.05E-09	4.81E-09	1.05E-11	5.87E-09	1.44E-10	6.57E-10	1.56E-12	8.03E-10	8.84E-11	3.02E-10	3.63E-13	3.91E-10
1763	420470.7	3734604	1.01E-09	4.64E-09	1.01E-11	5.66E-09	1.39E-10	6.34E-10	1.51E-12	7.75E-10	8.54E-11	2.92E-10	3.51E-13	3.77E-10
1764	420464	3734597	9.78E-10	4.47E-09	9.78E-12	5.46E-09	1.34E-10	6.12E-10	1.46E-12	7.47E-10	8.23E-11	2.81E-10	3.38E-13	3.64E-10
1765	420457.2	3734591	9.42E-10	4.31E-09	9.41E-12	5.26E-09	1.29E-10	5.89E-10	1.40E-12	7.19E-10	7.92E-11	2.71E-10	3.25E-13	3.50E-10
1766	420450.4	3734584	9.06E-10	4.14E-09	9.05E-12	5.06E-09	1.24E-10	5.66E-10	1.35E-12	6.92E-10	7.62E-11	2.60E-10	3.13E-13	3.37E-10
1767	420443.7	3734577	8.70E-10	3.98E-09	8.70E-12	4.86E-09	1.19E-10	5.44E-10	1.30E-12	6.65E-10	7.32E-11	2.50E-10	3.01E-13	3.24E-10
1768	420436.9	3734570	8.36E-10	3.82E-09	8.35E-12	4.66E-09	1.15E-10	5.22E-10	1.24E-12	6.38E-10	7.03E-11	2.40E-10	2.89E-13	3.11E-10
1769	420400.6	3734528	6.72E-10	3.07E-09	6.72E-12	3.75E-09	9.22E-11	4.20E-10	1.00E-12	5.14E-10	5.66E-11	1.93E-10	2.32E-13	2.50E-10
1770	420398.1	3734518	6.66E-10	3.05E-09	6.66E-12	3.72E-09	9.14E-11	4.17E-10	9.92E-13	5.09E-10	5.61E-11	1.92E-10	2.30E-13	2.48E-10
1771	420395.6	3734509	6.60E-10	3.02E-09	6.60E-12	3.69E-09	9.05E-11	4.13E-10	9.83E-13	5.04E-10	5.56E-11	1.90E-10	2.28E-13	2.46E-10
1772	420393	3734500	6.54E-10	2.99E-09	6.54E-12	3.65E-09	8.97E-11	4.09E-10	9.74E-13	5.00E-10	5.50E-11	1.88E-10	2.26E-13	2.43E-10
1773	420390.5	3734491	6.47E-10	2.96E-09	6.47E-12	3.61E-09	8.87E-11	4.05E-10	9.64E-13	4.94E-10	5.45E-11	1.86E-10	2.24E-13	2.41E-10
1774	420387.9	3734482	6.41E-10	2.93E-09	6.40E-12	3.58E-09	8.78E-11	4.01E-10	9.54E-13	4.89E-10	5.39E-11	1.84E-10	2.21E-13	2.38E-10
1775	420385.4	3734472	6.34E-10	2.90E-09	6.34E-12	3.54E-09	8.69E-11	3.96E-10	9.44E-13	4.84E-10	5.33E-11	1.82E-10	2.19E-13	2.36E-10
1776	420382.8	3734463	6.27E-10	2.87E-09	6.27E-12	3.50E-09	8.60E-11	3.92E-10	9.34E-13	4.79E-10	5.28E-11	1.80E-10	2.17E-13	2.33E-10
1777	420375.2	3734436	6.07E-10	2.78E-09	6.07E-12	3.39E-09	8.32E-11	3.80E-10	9.04E-13	4.64E-10	5.11E-11	1.74E-10	2.10E-13	2.26E-10
1778	420372.6	3734427	6.00E-10	2.75E-09	6.00E-12	3.35E-09	8.23E-11	3.75E-10	8.94E-13	4.59E-10	5.05E-11	1.73E-10	2.07E-13	2.23E-10
1779	420370.1	3734417	5.94E-10	2.72E-09	5.94E-12	3.32E-09	8.14E-11	3.71E-10	8.84E-13	4.54E-10	5.00E-11	1.71E-10	2.05E-13	2.21E-10
1780	420367.5	3734408	5.87E-10	2.69E-09	5.87E-12	3.28E-09	8.05E-11	3.67E-10	8.74E-13	4.49E-10	4.94E-11	1.69E-10	2.03E-13	2.18E-10
1781	420537.8	3734657	1.44E-09	6.60E-09	1.44E-11	8.06E-09	1.98E-10	9.03E-10	2.15E-12	1.10E-09	1.22E-10	4.15E-10	4.99E-13	5.37E-10
1782	420474.1	3734635	9.46E-10	4.33E-09	9.46E-12	5.28E-09	1.30E-10	5.91E-10	1.41E-12	7.23E-10	7.96E-11	2.72E-10	3.27E-13	3.52E-10
1783	420467.3	3734628	9.18E-10	4.20E-09	9.17E-12	5.12E-09	1.26E-10	5.74E-10	1.37E-12	7.01E-10	7.72E-11	2.64E-10	3.17E-13	3.41E-10
1784	420460.5	3734621	8.89E-10	4.07E-09	8.89E-12	4.96E-09	1.22E-10	5.56E-10	1.32E-12	6.79E-10	7.48E-11	2.55E-10	3.07E-13	3.31E-10
1785	420453.7	3734614	8.60E-10	3.93E-09	8.60E-12	4.80E-09	1.18E-10	5.38E-10	1.28E-12	6.57E-10	7.24E-11	2.47E-10	2.97E-13	3.20E-10
1786	420447	3734608	8.32E-10	3.80E-09	8.31E-12	4.64E-09	1.14E-10	5.20E-10	1.24E-12	6.35E-10	7.00E-11	2.39E-10	2.87E-13	3.09E-10
1787	420440.2	3734601	8.03E-10	3.67E-09	8.02E-12	4.48E-09	1.10E-10	5.02E-10	1.20E-12	6.13E-10	6.75E-11	2.31E-10	2.77E-13	2.98E-10
1788	420413	3734574	6.91E-10	3.16E-09	6.91E-12	3.86E-09	9.48E-11	4.32E-10	1.03E-12	5.28E-10	5.82E-11	1.99E-10	2.39E-13	2.57E-10
1789	420406.3	3734567	6.65E-10	3.04E-09	6.64E-12	3.71E-09	9.11E-11	4.16E-10	9.90E-13	5.08E-10	5.59E-11	1.91E-10	2.30E-13	2.47E-10
1790	420399.5	3734560	6.39E-10	2.92E-09	6.39E-12	3.57E-09	8.76E-11	4.00E-10	9.52E-13	4.88E-10	5.38E-11	1.84E-10	2.21E-13	2.38E-10
1791	420383.4	3734538	5.87E-10	2.68E-09	5.87E-12	3.28E-09	8.05E-11	3.67E-10	8.74E-13	4.48E-10	4.94E-11	1.69E-10	2.03E-13	2.18E-10
1792	420380.8	3734528	5.82E-10	2.66E-09	5.82E-12	3.25E-09	7.98E-11	3.64E-10	8.67E-13	4.45E-10	4.90E-11	1.67E-10	2.01E-13	2.17E-10
1793	420378.2	3734519	5.77E-10	2.64E-09	5.77E-12	3.22E-09	7.92E-11	3.61E-10	8.60E-13	4.41E-10	4.86E-11	1.66E-10	2.00E-13	2.15E-10
1794	420375.7	3734510	5.72E-10	2.62E-09	5.72E-12	3.20E-09	7.85E-11	3.58E-10	8.52E-13	4.37E-10	4.82E-11	1.65E-10	1.98E-13	2.13E-10
1795	420373.1	3734501	5.67E-10	2.59E-09	5.67E-12	3.17E-09	7.78E-11	3.55E-10	8.44E-13	4.33E-10	4.77E-11	1.63E-10	1.96E-13	2.11E-10
1796	420370.6	3734491	5.62E-10	2.57E-09	5.62E-12	3.14E-09	7.70E-11	3.51E-10	8.36E-13	4.29E-10	4.73E-11	1.61E-10	1.94E-13	2.09E-10
1797	420368	3734482	5.56E-10	2.54E-09	5.56E-12	3.11E-09	7.63E-11	3.48E-10	8.28E-13	4.25E-10	4.68E-11	1.60E-10	1.92E-13	2.07E-10
1798	420365.5	3734473	5.51E-10	2.52E-09	5.51E-12	3.08E-09	7.55E-11	3.44E-10	8.20E-13	4.21E-10	4.64E-11	1.58E-10	1.90E-13	2.05E-10
1799	420362.9	3734464	5.45E-10	2.49E-09	5.45E-12	3.04E-09	7.48E-11	3.41E-10	8.12E-13	4.17E-10	4.59E-11	1.57E-10	1.89E-13	2.03E-10
1800	420355.2	3734436	5.29E-10	2.42E-09	5.29E-12	2.96E-09	7.26E-11	3.31E-10	7.88E-13	4.04E-10	4.45E-11	1.52E-10	1.83E-13	1.97E-10
1801	420352.7	3734427	5.24E-10	2.40E-09	5.24E-12	2.93E-09	7.19E-11	3.28E-10	7.80E-13	4.00E-10	4.41E-11	1.51E-10	1.81E-13	1.95E-10
1802	420350.1	3734418	5.19E-10	2.37E-09	5.19E-12	2.90E-09	7.11E-11	3.24E-10	7.73E-13	3.96E-10	4.37E-11	1.49E-10	1.79E-13	1.93E-10
1803	420347.5	3734408	5.14E-10	2.35E-09	5.13E-12	2.87E-09	7.04E-11	3.21E-10	7.65E-13	3.92E-10	4.32E-11	1.48E-10	1.78E-13	1.91E-10
1804	420502.8	3734660	1.08E-09	4.92E-09	1.08E-11	6.01E-09	1.48E-10	6.73E-10	1.60E-12	8.22E-10	9.06E-11	3.09E-10	3.72E-13	4.00E-10
1805	420511.1	3734665	1.12E-09	5.14E-09	1.12E-11	6.28E-09	1.54E-10	7.03E-10	1.67E-12	8.59E-10	9.46E-11	3.23E-10	3.89E-13	4.18E-10
1806	420519.4	3734670	1.17E-09	5.36E-09	1.17E-11	6.55E-09	1.61E-10	7.33E-10	1.75E-12	8.96E-10	9.87E-11	3.37E-10	4.05E-13	4.36E-10
1807	420527.8	3734674	1.22E-09	5.58E-09	1.22E-11	6.82E-09	1.67E-10	7.63E-10	1.82E-12	9.33E-10	1.03E-10	3.51E-10	4.22E-13	4.54E-10
1808	420467.9	3734683	7.67E-10	3.50E-09	7.66E-12	4.28E-09	1.05E-10	4.79E-10	1.14E-12	5.85E-10	6.45E-11	2.20E-10	2.65E-13	2.85E-10
1809	420461.4	3734677	7.50E-10	3.43E-09	7.50E-12	4.19E-09	1.03E-10	4.69E-10	1.12E-12	5.73E-10	6.31E-11	2.16E-10	2.59E-13	2.79E-10
1810	420454.9	3734670	7.30E-10	3.34E-09	7.30E-12	4.08E-09	1.00E-10	4.57E-10	1.09E-12	5.58E-10	6.14E-11	2.10E-10	2.52E-13	2.72E-10
1811	420448.5	3734664	7.14E-10	3.26E-09	7.13E-12	3.98E-09	9.78E-11	4.46E-10	1.06E-12	5.45E-10	6.00E-11	2.05E-10	2.47E-13	2.65E-10
1812	420416.1	3734632	6.28E-10	2.87E-09	6.27E-12	3.50E-09	8.60E-11	3.92E-10	9.34E-13	4.79E-10	5.28E-11	1.80E-10	2.17E-13	2.33E-10
1813	420409.6	3734625	6.10E-10	2.79E-09	6.09E-12	3.40E-09	8.36E-11	3.81E-10	9.07E-13	4.66E-10	5.13E-11	1.75E-10	2.11E-13	2.27E-10
1814	420396.7	3734612	5.74E-10	2.63E-09	5.74E-12	3.20E-09	7.87E-11	3.59E-10	8.55E-13	4.39E-10	4.83E-11	1.65E-10	1.98E-13	2.13E-10
1815	420390.2	3734606	5.57E-10	2.55E-09	5.56E-12	3.11E-09	7.63E-11	3.48E-10	8.29E-13	4.25E-10	4.68E-11	1.60E-10	1.92E-13	2.07E-10
1816	420383.7	3734599	5.39E-10	2.47E-09	5.39E-12	3.01E-09	7.39E-11	3.37E-10	8.03E-13	4.12E-10	4.54E-11	1.55E-10	1.86E-13	2.01E-10
1817	420377.3	3734593	5.23E-10	2.39E-09	5.22E-12	2.92E-09	7.16E-11	3.27E-10	7.78E-13	3.99E-10	4.40E-11	1.50E-10	1.81E-13	1.94E-10
1818	420370.8	3734586	5.06E-10	2.31E-09	5.06E-12	2.83E-09	6.94E-11	3.16E-10	7.54E-13	3.87E-10	4.26E-11	1.45E-10	1.75E-13	1.88E-10
1819	420357.9	3734573	4.74E-10	2.17E-09	4.74E-12	2.65E-09	6.50E-11	2.97E-10	7.06E-13	3.62E-10	3.99E-11	1.36E-10	1.64E-13	1.76E-10
1820	420341.6	3734532	4.48E-10	2.05E-09	4.48E-12	2.50E-09	6.15E-11	2.80E-10	6.67E-13	3.42E-10	3.77E-11	1.29E-10	1.55E-13	1.67E-10
1821	420339.2	3734523	4.45E-10	2.04E-09	4.45E-12	2.48E-09	6.10E-11	2.78E-10	6.63E-13	3.40E-10	3.75E-11	1.28E-10	1.54E-13	1.66E-10

1822	420336.7	3734514	4.42E-10	2.02E-09	4.42E-12	2.47E-09	6.06E-11	2.76E-10	6.58E-13	3.38E-10	3.72E-11	1.27E-10	1.53E-13	1.64E-10
1823	420334.3	3734505	4.39E-10	2.01E-09	4.38E-12	2.45E-09	6.01E-11	2.74E-10	6.53E-13	3.35E-10	3.69E-11	1.26E-10	1.52E-13	1.63E-10
1824	420331.9	3734497	4.35E-10	1.99E-09	4.35E-12	2.43E-09	5.96E-11	2.72E-10	6.48E-13	3.32E-10	3.66E-11	1.25E-10	1.50E-13	1.62E-10
1825	420329.4	3734488	4.32E-10	1.97E-09	4.31E-12	2.41E-09	5.92E-11	2.70E-10	6.43E-13	3.30E-10	3.63E-11	1.24E-10	1.49E-13	1.61E-10
1826	420327	3734479	4.28E-10	1.96E-09	4.28E-12	2.39E-09	5.87E-11	2.68E-10	6.37E-13	3.27E-10	3.60E-11	1.23E-10	1.48E-13	1.59E-10
1827	420324.5	3734470	4.25E-10	1.94E-09	4.25E-12	2.37E-09	5.82E-11	2.66E-10	6.32E-13	3.24E-10	3.57E-11	1.22E-10	1.47E-13	1.58E-10
1828	420322.1	3734461	4.21E-10	1.93E-09	4.21E-12	2.35E-09	5.78E-11	2.63E-10	6.27E-13	3.22E-10	3.55E-11	1.21E-10	1.46E-13	1.57E-10
1829	420317.2	3734444	4.15E-10	1.90E-09	4.14E-12	2.31E-09	5.68E-11	2.59E-10	6.17E-13	3.17E-10	3.49E-11	1.19E-10	1.43E-13	1.54E-10
1830	420314.8	3734435	4.11E-10	1.88E-09	4.11E-12	2.29E-09	5.64E-11	2.57E-10	6.12E-13	3.14E-10	3.46E-11	1.18E-10	1.42E-13	1.53E-10
1831	420312.3	3734426	4.08E-10	1.86E-09	4.07E-12	2.28E-09	5.59E-11	2.55E-10	6.07E-13	3.11E-10	3.43E-11	1.17E-10	1.41E-13	1.52E-10
1832	420309.9	3734417	4.04E-10	1.85E-09	4.04E-12	2.26E-09	5.54E-11	2.53E-10	6.02E-13	3.09E-10	3.40E-11	1.16E-10	1.40E-13	1.50E-10
1833	420307.4	3734409	4.01E-10	1.83E-09	4.01E-12	2.24E-09	5.50E-11	2.51E-10	5.97E-13	3.06E-10	3.37E-11	1.15E-10	1.39E-13	1.49E-10
1834	420482.7	3734694	8.12E-10	3.71E-09	8.12E-12	4.54E-09	1.11E-10	5.08E-10	1.21E-12	6.21E-10	6.84E-11	2.33E-10	2.81E-13	3.02E-10
1835	420491	3734699	8.42E-10	3.85E-09	8.42E-12	4.70E-09	1.15E-10	5.26E-10	1.25E-12	6.43E-10	7.08E-11	2.42E-10	2.91E-13	3.13E-10
1836	420499.4	3734704	8.71E-10	3.98E-09	8.71E-12	4.86E-09	1.19E-10	5.45E-10	1.30E-12	6.66E-10	7.33E-11	2.50E-10	3.01E-13	3.24E-10
1837	420507.7	3734709	9.00E-10	4.12E-09	9.00E-12	5.03E-09	1.23E-10	5.63E-10	1.34E-12	6.88E-10	7.58E-11	2.59E-10	3.11E-13	3.35E-10
1838	420447.7	3734718	6.01E-10	2.75E-09	6.01E-12	3.36E-09	8.24E-11	3.76E-10	8.95E-13	4.59E-10	5.06E-11	1.73E-10	2.08E-13	2.24E-10
1839	420441.2	3734711	5.91E-10	2.70E-09	5.90E-12	3.30E-09	8.10E-11	3.69E-10	8.79E-13	4.51E-10	4.97E-11	1.70E-10	2.04E-13	2.20E-10
1840	420434.6	3734705	5.80E-10	2.65E-09	5.79E-12	3.24E-09	7.95E-11	3.62E-10	8.63E-13	4.43E-10	4.88E-11	1.67E-10	2.00E-13	2.16E-10
1841	420415	3734685	5.44E-10	2.49E-09	5.44E-12	3.04E-09	7.46E-11	3.40E-10	8.10E-13	4.16E-10	4.58E-11	1.56E-10	1.88E-13	2.02E-10
1842	420408.5	3734679	5.32E-10	2.43E-09	5.32E-12	2.97E-09	7.29E-11	3.33E-10	7.92E-13	4.06E-10	4.48E-11	1.53E-10	1.84E-13	1.98E-10
1843	420401.9	3734672	5.20E-10	2.38E-09	5.19E-12	2.90E-09	7.12E-11	3.25E-10	7.74E-13	3.97E-10	4.37E-11	1.49E-10	1.80E-13	1.93E-10
1844	420395.4	3734665	5.07E-10	2.32E-09	5.07E-12	2.83E-09	6.96E-11	3.17E-10	7.55E-13	3.88E-10	4.27E-11	1.46E-10	1.75E-13	1.89E-10
1845	420388.8	3734659	4.95E-10	2.26E-09	4.95E-12	2.76E-09	6.79E-11	3.10E-10	7.37E-13	3.78E-10	4.17E-11	1.42E-10	1.71E-13	1.84E-10
1846	420382.3	3734652	4.83E-10	2.21E-09	4.82E-12	2.69E-09	6.61E-11	3.02E-10	7.18E-13	3.69E-10	4.06E-11	1.39E-10	1.67E-13	1.79E-10
1847	420375.7	3734646	4.70E-10	2.15E-09	4.70E-12	2.62E-09	6.44E-11	2.94E-10	7.00E-13	3.59E-10	3.95E-11	1.35E-10	1.62E-13	1.75E-10
1848	420369.2	3734639	4.58E-10	2.09E-09	4.57E-12	2.55E-09	6.27E-11	2.86E-10	6.81E-13	3.50E-10	3.85E-11	1.31E-10	1.58E-13	1.70E-10
1849	420362.7	3734633	4.45E-10	2.04E-09	4.45E-12	2.49E-09	6.11E-11	2.78E-10	6.63E-13	3.40E-10	3.75E-11	1.28E-10	1.54E-13	1.66E-10
1850	420356.1	3734626	4.33E-10	1.98E-09	4.33E-12	2.42E-09	5.94E-11	2.71E-10	6.45E-13	3.31E-10	3.65E-11	1.25E-10	1.50E-13	1.61E-10
1851	420349.6	3734620	4.22E-10	1.93E-09	4.21E-12	2.35E-09	5.78E-11	2.64E-10	6.28E-13	3.22E-10	3.55E-11	1.21E-10	1.46E-13	1.57E-10
1852	420343	3734613	4.10E-10	1.87E-09	4.10E-12	2.29E-09	5.62E-11	2.56E-10	6.10E-13	3.13E-10	3.45E-11	1.18E-10	1.42E-13	1.52E-10
1853	420336.5	3734607	3.98E-10	1.82E-09	3.98E-12	2.22E-09	5.46E-11	2.49E-10	5.93E-13	3.04E-10	3.35E-11	1.14E-10	1.38E-13	1.48E-10
1854	420329.9	3734600	3.87E-10	1.77E-09	3.87E-12	2.16E-09	5.31E-11	2.42E-10	5.76E-13	2.96E-10	3.26E-11	1.11E-10	1.34E-13	1.44E-10
1855	420323.4	3734594	3.76E-10	1.72E-09	3.76E-12	2.10E-09	5.15E-11	2.35E-10	5.60E-13	2.87E-10	3.16E-11	1.08E-10	1.30E-13	1.40E-10
1856	420314.4	3734578	3.64E-10	1.66E-09	3.63E-12	2.03E-09	4.99E-11	2.27E-10	5.41E-13	2.78E-10	3.06E-11	1.05E-10	1.26E-13	1.35E-10
1857	420311.9	3734569	3.62E-10	1.66E-09	3.62E-12	2.02E-09	4.96E-11	2.26E-10	5.39E-13	2.77E-10	3.05E-11	1.04E-10	1.25E-13	1.35E-10
1858	420302	3734534	3.54E-10	1.62E-09	3.54E-12	1.98E-09	4.86E-11	2.22E-10	5.27E-13	2.71E-10	2.98E-11	1.02E-10	1.22E-13	1.32E-10
1859	420299.6	3734525	3.52E-10	1.61E-09	3.52E-12	1.97E-09	4.83E-11	2.20E-10	5.24E-13	2.69E-10	2.96E-11	1.01E-10	1.22E-13	1.31E-10
1860	420274.9	3734436	3.28E-10	1.50E-09	3.27E-12	1.83E-09	4.49E-11	2.05E-10	4.88E-13	2.50E-10	2.76E-11	9.41E-11	1.13E-13	1.22E-10
1861	420272.4	3734427	3.25E-10	1.49E-09	3.25E-12	1.82E-09	4.46E-11	2.03E-10	4.84E-13	2.48E-10	2.74E-11	9.34E-11	1.12E-13	1.21E-10
1862	420269.9	3734418	3.23E-10	1.48E-09	3.23E-12	1.80E-09	4.43E-11	2.02E-10	4.81E-13	2.47E-10	2.72E-11	9.28E-11	1.12E-13	1.20E-10
1863	420267.5	3734409	3.21E-10	1.47E-09	3.20E-12	1.79E-09	4.39E-11	2.00E-10	4.77E-13	2.45E-10	2.70E-11	9.21E-11	1.11E-13	1.19E-10
1864	420454.3	3734724	6.11E-10	2.80E-09	6.11E-12	3.41E-09	8.38E-11	3.82E-10	9.10E-13	4.67E-10	5.14E-11	1.76E-10	2.11E-13	2.27E-10
1865	420462.6	3734729	6.31E-10	2.88E-09	6.31E-12	3.52E-09	8.65E-11	3.94E-10	9.39E-13	4.82E-10	5.31E-11	1.81E-10	2.18E-13	2.35E-10
1866	420471	3734734	6.50E-10	2.97E-09	6.50E-12	3.63E-09	8.91E-11	4.06E-10	9.68E-13	4.97E-10	5.47E-11	1.87E-10	2.25E-13	2.42E-10
1867	420427.6	3734752	4.83E-10	2.21E-09	4.82E-12	2.69E-09	6.62E-11	3.02E-10	7.18E-13	3.69E-10	4.06E-11	1.39E-10	1.67E-13	1.79E-10
1868	420407.8	3734732	4.61E-10	2.11E-09	4.61E-12	2.57E-09	6.32E-11	2.88E-10	6.86E-13	3.52E-10	3.88E-11	1.32E-10	1.59E-13	1.71E-10
1869	420401.2	3734726	4.53E-10	2.07E-09	4.53E-12	2.53E-09	6.21E-11	2.83E-10	6.74E-13	3.46E-10	3.81E-11	1.30E-10	1.56E-13	1.68E-10
1870	420394.6	3734719	4.44E-10	2.03E-09	4.44E-12	2.48E-09	6.09E-11	2.78E-10	6.62E-13	3.39E-10	3.74E-11	1.28E-10	1.54E-13	1.65E-10
1871	420388	3734713	4.36E-10	1.99E-09	4.35E-12	2.43E-09	5.97E-11	2.72E-10	6.48E-13	3.33E-10	3.67E-11	1.25E-10	1.51E-13	1.62E-10
1872	420381.4	3734706	4.27E-10	1.95E-09	4.26E-12	2.38E-09	5.85E-11	2.67E-10	6.35E-13	3.26E-10	3.59E-11	1.23E-10	1.47E-13	1.59E-10
1873	420374.8	3734700	4.17E-10	1.91E-09	4.17E-12	2.33E-09	5.72E-11	2.61E-10	6.21E-13	3.19E-10	3.51E-11	1.20E-10	1.44E-13	1.55E-10
1874	420368.2	3734693	4.08E-10	1.87E-09	4.08E-12	2.28E-09	5.60E-11	2.55E-10	6.08E-13	3.12E-10	3.44E-11	1.17E-10	1.41E-13	1.52E-10
1875	420361.6	3734686	3.99E-10	1.82E-09	3.99E-12	2.23E-09	5.47E-11	2.50E-10	5.94E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.48E-10
1876	420355	3734680	3.90E-10	1.78E-09	3.90E-12	2.18E-09	5.35E-11	2.44E-10	5.81E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
1877	420348.3	3734673	3.81E-10	1.74E-09	3.81E-12	2.13E-09	5.22E-11	2.38E-10	5.67E-13	2.91E-10	3.21E-11	1.09E-10	1.32E-13	1.42E-10
1878	420341.7	3734667	3.72E-10	1.70E-09	3.72E-12	2.08E-09	5.10E-11	2.33E-10	5.54E-13	2.84E-10	3.13E-11	1.07E-10	1.29E-13	1.38E-10
1879	420335.1	3734660	3.63E-10	1.66E-09	3.63E-12	2.03E-09	4.98E-11	2.27E-10	5.41E-13	2.77E-10	3.06E-11	1.04E-10	1.26E-13	1.35E-10
1880	420328.5	3734653	3.55E-10	1.62E-09	3.54E-12	1.98E-09	4.86E-11	2.22E-10	5.28E-13	2.71E-10	2.98E-11	1.02E-10	1.23E-13	1.32E-10
1881	420321.9	3734647	3.46E-10	1.58E-09	3.46E-12	1.93E-09	4.74E-11	2.16E-10	5.15E-13	2.64E-10	2.91E-11	9.94E-11	1.20E-13	1.29E-10
1882	420315.3	3734640	3.37E-10	1.54E-09	3.37E-12	1.88E-09	4.63E-11	2.11E-10	5.02E-13	2.58E-10	2.84E-11	9.70E-11	1.17E-13	1.25E-10
1883	420288.9	3734614	3.04E-10	1.39E-09	3.04E-12	1.70E-09	4.17E-11	1.90E-10	4.53E-13	2.32E-10	2.56E-11	8.74E-11	1.05E-13	1.13E-10
1884	420279.8	3734598	2.95E-10	1.35E-09	2.95E-12	1.65E-09	4.05E-11	1.85E-10	4.39E-13	2.25E-10	2.48E-11	8.48E-11	1.02E-13	1.10E-10
1885	420277.3	3734589	2.94E-10	1.34E-09	2.94E-12	1.64E-09	4.03E-11	1.84E-10	4.38E-13	2.25E-10	2.47E-11	8.45E-11	1.02E-13	1.09E-10
1886	420274.8	3734580	2.93E-10	1.34E-09	2.93E-12	1.64E-09	4.02E-11	1.83E-10	4.36E-13	2.24E-10	2.47E-11	8.42E-11	1.01E-13	1.09E-10
1887	420272.3	3734571	2.92E-10	1.33E-09	2.92E-12	1.63E-09	4.00E-11	1.82E-10	4.34E-13	2.23E-10	2.45E-11	8.38E-11	1.01E-13	1.08E-10
1888	420269.8	3734562	2.90E-10	1.33E-09	2.90E-12	1.62E-09	3.98E-11	1.82E-10	4.32E-13	2.22E-10	2.44E-11	8.34E-11	1.00E-13	1.08E-10
1889	420262.4	3734535	2.86E-10	1.31E-09	2.86E-12	1.59E-09	3.92E-11	1.79E-10	4.25E-13	2.18E-10	2.40E-11	8.21E-11	9.87E-14	1.06E-10
1890	420259.9	3734526	2.84E-10	1.30E-09	2.84E-12	1.59E-09	3.89E-11	1.78E-10	4.23E-13	2.17E-10	2.39E-11	8.16E-11	9.81E-14	1.06E-10
1891	420257.4	3734518	2.82E-10	1.29E-09	2.82E-12	1.58E-09	3.87E-11	1.77E-10	4.20E-13	2.16E-10	2.38E-11	8.11E-11	9.76E-14	1.05E-10
1892	420254.9	3734509	2.81E-10	1.28E-09	2.80E-12	1.57E-09	3.85E-11	1.75E-10	4.18E-13	2.14E-10	2.36E-11	8.06E-11	9.69E-14	1.04E-10
1893	420252.4	3734500	2.79E-10	1.27E-09	2.79E-12	1.56E-09	3.82E-11	1.74E-10	4.15E-13	2.13E-10	2.35E-11	8.01E-11	9.63E-14	1.04E-10
1894	420249.9	3734491	2.77E-10	1.27E-09	2.77E-12	1.55E-09	3.80E-11	1.73E-10	4.12E-13	2.12E-10	2.33E-11	7.96E-11	9.58E-14	1.03E-10

1895	420247.4	3734482	2.75E-10	1.26E-09	2.75E-12	1.54E-09	3.77E-11	1.72E-10	4.10E-13	2.10E-10	2.32E-11	7.91E-11	9.51E-14	1.02E-10
1896	420244.9	3734473	2.74E-10	1.25E-09	2.73E-12	1.53E-09	3.75E-11	1.71E-10	4.07E-13	2.09E-10	2.30E-11	7.86E-11	9.45E-14	1.02E-10
1897	420235	3734437	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.97E-13	2.04E-10	2.24E-11	7.66E-11	9.22E-14	9.92E-11
1898	420232.5	3734428	2.65E-10	1.21E-09	2.65E-12	1.48E-09	3.63E-11	1.66E-10	3.94E-13	2.02E-10	2.23E-11	7.61E-11	9.16E-14	9.85E-11
1899	420230	3734419	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.61E-11	1.65E-10	3.92E-13	2.01E-10	2.22E-11	7.57E-11	9.10E-14	9.79E-11
1900	420227.5	3734410	2.62E-10	1.20E-09	2.61E-12	1.46E-09	3.59E-11	1.64E-10	3.89E-13	2.00E-10	2.20E-11	7.52E-11	9.04E-14	9.73E-11
1901	420434.2	3734759	4.89E-10	2.24E-09	4.89E-12	2.73E-09	6.70E-11	3.06E-10	7.28E-13	3.73E-10	4.11E-11	1.41E-10	1.69E-13	1.82E-10
1902	420442.5	3734764	5.02E-10	2.30E-09	5.02E-12	2.80E-09	6.88E-11	3.14E-10	7.48E-13	3.84E-10	4.22E-11	1.44E-10	1.74E-13	1.87E-10
1903	420450.9	3734768	5.15E-10	2.35E-09	5.15E-12	2.87E-09	7.06E-11	3.22E-10	7.67E-13	3.93E-10	4.33E-11	1.48E-10	1.78E-13	1.91E-10
1904	420459.2	3734773	5.28E-10	2.41E-09	5.27E-12	2.95E-09	7.23E-11	3.30E-10	7.85E-13	4.03E-10	4.44E-11	1.52E-10	1.82E-13	1.96E-10
1905	420467.6	3734778	5.40E-10	2.47E-09	5.40E-12	3.01E-09	7.40E-11	3.38E-10	8.04E-13	4.12E-10	4.54E-11	1.55E-10	1.87E-13	2.01E-10
1906	420407.5	3734787	3.93E-10	1.80E-09	3.93E-12	2.19E-09	5.39E-11	2.46E-10	5.85E-13	3.00E-10	3.31E-11	1.13E-10	1.36E-13	1.46E-10
1907	420387.5	3734767	3.79E-10	1.73E-09	3.79E-12	2.12E-09	5.19E-11	2.37E-10	5.64E-13	2.89E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
1908	420380.9	3734760	3.73E-10	1.71E-09	3.73E-12	2.08E-09	5.12E-11	2.33E-10	5.56E-13	2.85E-10	3.14E-11	1.07E-10	1.29E-13	1.39E-10
1909	420374.2	3734754	3.67E-10	1.68E-09	3.67E-12	2.05E-09	5.03E-11	2.30E-10	5.47E-13	2.80E-10	3.09E-11	1.06E-10	1.27E-13	1.37E-10
1910	420367.5	3734747	3.61E-10	1.65E-09	3.61E-12	2.01E-09	4.95E-11	2.26E-10	5.37E-13	2.76E-10	3.04E-11	1.04E-10	1.25E-13	1.34E-10
1911	420360.9	3734740	3.55E-10	1.62E-09	3.54E-12	1.98E-09	4.86E-11	2.22E-10	5.28E-13	2.71E-10	2.98E-11	1.02E-10	1.23E-13	1.32E-10
1912	420354.2	3734734	3.48E-10	1.59E-09	3.48E-12	1.94E-09	4.77E-11	2.17E-10	5.18E-13	2.66E-10	2.93E-11	9.99E-11	1.20E-13	1.29E-10
1913	420347.6	3734727	3.41E-10	1.56E-09	3.41E-12	1.90E-09	4.67E-11	2.13E-10	5.08E-13	2.60E-10	2.87E-11	9.80E-11	1.18E-13	1.27E-10
1914	420340.9	3734720	3.34E-10	1.53E-09	3.34E-12	1.87E-09	4.58E-11	2.09E-10	4.97E-13	2.55E-10	2.81E-11	9.60E-11	1.15E-13	1.24E-10
1915	420334.3	3734714	3.27E-10	1.50E-09	3.27E-12	1.83E-09	4.49E-11	2.05E-10	4.87E-13	2.50E-10	2.75E-11	9.40E-11	1.13E-13	1.22E-10
1916	420327.6	3734707	3.21E-10	1.47E-09	3.20E-12	1.79E-09	4.39E-11	2.00E-10	4.77E-13	2.45E-10	2.70E-11	9.21E-11	1.11E-13	1.19E-10
1917	420321	3734701	3.14E-10	1.44E-09	3.14E-12	1.75E-09	4.30E-11	1.96E-10	4.67E-13	2.40E-10	2.64E-11	9.02E-11	1.08E-13	1.17E-10
1918	420314.3	3734694	3.07E-10	1.41E-09	3.07E-12	1.72E-09	4.21E-11	1.92E-10	4.58E-13	2.35E-10	2.59E-11	8.83E-11	1.06E-13	1.14E-10
1919	420294.3	3734674	2.88E-10	1.32E-09	2.88E-12	1.61E-09	3.95E-11	1.80E-10	4.29E-13	2.20E-10	2.42E-11	8.27E-11	9.95E-14	1.07E-10
1920	420287.7	3734667	2.82E-10	1.29E-09	2.81E-12	1.57E-09	3.86E-11	1.76E-10	4.19E-13	2.15E-10	2.37E-11	8.09E-11	9.73E-14	1.05E-10
1921	420281	3734661	2.75E-10	1.26E-09	2.75E-12	1.54E-09	3.77E-11	1.72E-10	4.10E-13	2.10E-10	2.32E-11	7.91E-11	9.51E-14	1.02E-10
1922	420274.4	3734654	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.69E-11	1.68E-10	4.01E-13	2.06E-10	2.26E-11	7.73E-11	9.30E-14	1.00E-10
1923	420267.7	3734647	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.60E-11	1.64E-10	3.91E-13	2.01E-10	2.21E-11	7.55E-11	9.08E-14	9.77E-11
1924	420261.1	3734641	2.57E-10	1.17E-09	2.57E-12	1.43E-09	3.52E-11	1.60E-10	3.82E-13	1.96E-10	2.16E-11	7.38E-11	8.87E-14	9.54E-11
1925	420254.4	3734634	2.50E-10	1.15E-09	2.50E-12	1.40E-09	3.43E-11	1.57E-10	3.73E-13	1.91E-10	2.11E-11	7.20E-11	8.66E-14	9.31E-11
1926	420245.3	3734618	2.44E-10	1.11E-09	2.44E-12	1.36E-09	3.34E-11	1.52E-10	3.63E-13	1.86E-10	2.05E-11	7.00E-11	8.42E-14	9.06E-11
1927	420242.7	3734609	2.43E-10	1.11E-09	2.43E-12	1.36E-09	3.33E-11	1.52E-10	3.61E-13	1.85E-10	2.04E-11	6.98E-11	8.39E-14	9.03E-11
1928	420240.2	3734600	2.42E-10	1.11E-09	2.42E-12	1.35E-09	3.32E-11	1.51E-10	3.60E-13	1.85E-10	2.04E-11	6.95E-11	8.36E-14	9.00E-11
1929	420237.7	3734591	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.93E-11	8.34E-14	8.97E-11
1930	420235.2	3734582	2.40E-10	1.10E-09	2.40E-12	1.34E-09	3.29E-11	1.50E-10	3.58E-13	1.84E-10	2.02E-11	6.90E-11	8.30E-14	8.93E-11
1931	420232.7	3734573	2.39E-10	1.09E-09	2.39E-12	1.34E-09	3.28E-11	1.50E-10	3.56E-13	1.83E-10	2.01E-11	6.87E-11	8.27E-14	8.89E-11
1932	420230.2	3734564	2.38E-10	1.09E-09	2.38E-12	1.33E-09	3.26E-11	1.49E-10	3.54E-13	1.82E-10	2.00E-11	6.84E-11	8.23E-14	8.85E-11
1933	420222.7	3734537	2.34E-10	1.07E-09	2.34E-12	1.31E-09	3.21E-11	1.47E-10	3.49E-13	1.79E-10	1.97E-11	6.74E-11	8.10E-14	8.72E-11
1934	420220.2	3734528	2.33E-10	1.07E-09	2.33E-12	1.30E-09	3.20E-11	1.46E-10	3.47E-13	1.78E-10	1.96E-11	6.70E-11	8.06E-14	8.67E-11
1935	420217.6	3734519	2.32E-10	1.06E-09	2.32E-12	1.29E-09	3.18E-11	1.45E-10	3.45E-13	1.77E-10	1.95E-11	6.66E-11	8.01E-14	8.62E-11
1936	420215.1	3734510	2.31E-10	1.05E-09	2.31E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.63E-11	7.97E-14	8.58E-11
1937	420212.6	3734501	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.14E-11	1.43E-10	3.42E-13	1.75E-10	1.93E-11	6.59E-11	7.93E-14	8.53E-11
1938	420210.1	3734492	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.13E-11	1.43E-10	3.40E-13	1.74E-10	1.92E-11	6.56E-11	7.89E-14	8.48E-11
1939	420207.6	3734483	2.27E-10	1.04E-09	2.27E-12	1.27E-09	3.11E-11	1.42E-10	3.38E-13	1.73E-10	1.91E-11	6.52E-11	7.85E-14	8.44E-11
1940	420205.1	3734474	2.26E-10	1.03E-09	2.26E-12	1.26E-09	3.10E-11	1.41E-10	3.36E-13	1.73E-10	1.90E-11	6.49E-11	7.81E-14	8.40E-11
1941	420202.6	3734465	2.25E-10	1.03E-09	2.25E-12	1.25E-09	3.08E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.46E-11	7.77E-14	8.36E-11
1942	420195	3734437	2.21E-10	1.01E-09	2.21E-12	1.23E-09	3.03E-11	1.38E-10	3.29E-13	1.69E-10	1.86E-11	6.35E-11	7.64E-14	8.22E-11
1943	420192.5	3734428	2.20E-10	1.00E-09	2.20E-12	1.23E-09	3.01E-11	1.37E-10	3.27E-13	1.68E-10	1.85E-11	6.32E-11	7.60E-14	8.17E-11
1944	420190	3734419	2.19E-10	9.99E-10	2.18E-12	1.22E-09	3.00E-11	1.37E-10	3.25E-13	1.67E-10	1.84E-11	6.28E-11	7.55E-14	8.13E-11
1945	420187.5	3734410	2.17E-10	9.93E-10	2.17E-12	1.21E-09	2.98E-11	1.36E-10	3.23E-13	1.66E-10	1.83E-11	6.24E-11	7.51E-14	8.08E-11
1946	420414.1	3734793	3.97E-10	1.82E-09	3.97E-12	2.22E-09	5.44E-11	2.48E-10	5.91E-13	3.03E-10	3.34E-11	1.14E-10	1.37E-13	1.48E-10
1947	420422.5	3734798	4.06E-10	1.86E-09	4.06E-12	2.27E-09	5.57E-11	2.54E-10	6.05E-13	3.10E-10	3.42E-11	1.17E-10	1.40E-13	1.51E-10
1948	420430.8	3734803	4.15E-10	1.90E-09	4.15E-12	2.32E-09	5.69E-11	2.60E-10	6.18E-13	3.17E-10	3.49E-11	1.19E-10	1.44E-13	1.54E-10
1949	420439.2	3734808	4.24E-10	1.94E-09	4.24E-12	2.37E-09	5.81E-11	2.65E-10	6.31E-13	3.24E-10	3.57E-11	1.22E-10	1.47E-13	1.58E-10
1950	420447.5	3734813	4.33E-10	1.98E-09	4.32E-12	2.41E-09	5.93E-11	2.70E-10	6.44E-13	3.30E-10	3.64E-11	1.24E-10	1.49E-13	1.61E-10
1951	420367.3	3734801	3.15E-10	1.44E-09	3.15E-12	1.76E-09	4.32E-11	1.97E-10	4.69E-13	2.41E-10	2.65E-11	9.06E-11	1.09E-13	1.17E-10
1952	420360.6	3734795	3.11E-10	1.42E-09	3.11E-12	1.74E-09	4.27E-11	1.95E-10	4.63E-13	2.38E-10	2.62E-11	8.94E-11	1.08E-13	1.16E-10
1953	420353.9	3734788	3.07E-10	1.40E-09	3.07E-12	1.71E-09	4.21E-11	1.92E-10	4.57E-13	2.34E-10	2.58E-11	8.82E-11	1.06E-13	1.14E-10
1954	420313.7	3734748	2.78E-10	1.27E-09	2.78E-12	1.55E-09	3.81E-11	1.74E-10	4.14E-13	2.12E-10	2.34E-11	7.99E-11	9.61E-14	1.03E-10
1955	420293.6	3734728	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.60E-11	1.64E-10	3.91E-13	2.01E-10	2.21E-11	7.55E-11	9.08E-14	9.77E-11
1956	420286.9	3734721	2.58E-10	1.18E-09	2.58E-12	1.44E-09	3.53E-11	1.61E-10	3.84E-13	1.97E-10	2.17E-11	7.41E-11	8.91E-14	9.59E-11
1957	420280.2	3734714	2.53E-10	1.16E-09	2.53E-12	1.41E-09	3.47E-11	1.58E-10	3.76E-13	1.93E-10	2.13E-11	7.27E-11	8.74E-14	9.40E-11
1958	420273.5	3734708	2.48E-10	1.13E-09	2.48E-12	1.38E-09	3.40E-11	1.55E-10	3.69E-13	1.89E-10	2.09E-11	7.12E-11	8.57E-14	9.22E-11
1959	420266.8	3734701	2.43E-10	1.11E-09	2.43E-12	1.36E-09	3.33E-11	1.52E-10	3.62E-13	1.86E-10	2.04E-11	6.98E-11	8.40E-14	9.03E-11
1960	420260.1	3734694	2.38E-10	1.09E-09	2.38E-12	1.33E-09	3.26E-11	1.49E-10	3.54E-13	1.82E-10	2.00E-11	6.84E-11	8.23E-14	8.85E-11
1961	420253.4	3734688	2.33E-10	1.07E-09	2.33E-12	1.30E-09	3.20E-11	1.46E-10	3.47E-13	1.78E-10	1.96E-11	6.70E-11	8.06E-14	8.67E-11
1962	420246.7	3734681	2.29E-10	1.04E-09	2.28E-12	1.28E-09	3.13E-11	1.43E-10	3.40E-13	1.75E-10	1.92E-11	6.57E-11	7.90E-14	8.50E-11
1963	420240	3734674	2.24E-10	1.02E-09	2.24E-12	1.25E-09	3.07E-11	1.40E-10	3.33E-13	1.71E-10	1.88E-11	6.43E-11	7.73E-14	8.32E-11
1964	420233.3	3734668	2.19E-10	1.00E-09	2.19E-12	1.22E-09	3.00E-11	1.37E-10	3.26E-13	1.67E-10	1.84E-11	6.29E-11	7.57E-14	8.14E-11
1965	420226.6	3734661	2.14E-10	9.80E-10	2.14E-12	1.20E-09	2.94E-11	1.34E-10	3.19E-13	1.64E-10	1.80E-11	6.16E-11	7.40E-14	7.97E-11
1966	420219.9	3734654	2.10E-10	9.58E-10	2.09E-12	1.17E-09	2.87E-11	1.31E-10	3.12E-13	1.60E-10	1.76E-11	6.02E-11	7.24E-14	7.79E-11
1967	420200.6	3734602	2.02E-10	9.25E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.01E-13	1.54E-10	1.70E-11	5.81E-11	6.99E-14	7.52E-11

1968	420198.1	3734593	2.01E-10	9.21E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.69E-11	5.79E-11	6.96E-14	7.49E-11
1969	420195.5	3734584	2.01E-10	9.17E-10	2.00E-12	1.12E-09	2.75E-11	1.25E-10	2.99E-13	1.53E-10	1.69E-11	5.76E-11	6.93E-14	7.46E-11
1970	420193	3734575	2.00E-10	9.13E-10	2.00E-12	1.11E-09	2.74E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.74E-11	6.90E-14	7.42E-11
1971	420190.5	3734566	1.99E-10	9.09E-10	1.99E-12	1.11E-09	2.72E-11	1.24E-10	2.96E-13	1.52E-10	1.67E-11	5.71E-11	6.87E-14	7.39E-11
1972	420182.9	3734538	1.96E-10	8.96E-10	1.96E-12	1.09E-09	2.69E-11	1.22E-10	2.92E-13	1.50E-10	1.65E-11	5.63E-11	6.77E-14	7.28E-11
1973	420180.4	3734529	1.95E-10	8.92E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.60E-11	6.74E-14	7.25E-11
1974	420177.9	3734520	1.94E-10	8.87E-10	1.94E-12	1.08E-09	2.66E-11	1.21E-10	2.89E-13	1.48E-10	1.63E-11	5.58E-11	6.71E-14	7.22E-11
1975	420175.3	3734511	1.93E-10	8.83E-10	1.93E-12	1.08E-09	2.65E-11	1.21E-10	2.88E-13	1.48E-10	1.63E-11	5.55E-11	6.68E-14	7.18E-11
1976	420172.8	3734502	1.92E-10	8.79E-10	1.92E-12	1.07E-09	2.64E-11	1.20E-10	2.86E-13	1.47E-10	1.62E-11	5.52E-11	6.64E-14	7.15E-11
1977	420170.3	3734493	1.91E-10	8.75E-10	1.91E-12	1.07E-09	2.62E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.50E-11	6.61E-14	7.12E-11
1978	420167.7	3734484	1.90E-10	8.71E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.84E-13	1.45E-10	1.60E-11	5.47E-11	6.58E-14	7.08E-11
1979	420165.2	3734475	1.90E-10	8.67E-10	1.90E-12	1.06E-09	2.60E-11	1.19E-10	2.82E-13	1.45E-10	1.60E-11	5.45E-11	6.55E-14	7.05E-11
1980	420155.1	3734438	1.86E-10	8.51E-10	1.86E-12	1.04E-09	2.55E-11	1.16E-10	2.77E-13	1.42E-10	1.57E-11	5.35E-11	6.43E-14	6.92E-11
1981	420152.6	3734429	1.85E-10	8.46E-10	1.85E-12	1.03E-09	2.54E-11	1.16E-10	2.76E-13	1.41E-10	1.56E-11	5.32E-11	6.40E-14	6.88E-11
1982	420150.1	3734420	1.84E-10	8.42E-10	1.84E-12	1.03E-09	2.52E-11	1.15E-10	2.74E-13	1.41E-10	1.55E-11	5.29E-11	6.36E-14	6.85E-11
1983	420147.5	3734411	1.83E-10	8.38E-10	1.83E-12	1.02E-09	2.51E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.26E-11	6.33E-14	6.81E-11
1984	420394.1	3734828	3.28E-10	1.50E-09	3.28E-12	1.83E-09	4.50E-11	2.05E-10	4.88E-13	2.50E-10	2.76E-11	9.42E-11	1.13E-13	1.22E-10
1985	420402.4	3734833	3.35E-10	1.53E-09	3.34E-12	1.87E-09	4.59E-11	2.09E-10	4.98E-13	2.55E-10	2.81E-11	9.61E-11	1.16E-13	1.24E-10
1986	420410.7	3734838	3.41E-10	1.56E-09	3.41E-12	1.90E-09	4.67E-11	2.13E-10	5.07E-13	2.60E-10	2.87E-11	9.79E-11	1.18E-13	1.27E-10
1987	420419.1	3734843	3.47E-10	1.59E-09	3.47E-12	1.94E-09	4.76E-11	2.17E-10	5.17E-13	2.65E-10	2.92E-11	9.97E-11	1.20E-13	1.29E-10
1988	420427.4	3734847	3.53E-10	1.61E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.25E-13	2.70E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
1989	420353.8	3734842	2.68E-10	1.22E-09	2.68E-12	1.49E-09	3.67E-11	1.67E-10	3.99E-13	2.05E-10	2.25E-11	7.69E-11	9.25E-14	9.96E-11
1990	420347	3734836	2.65E-10	1.21E-09	2.65E-12	1.48E-09	3.64E-11	1.66E-10	3.95E-13	2.03E-10	2.23E-11	7.62E-11	9.17E-14	9.87E-11
1991	420340.3	3734829	2.62E-10	1.20E-09	2.62E-12	1.47E-09	3.60E-11	1.64E-10	3.91E-13	2.00E-10	2.21E-11	7.54E-11	9.07E-14	9.76E-11
1992	420333.6	3734822	2.59E-10	1.18E-09	2.59E-12	1.45E-09	3.55E-11	1.62E-10	3.86E-13	1.98E-10	2.18E-11	7.45E-11	8.95E-14	9.63E-11
1993	420326.8	3734816	2.56E-10	1.17E-09	2.56E-12	1.43E-09	3.51E-11	1.60E-10	3.81E-13	1.95E-10	2.15E-11	7.35E-11	8.84E-14	9.52E-11
1994	420320.1	3734809	2.53E-10	1.16E-09	2.53E-12	1.41E-09	3.47E-11	1.58E-10	3.76E-13	1.93E-10	2.13E-11	7.27E-11	8.74E-14	9.40E-11
1995	420313.4	3734802	2.49E-10	1.14E-09	2.49E-12	1.39E-09	3.42E-11	1.56E-10	3.71E-13	1.90E-10	2.10E-11	7.17E-11	8.62E-14	9.27E-11
1996	420306.6	3734795	2.46E-10	1.12E-09	2.45E-12	1.37E-09	3.37E-11	1.54E-10	3.66E-13	1.88E-10	2.07E-11	7.06E-11	8.49E-14	9.13E-11
1997	420299.9	3734789	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.93E-11	8.34E-14	8.97E-11
1998	420293.2	3734782	2.38E-10	1.09E-09	2.37E-12	1.33E-09	3.26E-11	1.49E-10	3.54E-13	1.81E-10	2.00E-11	6.83E-11	8.21E-14	8.83E-11
1999	420286.4	3734775	2.34E-10	1.07E-09	2.34E-12	1.30E-09	3.20E-11	1.46E-10	3.48E-13	1.78E-10	1.97E-11	6.71E-11	8.07E-14	8.69E-11
2000	420266.2	3734755	2.23E-10	1.02E-09	2.23E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.40E-11	7.69E-14	8.28E-11
2001	420239.3	3734728	2.07E-10	9.48E-10	2.07E-12	1.16E-09	2.84E-11	1.30E-10	3.09E-13	1.58E-10	1.74E-11	5.96E-11	7.17E-14	7.71E-11
2002	420232.6	3734722	2.04E-10	9.31E-10	2.04E-12	1.14E-09	2.79E-11	1.27E-10	3.03E-13	1.56E-10	1.71E-11	5.85E-11	7.04E-14	7.57E-11
2003	420225.8	3734715	2.00E-10	9.14E-10	2.00E-12	1.12E-09	2.74E-11	1.25E-10	2.98E-13	1.53E-10	1.68E-11	5.74E-11	6.91E-14	7.43E-11
2004	420219.1	3734708	1.96E-10	8.97E-10	1.96E-12	1.09E-09	2.69E-11	1.23E-10	2.92E-13	1.50E-10	1.65E-11	5.64E-11	6.78E-14	7.29E-11
2005	420198.9	3734688	1.85E-10	8.46E-10	1.85E-12	1.03E-09	2.54E-11	1.16E-10	2.75E-13	1.41E-10	1.56E-11	5.32E-11	6.39E-14	6.88E-11
2006	420192.2	3734681	1.81E-10	8.29E-10	1.81E-12	1.01E-09	2.49E-11	1.13E-10	2.70E-13	1.39E-10	1.53E-11	5.21E-11	6.27E-14	6.74E-11
2007	420185.4	3734675	1.78E-10	8.13E-10	1.78E-12	9.92E-10	2.44E-11	1.11E-10	2.65E-13	1.36E-10	1.50E-11	5.11E-11	6.14E-14	6.61E-11
2008	420176.2	3734659	1.74E-10	7.96E-10	1.74E-12	9.71E-10	2.39E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	5.00E-11	6.01E-14	6.47E-11
2009	420173.6	3734650	1.74E-10	7.94E-10	1.74E-12	9.70E-10	2.38E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	4.99E-11	6.00E-14	6.46E-11
2010	420171.1	3734640	1.73E-10	7.93E-10	1.73E-12	9.68E-10	2.38E-11	1.08E-10	2.58E-13	1.32E-10	1.46E-11	4.98E-11	5.99E-14	6.45E-11
2011	420168.5	3734631	1.73E-10	7.91E-10	1.73E-12	9.65E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.46E-11	4.97E-11	5.98E-14	6.43E-11
2012	420166	3734622	1.72E-10	7.89E-10	1.72E-12	9.63E-10	2.36E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.96E-14	6.41E-11
2013	420163.4	3734613	1.72E-10	7.86E-10	1.72E-12	9.59E-10	2.36E-11	1.07E-10	2.56E-13	1.31E-10	1.45E-11	4.94E-11	5.94E-14	6.39E-11
2014	420160.9	3734604	1.71E-10	7.83E-10	1.71E-12	9.56E-10	2.35E-11	1.07E-10	2.55E-13	1.31E-10	1.44E-11	4.92E-11	5.92E-14	6.37E-11
2015	420158.4	3734595	1.71E-10	7.80E-10	1.71E-12	9.52E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.44E-11	4.90E-11	5.90E-14	6.34E-11
2016	420155.8	3734585	1.70E-10	7.76E-10	1.70E-12	9.48E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.87E-14	6.31E-11
2017	420153.3	3734576	1.69E-10	7.73E-10	1.69E-12	9.44E-10	2.32E-11	1.06E-10	2.52E-13	1.29E-10	1.42E-11	4.86E-11	5.84E-14	6.29E-11
2018	420150.7	3734567	1.68E-10	7.70E-10	1.68E-12	9.40E-10	2.31E-11	1.05E-10	2.51E-13	1.29E-10	1.42E-11	4.84E-11	5.82E-14	6.26E-11
2019	420140.6	3734530	1.65E-10	7.56E-10	1.65E-12	9.23E-10	2.27E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.75E-11	5.71E-14	6.15E-11
2020	420138	3734521	1.64E-10	7.52E-10	1.64E-12	9.18E-10	2.25E-11	1.03E-10	2.45E-13	1.26E-10	1.38E-11	4.73E-11	5.68E-14	6.12E-11
2021	420135.5	3734512	1.64E-10	7.49E-10	1.64E-12	9.14E-10	2.25E-11	1.02E-10	2.44E-13	1.25E-10	1.38E-11	4.71E-11	5.66E-14	6.09E-11
2022	420133	3734503	1.63E-10	7.46E-10	1.63E-12	9.10E-10	2.24E-11	1.02E-10	2.43E-13	1.25E-10	1.37E-11	4.69E-11	5.64E-14	6.06E-11
2023	420130.4	3734494	1.62E-10	7.42E-10	1.62E-12	9.06E-10	2.22E-11	1.01E-10	2.42E-13	1.24E-10	1.37E-11	4.66E-11	5.61E-14	6.03E-11
2024	420127.9	3734485	1.61E-10	7.38E-10	1.61E-12	9.01E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.64E-11	5.58E-14	6.00E-11
2025	420125.3	3734475	1.61E-10	7.36E-10	1.61E-12	8.99E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.35E-11	4.63E-11	5.56E-14	5.99E-11
2026	420115.2	3734439	1.59E-10	7.25E-10	1.58E-12	8.85E-10	2.17E-11	9.91E-11	2.36E-13	1.21E-10	1.33E-11	4.55E-11	5.48E-14	5.89E-11
2027	420112.6	3734430	1.58E-10	7.22E-10	1.58E-12	8.81E-10	2.16E-11	9.87E-11	2.35E-13	1.21E-10	1.33E-11	4.54E-11	5.46E-14	5.87E-11
2028	420110.1	3734420	1.57E-10	7.19E-10	1.57E-12	8.77E-10	2.15E-11	9.83E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.43E-14	5.84E-11
2029	420107.5	3734411	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.78E-11	2.33E-13	1.19E-10	1.32E-11	4.50E-11	5.41E-14	5.82E-11
2030	420374	3734863	2.73E-10	1.25E-09	2.73E-12	1.52E-09	3.74E-11	1.71E-10	4.07E-13	2.09E-10	2.30E-11	7.85E-11	9.44E-14	1.02E-10
2031	420382.3	3734867	2.77E-10	1.27E-09	2.77E-12	1.55E-09	3.80E-11	1.73E-10	4.13E-13	2.12E-10	2.33E-11	7.97E-11	9.59E-14	1.03E-10
2032	420390.7	3734872	2.82E-10	1.29E-09	2.81E-12	1.57E-09	3.86E-11	1.76E-10	4.19E-13	2.15E-10	2.37E-11	8.09E-11	9.73E-14	1.05E-10
2033	420399	3734877	2.86E-10	1.31E-09	2.86E-12	1.60E-09	3.92E-11	1.79E-10	4.25E-13	2.18E-10	2.40E-11	8.21E-11	9.88E-14	1.06E-10
2034	420407.4	3734882	2.90E-10	1.33E-09	2.90E-12	1.62E-09	3.98E-11	1.82E-10	4.32E-13	2.22E-10	2.44E-11	8.35E-11	1.00E-13	1.08E-10
2035	420333.6	3734877	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.12E-11	1.42E-10	3.39E-13	1.74E-10	1.92E-11	6.54E-11	7.87E-14	8.47E-11
2036	420326.8	3734870	2.26E-10	1.04E-09	2.26E-12	1.26E-09	3.10E-11	1.42E-10	3.37E-13	1.73E-10	1.90E-11	6.50E-11	7.82E-14	8.42E-11
2037	420320.1	3734863	2.25E-10	1.03E-09	2.25E-12	1.25E-09	3.08E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.46E-11	7.77E-14	8.36E-11
2038	420313.3	3734857	2.23E-10	1.02E-09	2.23E-12	1.24E-09	3.06E-11	1.39E-10	3.32E-13	1.70E-10	1.88E-11	6.41E-11	7.70E-14	8.29E-11
2039	420306.5	3734850	2.21E-10	1.01E-09	2.21E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.69E-10	1.86E-11	6.34E-11	7.62E-14	8.20E-11
2040	420299.8	3734843	2.18E-10	9.97E-10	2.18E-12	1.22E-09	2.99E-11	1.36E-10	3.25E-13	1.67E-10	1.83E-11	6.27E-11	7.54E-14	8.11E-11

2041	420293	3734836	2.16E-10	9.85E-10	2.15E-12	1.20E-09	2.95E-11	1.35E-10	3.21E-13	1.65E-10	1.81E-11	6.19E-11	7.45E-14	8.01E-11
2042	420286.2	3734830	2.12E-10	9.71E-10	2.12E-12	1.19E-09	2.91E-11	1.33E-10	3.16E-13	1.62E-10	1.79E-11	6.10E-11	7.34E-14	7.90E-11
2043	420279.5	3734823	2.09E-10	9.56E-10	2.09E-12	1.17E-09	2.87E-11	1.31E-10	3.11E-13	1.60E-10	1.76E-11	6.01E-11	7.23E-14	7.78E-11
2044	420272.7	3734816	2.06E-10	9.42E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.07E-13	1.57E-10	1.73E-11	5.92E-11	7.12E-14	7.66E-11
2045	420265.9	3734810	2.03E-10	9.29E-10	2.03E-12	1.13E-09	2.79E-11	1.27E-10	3.03E-13	1.55E-10	1.71E-11	5.84E-11	7.03E-14	7.56E-11
2046	420245.6	3734789	1.95E-10	8.91E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.60E-11	6.73E-14	7.24E-11
2047	420238.9	3734783	1.92E-10	8.77E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.51E-11	6.63E-14	7.13E-11
2048	420232.1	3734776	1.89E-10	8.62E-10	1.89E-12	1.05E-09	2.59E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.42E-11	6.52E-14	7.01E-11
2049	420225.3	3734769	1.85E-10	8.48E-10	1.85E-12	1.04E-09	2.54E-11	1.16E-10	2.76E-13	1.42E-10	1.56E-11	5.33E-11	6.41E-14	6.90E-11
2050	420218.6	3734762	1.82E-10	8.34E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.24E-11	6.30E-14	6.78E-11
2051	420211.8	3734756	1.79E-10	8.20E-10	1.79E-12	1.00E-09	2.46E-11	1.12E-10	2.67E-13	1.37E-10	1.51E-11	5.15E-11	6.20E-14	6.67E-11
2052	420184.8	3734729	1.67E-10	7.64E-10	1.67E-12	9.33E-10	2.29E-11	1.04E-10	2.49E-13	1.28E-10	1.41E-11	4.80E-11	5.78E-14	6.21E-11
2053	420178	3734722	1.64E-10	7.50E-10	1.64E-12	9.16E-10	2.25E-11	1.03E-10	2.44E-13	1.25E-10	1.38E-11	4.72E-11	5.67E-14	6.10E-11
2054	420171.2	3734715	1.61E-10	7.37E-10	1.61E-12	9.00E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.63E-11	5.57E-14	6.00E-11
2055	420164.5	3734708	1.58E-10	7.24E-10	1.58E-12	8.84E-10	2.17E-11	9.90E-11	2.36E-13	1.21E-10	1.33E-11	4.55E-11	5.47E-14	5.89E-11
2056	420157.7	3734702	1.56E-10	7.11E-10	1.55E-12	8.68E-10	2.13E-11	9.72E-11	2.31E-13	1.19E-10	1.31E-11	4.47E-11	5.37E-14	5.78E-11
2057	420150.9	3734695	1.53E-10	6.98E-10	1.53E-12	8.52E-10	2.09E-11	9.55E-11	2.27E-13	1.17E-10	1.28E-11	4.39E-11	5.28E-14	5.68E-11
2058	420141.6	3734679	1.50E-10	6.85E-10	1.50E-12	8.36E-10	2.05E-11	9.36E-11	2.23E-13	1.14E-10	1.26E-11	4.30E-11	5.18E-14	5.57E-11
2059	420139	3734670	1.50E-10	6.84E-10	1.50E-12	8.35E-10	2.05E-11	9.35E-11	2.23E-13	1.14E-10	1.26E-11	4.30E-11	5.17E-14	5.56E-11
2060	420136.5	3734660	1.49E-10	6.83E-10	1.49E-12	8.34E-10	2.05E-11	9.34E-11	2.22E-13	1.14E-10	1.26E-11	4.29E-11	5.16E-14	5.55E-11
2061	420133.9	3734651	1.49E-10	6.82E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
2062	420131.4	3734642	1.49E-10	6.80E-10	1.49E-12	8.30E-10	2.04E-11	9.30E-11	2.21E-13	1.14E-10	1.25E-11	4.27E-11	5.14E-14	5.53E-11
2063	420128.8	3734633	1.48E-10	6.78E-10	1.48E-12	8.28E-10	2.03E-11	9.27E-11	2.21E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
2064	420126.3	3734624	1.48E-10	6.76E-10	1.48E-12	8.25E-10	2.03E-11	9.24E-11	2.20E-13	1.13E-10	1.24E-11	4.25E-11	5.11E-14	5.50E-11
2065	420123.7	3734614	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.21E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.48E-11
2066	420121.2	3734605	1.47E-10	6.71E-10	1.47E-12	8.19E-10	2.01E-11	9.18E-11	2.18E-13	1.12E-10	1.23E-11	4.22E-11	5.07E-14	5.46E-11
2067	420118.6	3734596	1.46E-10	6.69E-10	1.46E-12	8.16E-10	2.00E-11	9.14E-11	2.18E-13	1.12E-10	1.23E-11	4.20E-11	5.05E-14	5.44E-11
2068	420116.1	3734587	1.46E-10	6.66E-10	1.46E-12	8.13E-10	2.00E-11	9.11E-11	2.17E-13	1.11E-10	1.23E-11	4.19E-11	5.04E-14	5.42E-11
2069	420113.5	3734578	1.45E-10	6.63E-10	1.45E-12	8.10E-10	1.99E-11	9.07E-11	2.16E-13	1.11E-10	1.22E-11	4.17E-11	5.01E-14	5.40E-11
2070	420111	3734568	1.44E-10	6.61E-10	1.44E-12	8.06E-10	1.98E-11	9.03E-11	2.15E-13	1.10E-10	1.22E-11	4.15E-11	4.99E-14	5.37E-11
2071	420100.8	3734532	1.40E-10	6.39E-10	1.40E-12	7.81E-10	1.92E-11	8.74E-11	2.08E-13	1.07E-10	1.18E-11	4.02E-11	4.83E-14	5.20E-11
2072	420098.2	3734522	1.38E-10	6.29E-10	1.37E-12	7.68E-10	1.89E-11	8.60E-11	2.05E-13	1.05E-10	1.16E-11	3.95E-11	4.75E-14	5.11E-11
2073	420095.6	3734513	1.37E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.54E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.72E-14	5.08E-11
2074	420093.1	3734504	1.36E-10	6.22E-10	1.36E-12	7.59E-10	1.86E-11	8.50E-11	2.02E-13	1.04E-10	1.14E-11	3.91E-11	4.70E-14	5.06E-11
2075	420090.5	3734495	1.36E-10	6.20E-10	1.36E-12	7.57E-10	1.86E-11	8.48E-11	2.02E-13	1.04E-10	1.14E-11	3.90E-11	4.69E-14	5.04E-11
2076	420088	3734486	1.35E-10	6.18E-10	1.35E-12	7.55E-10	1.85E-11	8.46E-11	2.01E-13	1.03E-10	1.14E-11	3.89E-11	4.67E-14	5.03E-11
2077	420085.4	3734476	1.35E-10	6.17E-10	1.35E-12	7.53E-10	1.85E-11	8.43E-11	2.01E-13	1.03E-10	1.13E-11	3.88E-11	4.66E-14	5.02E-11
2078	420082.9	3734467	1.35E-10	6.15E-10	1.35E-12	7.51E-10	1.85E-11	8.42E-11	2.00E-13	1.03E-10	1.13E-11	3.87E-11	4.65E-14	5.01E-11
2079	420075.2	3734439	1.35E-10	6.19E-10	1.35E-12	7.56E-10	1.86E-11	8.46E-11	2.02E-13	1.03E-10	1.14E-11	3.89E-11	4.68E-14	5.03E-11
2080	420072.7	3734430	1.36E-10	6.22E-10	1.36E-12	7.60E-10	1.87E-11	8.51E-11	2.03E-13	1.04E-10	1.14E-11	3.91E-11	4.70E-14	5.06E-11
2081	420070.1	3734421	1.36E-10	6.21E-10	1.36E-12	7.58E-10	1.86E-11	8.49E-11	2.02E-13	1.04E-10	1.14E-11	3.90E-11	4.69E-14	5.05E-11
2082	420067.6	3734412	1.35E-10	6.18E-10	1.35E-12	7.55E-10	1.85E-11	8.45E-11	2.01E-13	1.03E-10	1.14E-11	3.88E-11	4.67E-14	5.03E-11
2083	420353.9	3734897	2.31E-10	1.05E-09	2.31E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.63E-11	7.97E-14	8.58E-11
2084	420362.3	3734902	2.34E-10	1.07E-09	2.34E-12	1.30E-09	3.20E-11	1.46E-10	3.48E-13	1.79E-10	1.97E-11	6.72E-11	8.08E-14	8.69E-11
2085	420370.6	3734907	2.37E-10	1.08E-09	2.37E-12	1.32E-09	3.25E-11	1.48E-10	3.53E-13	1.81E-10	1.99E-11	6.81E-11	8.19E-14	8.82E-11
2086	420378.9	3734912	2.40E-10	1.10E-09	2.40E-12	1.34E-09	3.30E-11	1.50E-10	3.58E-13	1.84E-10	2.02E-11	6.91E-11	8.31E-14	8.94E-11
2087	420387.3	3734917	2.44E-10	1.11E-09	2.44E-12	1.36E-09	3.34E-11	1.52E-10	3.63E-13	1.86E-10	2.05E-11	7.00E-11	8.42E-14	9.06E-11
2088	420313.5	3734911	1.97E-10	9.03E-10	1.97E-12	1.10E-09	2.71E-11	1.23E-10	2.94E-13	1.51E-10	1.66E-11	5.67E-11	6.82E-14	7.34E-11
2089	420306.7	3734905	1.96E-10	8.96E-10	1.96E-12	1.09E-09	2.69E-11	1.23E-10	2.92E-13	1.50E-10	1.65E-11	5.63E-11	6.78E-14	7.29E-11
2090	420299.9	3734898	1.95E-10	8.90E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.59E-11	6.73E-14	7.24E-11
2091	420293.1	3734891	1.93E-10	8.83E-10	1.93E-12	1.08E-09	2.65E-11	1.21E-10	2.87E-13	1.47E-10	1.62E-11	5.55E-11	6.67E-14	7.18E-11
2092	420286.3	3734884	1.91E-10	8.75E-10	1.91E-12	1.07E-09	2.62E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.50E-11	6.61E-14	7.11E-11
2093	420279.5	3734878	1.89E-10	8.66E-10	1.89E-12	1.06E-09	2.60E-11	1.18E-10	2.82E-13	1.45E-10	1.59E-11	5.44E-11	6.55E-14	7.04E-11
2094	420272.7	3734871	1.88E-10	8.57E-10	1.87E-12	1.05E-09	2.57E-11	1.17E-10	2.79E-13	1.43E-10	1.58E-11	5.39E-11	6.48E-14	6.97E-11
2095	420265.9	3734864	1.85E-10	8.48E-10	1.85E-12	1.03E-09	2.54E-11	1.16E-10	2.76E-13	1.42E-10	1.56E-11	5.33E-11	6.41E-14	6.89E-11
2096	420259.1	3734857	1.83E-10	8.38E-10	1.83E-12	1.02E-09	2.51E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.26E-11	6.33E-14	6.81E-11
2097	420252.3	3734851	1.81E-10	8.27E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.20E-11	6.25E-14	6.72E-11
2098	420231.9	3734830	1.74E-10	7.94E-10	1.74E-12	9.70E-10	2.38E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	4.99E-11	6.00E-14	6.46E-11
2099	420225.1	3734823	1.71E-10	7.83E-10	1.71E-12	9.56E-10	2.35E-11	1.07E-10	2.55E-13	1.31E-10	1.44E-11	4.92E-11	5.92E-14	6.37E-11
2100	420218.3	3734817	1.69E-10	7.72E-10	1.69E-12	9.43E-10	2.32E-11	1.06E-10	2.51E-13	1.29E-10	1.42E-11	4.85E-11	5.84E-14	6.28E-11
2101	420211.5	3734810	1.66E-10	7.61E-10	1.66E-12	9.29E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.78E-11	5.75E-14	6.19E-11
2102	420204.7	3734803	1.64E-10	7.49E-10	1.64E-12	9.15E-10	2.25E-11	1.02E-10	2.44E-13	1.25E-10	1.38E-11	4.71E-11	5.66E-14	6.09E-11
2103	420197.9	3734796	1.61E-10	7.38E-10	1.61E-12	9.01E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.64E-11	5.58E-14	6.00E-11
2104	420191.1	3734790	1.59E-10	7.27E-10	1.59E-12	8.87E-10	2.18E-11	9.94E-11	2.37E-13	1.21E-10	1.34E-11	4.57E-11	5.49E-14	5.91E-11
2105	420184.4	3734783	1.56E-10	7.15E-10	1.56E-12	8.73E-10	2.14E-11	9.78E-11	2.33E-13	1.19E-10	1.32E-11	4.49E-11	5.40E-14	5.82E-11
2106	420177.6	3734776	1.54E-10	7.04E-10	1.54E-12	8.59E-10	2.11E-11	9.62E-11	2.29E-13	1.18E-10	1.30E-11	4.42E-11	5.32E-14	5.72E-11
2107	420170.8	3734769	1.51E-10	6.92E-10	1.51E-12	8.45E-10	2.07E-11	9.46E-11	2.25E-13	1.16E-10	1.27E-11	4.35E-11	5.23E-14	5.63E-11
2108	420164	3734762	1.49E-10	6.81E-10	1.49E-12	8.31E-10	2.04E-11	9.31E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
2109	420130	3734729	1.37E-10	6.27E-10	1.37E-12	7.66E-10	1.88E-11	8.58E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.74E-14	5.10E-11
2110	420123.2	3734722	1.35E-10	6.17E-10	1.35E-12	7.53E-10	1.85E-11	8.43E-11	2.01E-13	1.03E-10	1.13E-11	3.88E-11	4.66E-14	5.02E-11
2111	420116.4	3734715	1.33E-10	6.07E-10	1.33E-12	7.41E-10	1.82E-11	8.29E-11	1.97E-13	1.01E-10	1.12E-11	3.81E-11	4.58E-14	4.93E-11
2112	420107.1	3734699	1.30E-10	5.94E-10	1.30E-12	7.25E-10	1.78E-11	8.12E-11	1.93E-13	9.92E-11	1.09E-11	3.73E-11	4.49E-14	4.83E-11
2113	420104.5	3734690	1.30E-10	5.95E-10	1.30E-12	7.27E-10	1.78E-11	8.14E-11	1.94E-13	9.94E-11	1.09E-11	3.74E-11	4.50E-14	4.84E-11

2114	420101.9	3734681	1.30E-10	5.94E-10	1.30E-12	7.26E-10	1.78E-11	8.13E-11	1.93E-13	9.93E-11	1.09E-11	3.73E-11	4.49E-14	4.83E-11
2115	420099.4	3734671	1.30E-10	5.93E-10	1.30E-12	7.24E-10	1.78E-11	8.11E-11	1.93E-13	9.91E-11	1.09E-11	3.73E-11	4.48E-14	4.82E-11
2116	420096.8	3734662	1.30E-10	5.92E-10	1.29E-12	7.23E-10	1.78E-11	8.10E-11	1.93E-13	9.89E-11	1.09E-11	3.72E-11	4.48E-14	4.82E-11
2117	420094.2	3734653	1.29E-10	5.91E-10	1.29E-12	7.21E-10	1.77E-11	8.08E-11	1.92E-13	9.87E-11	1.09E-11	3.71E-11	4.46E-14	4.80E-11
2118	420091.7	3734644	1.29E-10	5.89E-10	1.29E-12	7.20E-10	1.77E-11	8.06E-11	1.92E-13	9.85E-11	1.08E-11	3.70E-11	4.45E-14	4.79E-11
2119	420089.1	3734634	1.29E-10	5.88E-10	1.29E-12	7.18E-10	1.76E-11	8.04E-11	1.91E-13	9.82E-11	1.08E-11	3.69E-11	4.44E-14	4.78E-11
2120	420086.5	3734625	1.28E-10	5.86E-10	1.28E-12	7.15E-10	1.76E-11	8.01E-11	1.91E-13	9.78E-11	1.08E-11	3.68E-11	4.43E-14	4.76E-11
2121	420084	3734616	1.28E-10	5.84E-10	1.28E-12	7.13E-10	1.75E-11	7.98E-11	1.90E-13	9.75E-11	1.07E-11	3.67E-11	4.41E-14	4.75E-11
2122	420081.4	3734607	1.27E-10	5.82E-10	1.27E-12	7.10E-10	1.74E-11	7.95E-11	1.89E-13	9.72E-11	1.07E-11	3.66E-11	4.40E-14	4.73E-11
2123	420078.8	3734597	1.27E-10	5.80E-10	1.27E-12	7.08E-10	1.74E-11	7.93E-11	1.89E-13	9.68E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
2124	420076.3	3734588	1.26E-10	5.78E-10	1.26E-12	7.05E-10	1.73E-11	7.90E-11	1.88E-13	9.65E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
2125	420073.7	3734579	1.26E-10	5.75E-10	1.26E-12	7.03E-10	1.73E-11	7.87E-11	1.87E-13	9.61E-11	1.06E-11	3.62E-11	4.35E-14	4.68E-11
2126	420071.2	3734570	1.25E-10	5.73E-10	1.25E-12	6.99E-10	1.72E-11	7.83E-11	1.86E-13	9.57E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
2127	420060.9	3734533	1.20E-10	5.50E-10	1.20E-12	6.72E-10	1.65E-11	7.53E-11	1.79E-13	9.20E-11	1.01E-11	3.46E-11	4.16E-14	4.48E-11
2128	420058.3	3734523	1.19E-10	5.44E-10	1.19E-12	6.64E-10	1.63E-11	7.44E-11	1.77E-13	9.08E-11	1.00E-11	3.42E-11	4.11E-14	4.42E-11
2129	420055.8	3734514	1.18E-10	5.40E-10	1.18E-12	6.59E-10	1.62E-11	7.38E-11	1.76E-13	9.02E-11	9.93E-12	3.39E-11	4.08E-14	4.39E-11
2130	420053.2	3734505	1.17E-10	5.37E-10	1.17E-12	6.56E-10	1.61E-11	7.34E-11	1.75E-13	8.97E-11	9.88E-12	3.38E-11	4.06E-14	4.37E-11
2131	420050.6	3734496	1.17E-10	5.35E-10	1.17E-12	6.53E-10	1.60E-11	7.31E-11	1.74E-13	8.93E-11	9.84E-12	3.36E-11	4.04E-14	4.35E-11
2132	420048.1	3734486	1.17E-10	5.33E-10	1.16E-12	6.50E-10	1.60E-11	7.29E-11	1.73E-13	8.90E-11	9.80E-12	3.35E-11	4.03E-14	4.33E-11
2133	420045.5	3734477	1.16E-10	5.33E-10	1.16E-12	6.50E-10	1.60E-11	7.28E-11	1.73E-13	8.90E-11	9.80E-12	3.35E-11	4.02E-14	4.33E-11
2134	420043	3734468	1.16E-10	5.32E-10	1.16E-12	6.49E-10	1.60E-11	7.27E-11	1.73E-13	8.89E-11	9.79E-12	3.34E-11	4.02E-14	4.33E-11
2135	420035.3	3734440	1.17E-10	5.35E-10	1.17E-12	6.54E-10	1.61E-11	7.32E-11	1.74E-13	8.94E-11	9.85E-12	3.37E-11	4.05E-14	4.35E-11
2136	420032.7	3734431	1.18E-10	5.37E-10	1.17E-12	6.56E-10	1.61E-11	7.35E-11	1.75E-13	8.98E-11	9.89E-12	3.38E-11	4.06E-14	4.37E-11
2137	420030.1	3734422	1.18E-10	5.39E-10	1.18E-12	6.58E-10	1.62E-11	7.37E-11	1.75E-13	9.00E-11	9.92E-12	3.39E-11	4.07E-14	4.38E-11
2138	420027.6	3734412	1.18E-10	5.40E-10	1.18E-12	6.60E-10	1.62E-11	7.39E-11	1.76E-13	9.03E-11	9.94E-12	3.40E-11	4.08E-14	4.39E-11
2139	420306.9	3734960	1.73E-10	7.93E-10	1.73E-12	9.68E-10	2.38E-11	1.08E-10	2.58E-13	1.32E-10	1.46E-11	4.98E-11	5.99E-14	6.45E-11
2140	420300.1	3734953	1.73E-10	7.90E-10	1.73E-12	9.64E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.97E-14	6.42E-11
2141	420293.3	3734946	1.72E-10	7.86E-10	1.72E-12	9.59E-10	2.36E-11	1.07E-10	2.56E-13	1.31E-10	1.45E-11	4.94E-11	5.94E-14	6.39E-11
2142	420286.5	3734939	1.71E-10	7.81E-10	1.71E-12	9.54E-10	2.34E-11	1.07E-10	2.54E-13	1.31E-10	1.44E-11	4.91E-11	5.91E-14	6.35E-11
2143	420279.7	3734932	1.70E-10	7.75E-10	1.70E-12	9.47E-10	2.32E-11	1.06E-10	2.52E-13	1.30E-10	1.43E-11	4.87E-11	5.86E-14	6.31E-11
2144	420272.8	3734926	1.68E-10	7.69E-10	1.68E-12	9.39E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
2145	420266	3734919	1.67E-10	7.62E-10	1.67E-12	9.31E-10	2.29E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.20E-11
2146	420259.2	3734912	1.65E-10	7.56E-10	1.65E-12	9.23E-10	2.27E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.75E-11	5.71E-14	6.15E-11
2147	420252.4	3734905	1.64E-10	7.49E-10	1.64E-12	9.15E-10	2.25E-11	1.02E-10	2.44E-13	1.25E-10	1.38E-11	4.71E-11	5.66E-14	6.09E-11
2148	420197.8	3734851	1.49E-10	6.82E-10	1.49E-12	8.33E-10	2.04E-11	9.33E-11	2.22E-13	1.14E-10	1.25E-11	4.29E-11	5.15E-14	5.55E-11
2149	420191	3734844	1.47E-10	6.74E-10	1.47E-12	8.23E-10	2.02E-11	9.22E-11	2.20E-13	1.13E-10	1.24E-11	4.24E-11	5.10E-14	5.48E-11
2150	420184.2	3734837	1.46E-10	6.66E-10	1.46E-12	8.13E-10	2.00E-11	9.11E-11	2.17E-13	1.11E-10	1.23E-11	4.19E-11	5.04E-14	5.42E-11
2151	420177.4	3734830	1.44E-10	6.57E-10	1.44E-12	8.02E-10	1.97E-11	8.98E-11	2.14E-13	1.10E-10	1.21E-11	4.13E-11	4.96E-14	5.34E-11
2152	420170.6	3734824	1.42E-10	6.47E-10	1.42E-12	7.90E-10	1.94E-11	8.85E-11	2.11E-13	1.08E-10	1.19E-11	4.07E-11	4.89E-14	5.26E-11
2153	420163.7	3734817	1.40E-10	6.38E-10	1.39E-12	7.79E-10	1.91E-11	8.72E-11	2.08E-13	1.07E-10	1.17E-11	4.01E-11	4.82E-14	5.19E-11
2154	420156.9	3734810	1.38E-10	6.29E-10	1.37E-12	7.68E-10	1.89E-11	8.60E-11	2.05E-13	1.05E-10	1.16E-11	3.95E-11	4.75E-14	5.11E-11
2155	420150.1	3734803	1.35E-10	6.19E-10	1.35E-12	7.56E-10	1.86E-11	8.47E-11	2.02E-13	1.03E-10	1.14E-11	3.89E-11	4.68E-14	5.04E-11
2156	420143.3	3734796	1.34E-10	6.11E-10	1.33E-12	7.46E-10	1.83E-11	8.35E-11	1.99E-13	1.02E-10	1.12E-11	3.84E-11	4.62E-14	4.97E-11
2157	420136.5	3734790	1.32E-10	6.01E-10	1.31E-12	7.34E-10	1.80E-11	8.23E-11	1.96E-13	1.00E-10	1.11E-11	3.78E-11	4.55E-14	4.89E-11
2158	420116	3734769	1.26E-10	5.75E-10	1.26E-12	7.02E-10	1.72E-11	7.86E-11	1.87E-13	9.60E-11	1.06E-11	3.61E-11	4.34E-14	4.67E-11
2159	420109.2	3734762	1.24E-10	5.66E-10	1.24E-12	6.91E-10	1.70E-11	7.74E-11	1.84E-13	9.46E-11	1.04E-11	3.56E-11	4.28E-14	4.60E-11
2160	420102.4	3734756	1.22E-10	5.57E-10	1.22E-12	6.81E-10	1.67E-11	7.62E-11	1.82E-13	9.31E-11	1.03E-11	3.50E-11	4.21E-14	4.53E-11
2161	420072.5	3734719	1.13E-10	5.18E-10	1.13E-12	6.32E-10	1.55E-11	7.08E-11	1.69E-13	8.65E-11	9.53E-12	3.25E-11	3.91E-14	4.21E-11
2162	420069.9	3734710	1.13E-10	5.16E-10	1.13E-12	6.30E-10	1.55E-11	7.05E-11	1.68E-13	8.62E-11	9.49E-12	3.24E-11	3.90E-14	4.20E-11
2163	420067.4	3734701	1.12E-10	5.13E-10	1.12E-12	6.27E-10	1.54E-11	7.02E-11	1.67E-13	8.58E-11	9.45E-12	3.23E-11	3.88E-14	4.18E-11
2164	420064.8	3734691	1.12E-10	5.14E-10	1.12E-12	6.28E-10	1.54E-11	7.03E-11	1.67E-13	8.59E-11	9.46E-12	3.23E-11	3.89E-14	4.18E-11
2165	420062.2	3734682	1.13E-10	5.15E-10	1.13E-12	6.29E-10	1.55E-11	7.05E-11	1.68E-13	8.61E-11	9.48E-12	3.24E-11	3.89E-14	4.19E-11
2166	420059.6	3734673	1.13E-10	5.16E-10	1.13E-12	6.30E-10	1.55E-11	7.06E-11	1.68E-13	8.63E-11	9.50E-12	3.25E-11	3.90E-14	4.20E-11
2167	420057.1	3734663	1.13E-10	5.18E-10	1.13E-12	6.33E-10	1.55E-11	7.09E-11	1.69E-13	8.66E-11	9.54E-12	3.26E-11	3.92E-14	4.22E-11
2168	420054.5	3734654	1.13E-10	5.17E-10	1.13E-12	6.31E-10	1.55E-11	7.07E-11	1.68E-13	8.64E-11	9.51E-12	3.25E-11	3.91E-14	4.20E-11
2169	420051.9	3734645	1.13E-10	5.16E-10	1.13E-12	6.30E-10	1.55E-11	7.05E-11	1.68E-13	8.62E-11	9.49E-12	3.24E-11	3.90E-14	4.20E-11
2170	420049.3	3734636	1.13E-10	5.15E-10	1.12E-12	6.28E-10	1.54E-11	7.04E-11	1.68E-13	8.60E-11	9.47E-12	3.23E-11	3.89E-14	4.18E-11
2171	420046.8	3734626	1.12E-10	5.13E-10	1.12E-12	6.26E-10	1.54E-11	7.01E-11	1.67E-13	8.57E-11	9.44E-12	3.22E-11	3.88E-14	4.17E-11
2172	420044.2	3734617	1.12E-10	5.11E-10	1.12E-12	6.24E-10	1.53E-11	6.99E-11	1.66E-13	8.54E-11	9.41E-12	3.21E-11	3.86E-14	4.16E-11
2173	420041.6	3734608	1.11E-10	5.09E-10	1.11E-12	6.22E-10	1.53E-11	6.97E-11	1.66E-13	8.51E-11	9.37E-12	3.20E-11	3.85E-14	4.14E-11
2174	420039.1	3734599	1.11E-10	5.08E-10	1.11E-12	6.20E-10	1.52E-11	6.94E-11	1.65E-13	8.48E-11	9.34E-12	3.19E-11	3.84E-14	4.13E-11
2175	420036.5	3734589	1.11E-10	5.06E-10	1.11E-12	6.17E-10	1.52E-11	6.91E-11	1.65E-13	8.45E-11	9.30E-12	3.18E-11	3.82E-14	4.11E-11
2176	420033.9	3734580	1.10E-10	5.04E-10	1.10E-12	6.15E-10	1.51E-11	6.89E-11	1.64E-13	8.42E-11	9.27E-12	3.17E-11	3.81E-14	4.10E-11
2177	420031.3	3734571	1.10E-10	5.02E-10	1.10E-12	6.13E-10	1.50E-11	6.86E-11	1.63E-13	8.38E-11	9.24E-12	3.15E-11	3.79E-14	4.08E-11
2178	420021	3734534	1.06E-10	4.85E-10	1.06E-12	5.92E-10	1.45E-11	6.64E-11	1.58E-13	8.11E-11	8.93E-12	3.05E-11	3.67E-14	3.95E-11
2179	420018.5	3734524	1.05E-10	4.80E-10	1.05E-12	5.86E-10	1.44E-11	6.57E-11	1.56E-13	8.02E-11	8.84E-12	3.02E-11	3.63E-14	3.91E-11
2180	420015.9	3734515	1.04E-10	4.77E-10	1.04E-12	5.82E-10	1.43E-11	6.52E-11	1.55E-13	7.96E-11	8.77E-12	3.00E-11	3.60E-14	3.88E-11
2181	420013.3	3734506	1.04E-10	4.75E-10	1.04E-12	5.80E-10	1.42E-11	6.49E-11	1.55E-13	7.93E-11	8.74E-12	2.98E-11	3.59E-14	3.86E-11
2182	420010.7	3734496	1.03E-10	4.73E-10	1.03E-12	5.77E-10	1.42E-11	6.47E-11	1.54E-13	7.90E-11	8.70E-12	2.97E-11	3.57E-14	3.85E-11
2183	420008.2	3734487	1.03E-10	4.72E-10	1.03E-12	5.76E-10	1.41E-11	6.45E-11	1.54E-13	7.88E-11	8.68E-12	2.96E-11	3.56E-14	3.84E-11
2184	420005.6	3734478	1.03E-10	4.71E-10	1.03E-12	5.75E-10	1.41E-11	6.44E-11	1.53E-13	7.86E-11	8.66E-12	2.96E-11	3.56E-14	3.83E-11
2185	420003	3734469	1.03E-10	4.70E-10	1.03E-12	5.74E-10	1.41E-11	6.43E-11	1.53E-13	7.85E-11	8.65E-12	2.95E-11	3.55E-14	3.82E-11
2186	419995.3	3734441	1.04E-10	4.75E-10	1.04E-12	5.80E-10	1.42E-11	6.50E-11	1.55E-13	7.94E-11	8.74E-12	2.99E-11	3.59E-14	3.86E-11

2187	419992.7	3734431	1.05E-10	4.78E-10	1.05E-12	5.84E-10	1.43E-11	6.54E-11	1.56E-13	7.99E-11	8.80E-12	3.01E-11	3.62E-14	3.89E-11
2188	419990.2	3734422	1.05E-10	4.79E-10	1.05E-12	5.84E-10	1.43E-11	6.54E-11	1.56E-13	7.99E-11	8.81E-12	3.01E-11	3.62E-14	3.89E-11
2189	419987.6	3734413	1.04E-10	4.77E-10	1.04E-12	5.83E-10	1.43E-11	6.53E-11	1.55E-13	7.97E-11	8.78E-12	3.00E-11	3.61E-14	3.88E-11
2190	420313.8	3734966	1.74E-10	7.96E-10	1.74E-12	9.72E-10	2.39E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	5.00E-11	6.02E-14	6.47E-11
2191	420322.1	3734971	1.76E-10	8.05E-10	1.76E-12	9.83E-10	2.42E-11	1.10E-10	2.62E-13	1.35E-10	1.48E-11	5.06E-11	6.09E-14	6.55E-11
2192	420330.4	3734976	1.78E-10	8.15E-10	1.78E-12	9.95E-10	2.44E-11	1.11E-10	2.65E-13	1.36E-10	1.50E-11	5.12E-11	6.16E-14	6.63E-11
2193	420338.8	3734981	1.80E-10	8.24E-10	1.80E-12	1.01E-09	2.47E-11	1.13E-10	2.68E-13	1.38E-10	1.52E-11	5.18E-11	6.23E-14	6.70E-11
2194	420347.1	3734986	1.82E-10	8.33E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.23E-11	6.29E-14	6.77E-11
2195	420287	3734994	1.52E-10	6.93E-10	1.52E-12	8.46E-10	2.08E-11	9.48E-11	2.26E-13	1.16E-10	1.28E-11	4.36E-11	5.24E-14	5.64E-11
2196	420280.4	3734988	1.51E-10	6.91E-10	1.51E-12	8.44E-10	2.07E-11	9.45E-11	2.25E-13	1.15E-10	1.27E-11	4.34E-11	5.22E-14	5.62E-11
2197	420273.7	3734981	1.51E-10	6.88E-10	1.50E-12	8.40E-10	2.06E-11	9.41E-11	2.24E-13	1.15E-10	1.27E-11	4.33E-11	5.20E-14	5.60E-11
2198	420267	3734974	1.50E-10	6.85E-10	1.50E-12	8.36E-10	2.05E-11	9.36E-11	2.23E-13	1.14E-10	1.26E-11	4.30E-11	5.18E-14	5.57E-11
2199	420260.4	3734968	1.49E-10	6.81E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
2200	420253.7	3734961	1.48E-10	6.77E-10	1.48E-12	8.27E-10	2.03E-11	9.26E-11	2.21E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
2201	420247.1	3734955	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.21E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.48E-11
2202	420240.4	3734948	1.46E-10	6.69E-10	1.46E-12	8.17E-10	2.01E-11	9.15E-11	2.18E-13	1.12E-10	1.23E-11	4.20E-11	5.06E-14	5.44E-11
2203	420233.7	3734941	1.45E-10	6.64E-10	1.45E-12	8.11E-10	1.99E-11	9.08E-11	2.16E-13	1.11E-10	1.22E-11	4.17E-11	5.02E-14	5.40E-11
2204	420227.1	3734935	1.44E-10	6.59E-10	1.44E-12	8.04E-10	1.97E-11	9.01E-11	2.14E-13	1.10E-10	1.21E-11	4.14E-11	4.98E-14	5.36E-11
2205	420220.4	3734928	1.43E-10	6.53E-10	1.43E-12	7.97E-10	1.96E-11	8.93E-11	2.13E-13	1.09E-10	1.20E-11	4.10E-11	4.94E-14	5.31E-11
2206	420213.7	3734921	1.41E-10	6.47E-10	1.41E-12	7.90E-10	1.94E-11	8.85E-11	2.11E-13	1.08E-10	1.19E-11	4.07E-11	4.89E-14	5.26E-11
2207	420207.1	3734915	1.40E-10	6.41E-10	1.40E-12	7.82E-10	1.92E-11	8.76E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.84E-14	5.21E-11
2208	420200.4	3734908	1.39E-10	6.34E-10	1.39E-12	7.74E-10	1.90E-11	8.67E-11	2.06E-13	1.06E-10	1.17E-11	3.98E-11	4.79E-14	5.16E-11
2209	420193.8	3734901	1.37E-10	6.27E-10	1.37E-12	7.65E-10	1.88E-11	8.57E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.74E-14	5.10E-11
2210	420187.1	3734895	1.36E-10	6.20E-10	1.35E-12	7.57E-10	1.86E-11	8.47E-11	2.02E-13	1.04E-10	1.14E-11	3.89E-11	4.68E-14	5.04E-11
2211	420180.4	3734888	1.34E-10	6.13E-10	1.34E-12	7.48E-10	1.84E-11	8.38E-11	2.00E-13	1.02E-10	1.13E-11	3.85E-11	4.63E-14	4.99E-11
2212	420173.8	3734881	1.33E-10	6.07E-10	1.33E-12	7.41E-10	1.82E-11	8.30E-11	1.98E-13	1.01E-10	1.12E-11	3.81E-11	4.59E-14	4.94E-11
2213	420167.1	3734875	1.31E-10	6.00E-10	1.31E-12	7.33E-10	1.80E-11	8.21E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.54E-14	4.88E-11
2214	420160.5	3734868	1.30E-10	5.93E-10	1.30E-12	7.24E-10	1.78E-11	8.10E-11	1.93E-13	9.90E-11	1.09E-11	3.72E-11	4.48E-14	4.82E-11
2215	420153.8	3734862	1.28E-10	5.85E-10	1.28E-12	7.14E-10	1.75E-11	8.00E-11	1.90E-13	9.77E-11	1.08E-11	3.68E-11	4.42E-14	4.76E-11
2216	420147.1	3734855	1.26E-10	5.78E-10	1.26E-12	7.06E-10	1.73E-11	7.90E-11	1.88E-13	9.65E-11	1.06E-11	3.63E-11	4.37E-14	4.70E-11
2217	420140.5	3734848	1.25E-10	5.71E-10	1.25E-12	6.97E-10	1.71E-11	7.80E-11	1.86E-13	9.53E-11	1.05E-11	3.59E-11	4.31E-14	4.64E-11
2218	420093.8	3734802	1.14E-10	5.19E-10	1.14E-12	6.34E-10	1.56E-11	7.10E-11	1.69E-13	8.68E-11	9.56E-12	3.26E-11	3.93E-14	4.22E-11
2219	420087.2	3734795	1.12E-10	5.12E-10	1.12E-12	6.25E-10	1.54E-11	7.00E-11	1.67E-13	8.55E-11	9.42E-12	3.22E-11	3.87E-14	4.16E-11
2220	420080.5	3734788	1.10E-10	5.05E-10	1.10E-12	6.17E-10	1.51E-11	6.91E-11	1.64E-13	8.44E-11	9.30E-12	3.17E-11	3.82E-14	4.11E-11
2221	420073.8	3734782	1.09E-10	4.98E-10	1.09E-12	6.08E-10	1.49E-11	6.81E-11	1.62E-13	8.32E-11	9.17E-12	3.13E-11	3.77E-14	4.05E-11
2222	420067.2	3734775	1.07E-10	4.91E-10	1.07E-12	6.00E-10	1.47E-11	6.72E-11	1.60E-13	8.21E-11	9.04E-12	3.09E-11	3.71E-14	4.00E-11
2223	420060.5	3734769	1.06E-10	4.84E-10	1.06E-12	5.91E-10	1.45E-11	6.62E-11	1.58E-13	8.09E-11	8.91E-12	3.04E-11	3.66E-14	3.94E-11
2224	420053.9	3734762	1.04E-10	4.77E-10	1.04E-12	5.83E-10	1.43E-11	6.53E-11	1.55E-13	7.98E-11	8.79E-12	3.00E-11	3.61E-14	3.88E-11
2225	420047.2	3734755	1.03E-10	4.71E-10	1.03E-12	5.75E-10	1.41E-11	6.44E-11	1.53E-13	7.86E-11	8.66E-12	2.96E-11	3.56E-14	3.83E-11
2226	420035.5	3734730	1.00E-10	4.59E-10	1.00E-12	5.61E-10	1.38E-11	6.28E-11	1.50E-13	7.67E-11	8.45E-12	2.89E-11	3.47E-14	3.73E-11
2227	420033	3734721	1.00E-10	4.57E-10	1.00E-12	5.58E-10	1.37E-11	6.25E-11	1.49E-13	7.64E-11	8.42E-12	2.87E-11	3.46E-14	3.72E-11
2228	420030.5	3734712	9.97E-11	4.56E-10	9.96E-13	5.56E-10	1.37E-11	6.23E-11	1.48E-13	7.61E-11	8.39E-12	2.86E-11	3.44E-14	3.71E-11
2229	420028	3734703	9.93E-11	4.54E-10	9.92E-13	5.54E-10	1.36E-11	6.21E-11	1.48E-13	7.58E-11	8.35E-12	2.85E-11	3.43E-14	3.69E-11
2230	420025.5	3734694	9.92E-11	4.53E-10	9.91E-13	5.53E-10	1.36E-11	6.20E-11	1.48E-13	7.57E-11	8.34E-12	2.85E-11	3.43E-14	3.69E-11
2231	420022.9	3734685	9.92E-11	4.53E-10	9.91E-13	5.53E-10	1.36E-11	6.20E-11	1.48E-13	7.57E-11	8.34E-12	2.85E-11	3.43E-14	3.69E-11
2232	420020.4	3734676	9.92E-11	4.53E-10	9.91E-13	5.53E-10	1.36E-11	6.20E-11	1.48E-13	7.57E-11	8.34E-12	2.85E-11	3.43E-14	3.69E-11
2233	420017.9	3734667	9.93E-11	4.54E-10	9.92E-13	5.54E-10	1.36E-11	6.21E-11	1.48E-13	7.58E-11	8.35E-12	2.85E-11	3.43E-14	3.69E-11
2234	420015.4	3734658	9.97E-11	4.56E-10	9.96E-13	5.56E-10	1.37E-11	6.23E-11	1.48E-13	7.61E-11	8.39E-12	2.86E-11	3.44E-14	3.71E-11
2235	420012.9	3734649	9.97E-11	4.56E-10	9.96E-13	5.56E-10	1.37E-11	6.23E-11	1.48E-13	7.61E-11	8.39E-12	2.86E-11	3.44E-14	3.71E-11
2236	420010.4	3734640	9.94E-11	4.55E-10	9.94E-13	5.55E-10	1.36E-11	6.22E-11	1.48E-13	7.60E-11	8.37E-12	2.86E-11	3.44E-14	3.70E-11
2237	420007.9	3734631	9.92E-11	4.53E-10	9.91E-13	5.53E-10	1.36E-11	6.20E-11	1.48E-13	7.57E-11	8.34E-12	2.85E-11	3.43E-14	3.69E-11
2238	420005.3	3734622	9.89E-11	4.52E-10	9.88E-13	5.52E-10	1.36E-11	6.18E-11	1.47E-13	7.55E-11	8.32E-12	2.84E-11	3.42E-14	3.68E-11
2239	420002.8	3734613	9.86E-11	4.51E-10	9.85E-13	5.50E-10	1.35E-11	6.16E-11	1.47E-13	7.53E-11	8.29E-12	2.83E-11	3.41E-14	3.66E-11
2240	420000.3	3734604	9.83E-11	4.49E-10	9.82E-13	5.49E-10	1.35E-11	6.14E-11	1.46E-13	7.51E-11	8.27E-12	2.82E-11	3.40E-14	3.65E-11
2241	419997.8	3734594	9.79E-11	4.48E-10	9.79E-13	5.47E-10	1.34E-11	6.12E-11	1.46E-13	7.48E-11	8.24E-12	2.81E-11	3.38E-14	3.64E-11
2242	419995.3	3734585	9.76E-11	4.46E-10	9.76E-13	5.45E-10	1.34E-11	6.10E-11	1.45E-13	7.46E-11	8.21E-12	2.81E-11	3.37E-14	3.63E-11
2243	419992.8	3734576	9.73E-11	4.45E-10	9.72E-13	5.43E-10	1.33E-11	6.08E-11	1.45E-13	7.43E-11	8.18E-12	2.80E-11	3.36E-14	3.62E-11
2244	419990.3	3734567	9.70E-11	4.43E-10	9.69E-13	5.41E-10	1.33E-11	6.06E-11	1.44E-13	7.41E-11	8.16E-12	2.79E-11	3.35E-14	3.61E-11
2245	419982.7	3734540	9.61E-11	4.39E-10	9.61E-13	5.36E-10	1.32E-11	6.01E-11	1.43E-13	7.34E-11	8.09E-12	2.76E-11	3.32E-14	3.57E-11
2246	419980.2	3734531	9.58E-11	4.38E-10	9.58E-13	5.35E-10	1.31E-11	5.99E-11	1.43E-13	7.32E-11	8.06E-12	2.75E-11	3.31E-14	3.56E-11
2247	419977.7	3734522	9.56E-11	4.37E-10	9.56E-13	5.34E-10	1.31E-11	5.98E-11	1.42E-13	7.30E-11	8.05E-12	2.75E-11	3.30E-14	3.56E-11
2248	419975.2	3734513	9.54E-11	4.36E-10	9.53E-13	5.33E-10	1.31E-11	5.96E-11	1.42E-13	7.29E-11	8.03E-12	2.74E-11	3.30E-14	3.55E-11
2249	419972.7	3734504	9.47E-11	4.33E-10	9.47E-13	5.29E-10	1.30E-11	5.92E-11	1.41E-13	7.24E-11	7.97E-12	2.72E-11	3.27E-14	3.52E-11
2250	419970.2	3734495	9.41E-11	4.30E-10	9.41E-13	5.25E-10	1.29E-11	5.88E-11	1.40E-13	7.19E-11	7.92E-12	2.70E-11	3.25E-14	3.50E-11
2251	419967.6	3734486	9.38E-11	4.29E-10	9.37E-13	5.23E-10	1.29E-11	5.86E-11	1.40E-13	7.16E-11	7.89E-12	2.69E-11	3.24E-14	3.49E-11
2252	419965.1	3734477	9.37E-11	4.28E-10	9.36E-13	5.23E-10	1.28E-11	5.86E-11	1.39E-13	7.16E-11	7.88E-12	2.69E-11	3.24E-14	3.48E-11
2253	419962.6	3734468	9.36E-11	4.28E-10	9.35E-13	5.22E-10	1.28E-11	5.85E-11	1.39E-13	7.15E-11	7.87E-12	2.69E-11	3.23E-14	3.48E-11
2254	419955.1	3734440	9.36E-11	4.28E-10	9.36E-13	5.23E-10	1.28E-11	5.85E-11	1.39E-13	7.15E-11	7.88E-12	2.69E-11	3.24E-14	3.48E-11
2255	419952.6	3734431	9.35E-11	4.27E-10	9.34E-13	5.22E-10	1.28E-11	5.84E-11	1.39E-13	7.14E-11	7.86E-12	2.69E-11	3.23E-14	3.48E-11
2256	419950	3734422	9.32E-11	4.26E-10	9.32E-13	5.20E-10	1.28E-11	5.83E-11	1.39E-13	7.12E-11	7.84E-12	2.68E-11	3.22E-14	3.47E-11
2257	419947.5	3734413	9.30E-11	4.25E-10	9.29E-13	5.19E-10	1.27E-11	5.81E-11	1.38E-13	7.10E-11	7.82E-12	2.67E-11	3.21E-14	3.46E-11
2258	420293.7	3735001	1.52E-10	6.95E-10	1.52E-12	8.48E-10	2.08E-11	9.50E-11	2.26E-13	1.16E-10	1.28E-11	4.37E-11	5.25E-14	5.65E-11
2259	420302	3735006	1.54E-10	7.04E-10	1.54E-12	8.59E-10	2.11E-11	9.62E-11	2.29E-13	1.18E-10	1.30E-11	4.42E-11	5.32E-14	5.72E-11

2260	420310.4	3735011	1.56E-10	7.12E-10	1.56E-12	8.70E-10	2.14E-11	9.74E-11	2.32E-13	1.19E-10	1.31E-11	4.48E-11	5.38E-14	5.79E-11
2261	420318.7	3735016	1.57E-10	7.20E-10	1.57E-12	8.79E-10	2.16E-11	9.84E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.44E-14	5.85E-11
2262	420327.1	3735020	1.59E-10	7.27E-10	1.59E-12	8.87E-10	2.18E-11	9.94E-11	2.37E-13	1.21E-10	1.34E-11	4.57E-11	5.49E-14	5.91E-11
2263	420608.1	3734421	8.26E-09	3.78E-08	8.25E-11	4.61E-08	1.13E-09	5.16E-09	1.23E-11	6.31E-09	6.95E-10	2.37E-09	2.85E-12	3.07E-09
2264	420577.7	3734437	5.17E-09	2.37E-08	5.17E-11	2.89E-08	7.09E-10	3.23E-09	7.70E-12	3.95E-09	4.35E-10	1.49E-09	1.79E-12	1.92E-09
2265	420538.4	3734411	2.84E-09	1.30E-08	2.84E-11	1.58E-08	3.89E-10	1.77E-09	4.23E-12	2.17E-09	2.39E-10	8.16E-10	9.81E-13	1.06E-09
2266	420518.4	3734411	2.24E-09	1.02E-08	2.23E-11	1.25E-08	3.06E-10	1.40E-09	3.33E-12	1.71E-09	1.88E-10	6.42E-10	7.72E-13	8.31E-10
2267	420498.4	3734410	1.79E-09	8.20E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	2.67E-12	1.37E-09	1.51E-10	5.15E-10	6.20E-13	6.67E-10
2268	420478.4	3734410	1.46E-09	6.68E-09	1.46E-11	8.16E-09	2.00E-10	9.14E-10	2.18E-12	1.12E-09	1.23E-10	4.20E-10	5.05E-13	5.43E-10
2269	420458.4	3734409	1.21E-09	5.52E-09	1.21E-11	6.74E-09	1.66E-10	7.55E-10	1.80E-12	9.23E-10	1.02E-10	3.47E-10	4.18E-13	4.49E-10
2270	420418.4	3734408	8.57E-10	3.92E-09	8.57E-12	4.78E-09	1.17E-10	5.36E-10	1.28E-12	6.55E-10	7.21E-11	2.46E-10	2.96E-13	3.19E-10
2271	420398.4	3734407	7.34E-10	3.36E-09	7.34E-12	4.10E-09	1.01E-10	4.59E-10	1.09E-12	5.61E-10	6.18E-11	2.11E-10	2.54E-13	2.73E-10
2272	420378.4	3734407	6.34E-10	2.90E-09	6.34E-12	3.54E-09	8.70E-11	3.97E-10	9.44E-13	4.85E-10	5.34E-11	1.82E-10	2.19E-13	2.36E-10
2273	420338.5	3734406	4.85E-10	2.22E-09	4.85E-12	2.71E-09	6.65E-11	3.03E-10	7.23E-13	3.71E-10	4.08E-11	1.39E-10	1.68E-13	1.80E-10
2274	420338	3734422	4.78E-10	2.19E-09	4.78E-12	2.67E-09	6.56E-11	2.99E-10	7.12E-13	3.65E-10	4.03E-11	1.37E-10	1.65E-13	1.78E-10
2275	420298.3	3734413	3.79E-10	1.73E-09	3.79E-12	2.12E-09	5.20E-11	2.37E-10	5.64E-13	2.89E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
2276	420297.8	3734429	3.74E-10	1.71E-09	3.74E-12	2.09E-09	5.13E-11	2.34E-10	5.57E-13	2.86E-10	3.15E-11	1.07E-10	1.29E-13	1.39E-10
2277	420258.3	3734412	3.05E-10	1.39E-09	3.05E-12	1.70E-09	4.18E-11	1.91E-10	4.54E-13	2.33E-10	2.56E-11	8.76E-11	1.05E-13	1.13E-10
2278	420257.8	3734428	3.01E-10	1.38E-09	3.01E-12	1.68E-09	4.12E-11	1.88E-10	4.48E-13	2.30E-10	2.53E-11	8.65E-11	1.04E-13	1.12E-10
2279	420218.3	3734411	2.50E-10	1.14E-09	2.50E-12	1.40E-09	3.43E-11	1.56E-10	3.72E-13	1.91E-10	2.10E-11	7.19E-11	8.64E-14	9.30E-11
2280	420217.8	3734427	2.47E-10	1.13E-09	2.47E-12	1.38E-09	3.39E-11	1.54E-10	3.68E-13	1.89E-10	2.08E-11	7.10E-11	8.54E-14	9.19E-11
2281	420178.3	3734410	2.09E-10	9.54E-10	2.09E-12	1.16E-09	2.86E-11	1.30E-10	3.11E-13	1.59E-10	1.76E-11	6.00E-11	7.21E-14	7.76E-11
2282	420177.9	3734426	2.06E-10	9.43E-10	2.06E-12	1.15E-09	2.83E-11	1.29E-10	3.07E-13	1.58E-10	1.74E-11	5.93E-11	7.13E-14	7.67E-11
2283	420138.3	3734409	1.77E-10	8.08E-10	1.77E-12	9.86E-10	2.42E-11	1.10E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.11E-14	6.57E-11
2284	420137.9	3734425	1.75E-10	7.99E-10	1.75E-12	9.76E-10	2.40E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.04E-14	6.50E-11
2285	420098.3	3734408	1.51E-10	6.92E-10	1.51E-12	8.45E-10	2.08E-11	9.47E-11	2.25E-13	1.16E-10	1.27E-11	4.35E-11	5.23E-14	5.63E-11
2286	420097.9	3734424	1.50E-10	6.85E-10	1.50E-12	8.36E-10	2.05E-11	9.36E-11	2.23E-13	1.14E-10	1.26E-11	4.30E-11	5.18E-14	5.57E-11
2287	420058.3	3734407	1.31E-10	6.00E-10	1.31E-12	7.33E-10	1.80E-11	8.21E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.54E-14	4.88E-11
2288	420057.9	3734423	1.30E-10	5.94E-10	1.30E-12	7.25E-10	1.78E-11	8.12E-11	1.93E-13	9.92E-11	1.09E-11	3.73E-11	4.49E-14	4.83E-11
2289	420018.4	3734405	1.15E-10	5.27E-10	1.15E-12	6.43E-10	1.58E-11	7.20E-11	1.71E-13	8.80E-11	9.69E-12	3.31E-11	3.98E-14	4.28E-11
2290	420017.9	3734422	1.14E-10	5.20E-10	1.14E-12	6.34E-10	1.56E-11	7.11E-11	1.69E-13	8.68E-11	9.56E-12	3.27E-11	3.93E-14	4.23E-11
2291	419978.6	3734396	1.03E-10	4.69E-10	1.02E-12	5.72E-10	1.41E-11	6.41E-11	1.53E-13	7.83E-11	8.62E-12	2.95E-11	3.54E-14	3.81E-11
2292	419978.1	3734413	1.02E-10	4.64E-10	1.01E-12	5.67E-10	1.39E-11	6.35E-11	1.51E-13	7.75E-11	8.54E-12	2.92E-11	3.51E-14	3.77E-11
2293	420667.7	3734449	5.42E-08	2.48E-07	5.42E-10	3.02E-07	7.43E-09	3.39E-08	8.07E-11	4.14E-08	4.56E-09	1.56E-08	1.87E-11	2.01E-08
2294	420667.7	3734459	5.88E-08	2.69E-07	5.88E-10	3.28E-07	8.06E-09	3.68E-08	8.75E-11	4.49E-08	4.95E-09	1.69E-08	2.03E-11	2.19E-08
2295	420667.7	3734468	6.30E-08	2.88E-07	6.30E-10	3.52E-07	8.64E-09	3.94E-08	9.38E-11	4.81E-08	5.30E-09	1.81E-08	2.18E-11	2.34E-08
2296	420667.7	3734478	6.61E-08	3.02E-07	6.61E-10	3.69E-07	9.07E-09	4.14E-08	9.85E-11	5.05E-08	5.57E-09	1.90E-08	2.29E-11	2.46E-08
2297	420667.7	3734488	6.79E-08	3.10E-07	6.79E-10	3.79E-07	9.31E-09	4.24E-08	1.01E-10	5.19E-08	5.71E-09	1.95E-08	2.35E-11	2.52E-08
2298	420667.7	3734497	6.79E-08	3.10E-07	6.78E-10	3.79E-07	9.30E-09	4.24E-08	1.01E-10	5.18E-08	5.71E-09	1.95E-08	2.34E-11	2.52E-08
2299	420667.7	3734507	6.57E-08	3.01E-07	6.57E-10	3.67E-07	9.01E-09	4.11E-08	9.79E-11	5.02E-08	5.53E-09	1.89E-08	2.27E-11	2.44E-08
2300	420667.7	3734517	6.13E-08	2.80E-07	6.12E-10	3.42E-07	8.40E-09	3.83E-08	9.12E-11	4.68E-08	5.15E-09	1.76E-08	2.12E-11	2.28E-08
2301	420667.7	3734526	5.41E-08	2.47E-07	5.40E-10	3.02E-07	7.41E-09	3.38E-08	8.05E-11	4.13E-08	4.55E-09	1.55E-08	1.87E-11	2.01E-08
2302	420667.7	3734536	4.59E-08	2.10E-07	4.59E-10	2.56E-07	6.30E-09	2.87E-08	6.84E-11	3.51E-08	3.87E-09	1.32E-08	1.59E-11	1.71E-08
2303	420657.7	3734468	4.12E-08	1.88E-07	4.12E-10	2.30E-07	5.65E-09	2.57E-08	6.13E-11	3.15E-08	3.46E-09	1.18E-08	1.42E-11	1.53E-08
2304	420657.7	3734478	4.26E-08	1.95E-07	4.26E-10	2.38E-07	5.84E-09	2.67E-08	6.35E-11	3.26E-08	3.59E-09	1.23E-08	1.47E-11	1.59E-08
2305	420657.7	3734488	4.31E-08	1.97E-07	4.31E-10	2.41E-07	5.91E-09	2.70E-08	6.42E-11	3.29E-08	3.63E-09	1.24E-08	1.49E-11	1.60E-08
2306	420657.7	3734497	4.26E-08	1.95E-07	4.26E-10	2.38E-07	5.84E-09	2.66E-08	6.34E-11	3.25E-08	3.58E-09	1.22E-08	1.47E-11	1.58E-08
2307	420657.7	3734507	4.08E-08	1.87E-07	4.08E-10	2.28E-07	5.59E-09	2.55E-08	6.07E-11	3.12E-08	3.43E-09	1.17E-08	1.41E-11	1.52E-08
2308	420657.7	3734517	3.79E-08	1.73E-07	3.78E-10	2.11E-07	5.19E-09	2.37E-08	5.64E-11	2.89E-08	3.19E-09	1.09E-08	1.31E-11	1.41E-08
2309	420657.7	3734526	3.39E-08	1.55E-07	3.39E-10	1.89E-07	4.64E-09	2.12E-08	5.04E-11	2.59E-08	2.85E-09	9.73E-09	1.17E-11	1.26E-08
2310	420657.7	3734536	2.95E-08	1.35E-07	2.95E-10	1.65E-07	4.05E-09	1.85E-08	4.40E-11	2.26E-08	2.49E-09	8.49E-09	1.02E-11	1.10E-08
2311	420647.7	3734488	2.92E-08	1.33E-07	2.92E-10	1.63E-07	4.00E-09	1.82E-08	4.35E-11	2.23E-08	2.46E-09	8.39E-09	1.01E-11	1.09E-08
2312	420647.7	3734497	2.86E-08	1.31E-07	2.85E-10	1.59E-07	3.92E-09	1.79E-08	4.25E-11	2.18E-08	2.40E-09	8.21E-09	9.87E-12	1.06E-08
2313	420647.7	3734507	2.73E-08	1.25E-07	2.72E-10	1.52E-07	3.74E-09	1.70E-08	4.06E-11	2.08E-08	2.29E-09	7.83E-09	9.42E-12	1.01E-08
2314	420647.7	3734517	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.48E-09	1.59E-08	3.78E-11	1.94E-08	2.14E-09	7.29E-09	8.77E-12	9.44E-09
2315	420647.7	3734526	2.31E-08	1.05E-07	2.30E-10	1.29E-07	3.16E-09	1.44E-08	3.43E-11	1.76E-08	1.94E-09	6.63E-09	7.97E-12	8.57E-09
2316	420647.7	3734536	2.06E-08	9.41E-08	2.06E-10	1.15E-07	2.82E-09	1.29E-08	3.06E-11	1.57E-08	1.73E-09	5.91E-09	7.11E-12	7.65E-09
2317	420617.7	3734507	1.11E-08	5.08E-08	1.11E-10	6.21E-08	1.52E-09	6.95E-09	1.66E-11	8.49E-09	9.35E-10	3.20E-09	3.84E-12	4.13E-09
2318	420617.7	3734536	9.25E-09	4.23E-08	9.24E-11	5.16E-08	1.27E-09	5.78E-09	1.38E-11	7.06E-09	7.78E-10	2.66E-09	3.20E-12	3.44E-09
2319	420607.7	3734526	7.96E-09	3.64E-08	7.96E-11	4.44E-08	1.09E-09	4.98E-09	1.19E-11	6.08E-09	6.70E-10	2.29E-09	2.75E-12	2.96E-09
2320	420587.7	3734488	6.17E-09	2.82E-08	6.17E-11	3.44E-08	8.46E-10	3.86E-09	9.18E-12	4.71E-09	5.19E-10	1.77E-09	2.13E-12	2.29E-09
2321	420587.7	3734536	5.16E-09	2.36E-08	5.16E-11	2.88E-08	7.07E-10	3.23E-09	7.68E-12	3.94E-09	4.34E-10	1.48E-09	1.78E-12	1.92E-09
2322	420577.7	3734478	5.21E-09	2.38E-08	5.21E-11	2.91E-08	7.15E-10	3.26E-09	7.76E-12	3.98E-09	4.39E-10	1.50E-09	1.80E-12	1.94E-09
2323	420577.7	3734507	4.88E-09	2.23E-08	4.88E-11	2.72E-08	6.69E-10	3.05E-09	7.26E-12	3.73E-09	4.11E-10	1.40E-09	1.69E-12	1.81E-09
2324	420557.7	3734488	3.69E-09	1.69E-08	3.69E-11	2.06E-08	5.06E-10	2.31E-09	5.49E-12	2.82E-09	3.10E-10	1.06E-09	1.27E-12	1.37E-09
2325	420557.7	3734507	3.53E-09	1.62E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	5.26E-12	2.70E-09	2.97E-10	1.02E-09	1.22E-12	1.31E-09
2326	420517.7	3734468	2.19E-09	9.99E-09	2.18E-11	1.22E-08	3.00E-10	1.37E-09	3.25E-12	1.67E-09	1.84E-10	6.28E-10	7.55E-13	8.13E-10
2327	420517.7	3734478	2.16E-09	9.88E-09	2.16E-11	1.21E-08	2.96E-10	1.35E-09	3.22E-12	1.65E-09	1.82E-10	6.21E-10	7.47E-13	8.03E-10
2328	420497.7	3734478	1.71E-09	7.82E-09	1.71E-11	9.55E-09	2.35E-10	1.07E-09	2.55E-12	1.31E-09	1.44E-10	4.92E-10	5.91E-13	6.36E-10
2329	420497.7	3734507	1.64E-09	7.52E-09	1.64E-11	9.18E-09	2.25E-10	1.03E-09	2.45E-12	1.26E-09	1.38E-10	4.72E-10	5.68E-13	6.11E-10
2330	420497.7	3734536	1.56E-09	7.12E-09	1.56E-11	8.70E-09	2.14E-10	9.74E-10	2.32E-12	1.19E-09	1.31E-10	4.48E-10	5.38E-13	5.79E-10
2331	420477.7	3734478	1.38E-09	6.33E-09	1.38E-11	7.73E-09	1.90E-10	8.65E-10	2.06E-12	1.06E-09	1.16E-10	3.98E-10	4.78E-13	5.15E-10
2332	420477.7	3734517	1.32E-09	6.02E-09	1.31E-11	7.34E-09	1.80E-10	8.23E-10	1.96E-12	1.00E-09	1.11E-10	3.78E-10	4.55E-13	4.89E-10

2333	420457.7	3734478	1.14E-09	5.21E-09	1.14E-11	6.36E-09	1.56E-10	7.13E-10	1.70E-12	8.71E-10	9.59E-11	3.28E-10	3.94E-13	4.24E-10
2334	420417.7	3734478	8.07E-10	3.69E-09	8.06E-12	4.50E-09	1.11E-10	5.04E-10	1.20E-12	6.16E-10	6.79E-11	2.32E-10	2.79E-13	3.00E-10
2335	420417.7	3734536	7.58E-10	3.47E-09	7.58E-12	4.23E-09	1.04E-10	4.74E-10	1.13E-12	5.79E-10	6.38E-11	2.18E-10	2.62E-13	2.82E-10
2336	420397.7	3734478	6.91E-10	3.16E-09	6.90E-12	3.86E-09	9.47E-11	4.32E-10	1.03E-12	5.28E-10	5.81E-11	1.98E-10	2.39E-13	2.57E-10
2337	420377.7	3734478	5.97E-10	2.73E-09	5.97E-12	3.33E-09	8.19E-11	3.73E-10	8.89E-13	4.56E-10	5.02E-11	1.72E-10	2.06E-13	2.22E-10
2338	420337.7	3734440	4.71E-10	2.16E-09	4.71E-12	2.63E-09	6.46E-11	2.95E-10	7.02E-13	3.60E-10	3.97E-11	1.35E-10	1.63E-13	1.75E-10
2339	420337.7	3734468	4.61E-10	2.11E-09	4.61E-12	2.57E-09	6.32E-11	2.88E-10	6.87E-13	3.52E-10	3.88E-11	1.33E-10	1.59E-13	1.71E-10
2340	420337.7	3734478	4.58E-10	2.09E-09	4.58E-12	2.56E-09	6.28E-11	2.86E-10	6.82E-13	3.50E-10	3.85E-11	1.32E-10	1.58E-13	1.70E-10
2341	420257.7	3734440	2.98E-10	1.36E-09	2.98E-12	1.67E-09	4.09E-11	1.87E-10	4.44E-13	2.28E-10	2.51E-11	8.58E-11	1.03E-13	1.11E-10
2342	420257.7	3734468	2.93E-10	1.34E-09	2.93E-12	1.63E-09	4.01E-11	1.83E-10	4.36E-13	2.24E-10	2.46E-11	8.41E-11	1.01E-13	1.09E-10
2343	420257.7	3734478	2.91E-10	1.33E-09	2.91E-12	1.62E-09	3.99E-11	1.82E-10	4.33E-13	2.22E-10	2.45E-11	8.36E-11	1.00E-13	1.08E-10
2344	420217.7	3734440	2.45E-10	1.12E-09	2.45E-12	1.37E-09	3.36E-11	1.53E-10	3.65E-13	1.87E-10	2.06E-11	7.04E-11	8.46E-14	9.11E-11
2345	420217.7	3734468	2.40E-10	1.10E-09	2.40E-12	1.34E-09	3.29E-11	1.50E-10	3.58E-13	1.84E-10	2.02E-11	6.91E-11	8.31E-14	8.94E-11
2346	420217.7	3734478	2.39E-10	1.09E-09	2.39E-12	1.33E-09	3.27E-11	1.49E-10	3.55E-13	1.82E-10	2.01E-11	6.86E-11	8.25E-14	8.88E-11
2347	420177.7	3734440	2.05E-10	9.35E-10	2.04E-12	1.14E-09	2.80E-11	1.28E-10	3.04E-13	1.56E-10	1.72E-11	5.88E-11	7.07E-14	7.60E-11
2348	420177.7	3734468	2.01E-10	9.18E-10	2.01E-12	1.12E-09	2.75E-11	1.26E-10	2.99E-13	1.53E-10	1.69E-11	5.77E-11	6.94E-14	7.47E-11
2349	420177.7	3734478	2.00E-10	9.12E-10	1.99E-12	1.11E-09	2.74E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.90E-14	7.42E-11
2350	420137.7	3734440	1.73E-10	7.92E-10	1.73E-12	9.66E-10	2.37E-11	1.08E-10	2.58E-13	1.32E-10	1.46E-11	4.97E-11	5.98E-14	6.44E-11
2351	420137.7	3734468	1.70E-10	7.77E-10	1.70E-12	9.49E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.87E-14	6.32E-11
2352	420137.7	3734478	1.69E-10	7.72E-10	1.69E-12	9.42E-10	2.31E-11	1.06E-10	2.51E-13	1.29E-10	1.42E-11	4.85E-11	5.83E-14	6.28E-11
2353	420137.7	3734488	1.68E-10	7.67E-10	1.68E-12	9.37E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.82E-11	5.80E-14	6.24E-11
2354	420097.7	3734440	1.48E-10	6.78E-10	1.48E-12	8.27E-10	2.03E-11	9.27E-11	2.21E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
2355	420097.7	3734468	1.43E-10	6.54E-10	1.43E-12	7.99E-10	1.96E-11	8.94E-11	2.13E-13	1.09E-10	1.20E-11	4.11E-11	4.94E-14	5.32E-11
2356	420097.7	3734478	1.42E-10	6.48E-10	1.42E-12	7.91E-10	1.94E-11	8.86E-11	2.11E-13	1.08E-10	1.19E-11	4.07E-11	4.90E-14	5.27E-11
2357	420097.7	3734488	1.40E-10	6.42E-10	1.40E-12	7.84E-10	1.93E-11	8.78E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.85E-14	5.22E-11
2358	420057.7	3734440	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.89E-13	9.68E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
2359	420057.7	3734468	1.22E-10	5.58E-10	1.22E-12	6.81E-10	1.67E-11	7.63E-11	1.82E-13	9.32E-11	1.03E-11	3.51E-11	4.22E-14	4.54E-11
2360	420057.7	3734478	1.21E-10	5.54E-10	1.21E-12	6.76E-10	1.66E-11	7.57E-11	1.80E-13	9.25E-11	1.02E-11	3.48E-11	4.18E-14	4.50E-11
2361	420057.7	3734488	1.20E-10	5.49E-10	1.20E-12	6.71E-10	1.65E-11	7.51E-11	1.79E-13	9.18E-11	1.01E-11	3.45E-11	4.15E-14	4.47E-11
2362	420017.7	3734440	1.11E-10	5.07E-10	1.11E-12	6.19E-10	1.52E-11	6.94E-11	1.65E-13	8.47E-11	9.33E-12	3.19E-11	3.83E-14	4.13E-11
2363	420017.7	3734468	1.07E-10	4.91E-10	1.07E-12	6.00E-10	1.47E-11	6.72E-11	1.60E-13	8.21E-11	9.04E-12	3.09E-11	3.71E-14	3.99E-11
2364	420017.7	3734478	1.07E-10	4.88E-10	1.07E-12	5.95E-10	1.46E-11	6.67E-11	1.59E-13	8.15E-11	8.97E-12	3.07E-11	3.69E-14	3.97E-11
2365	420017.7	3734488	1.06E-10	4.84E-10	1.06E-12	5.91E-10	1.45E-11	6.62E-11	1.58E-13	8.09E-11	8.91E-12	3.04E-11	3.66E-14	3.94E-11
2366	419977.8	3734430	1.01E-10	4.60E-10	1.00E-12	5.61E-10	1.38E-11	6.28E-11	1.50E-13	7.68E-11	8.46E-12	2.89E-11	3.47E-14	3.74E-11
2367	419977.7	3734440	9.95E-11	4.55E-10	9.95E-13	5.55E-10	1.36E-11	6.22E-11	1.48E-13	7.60E-11	8.37E-12	2.86E-11	3.44E-14	3.70E-11
2368	419977.7	3734468	9.67E-11	4.42E-10	9.67E-13	5.40E-10	1.33E-11	6.05E-11	1.44E-13	7.39E-11	8.14E-12	2.78E-11	3.34E-14	3.60E-11
2369	419977.7	3734478	9.62E-11	4.40E-10	9.62E-13	5.37E-10	1.32E-11	6.02E-11	1.43E-13	7.35E-11	8.09E-12	2.76E-11	3.32E-14	3.58E-11
2370	419977.7	3734488	9.57E-11	4.38E-10	9.56E-13	5.34E-10	1.31E-11	5.98E-11	1.42E-13	7.31E-11	8.05E-12	2.75E-11	3.31E-14	3.56E-11
2371	420671.1	3734573	2.59E-08	1.18E-07	2.59E-10	1.45E-07	3.55E-09	1.62E-08	3.86E-11	1.98E-08	2.18E-09	7.44E-09	8.95E-12	9.63E-09
2372	420656.8	3734567	1.73E-08	7.89E-08	1.73E-10	9.63E-08	2.37E-09	1.08E-08	2.57E-11	1.32E-08	1.45E-09	4.96E-09	5.96E-12	6.42E-09
2373	420705.8	3734575	1.11E-07	5.07E-07	1.11E-09	6.19E-07	1.52E-08	6.93E-08	1.65E-10	8.47E-08	9.32E-09	3.18E-08	3.83E-11	4.12E-08
2374	420715	3734575	1.43E-07	6.53E-07	1.43E-09	7.98E-07	1.96E-08	8.93E-08	2.13E-10	1.09E-07	1.20E-08	4.11E-08	4.94E-11	5.31E-08
2375	420724.2	3734575	1.67E-07	7.62E-07	1.67E-09	9.30E-07	2.28E-08	1.04E-07	2.48E-10	1.27E-07	1.40E-08	4.79E-08	5.76E-11	6.20E-08
2376	420733.4	3734575	1.79E-07	8.18E-07	1.79E-09	9.98E-07	2.45E-08	1.12E-07	2.66E-10	1.37E-07	1.50E-08	5.14E-08	6.18E-11	6.65E-08
2377	420671.2	3734583	2.16E-08	9.90E-08	2.16E-10	1.21E-07	2.97E-09	1.35E-08	3.22E-11	1.65E-08	1.82E-09	6.22E-09	7.48E-12	8.05E-09
2378	420656.9	3734577	1.49E-08	6.79E-08	1.48E-10	8.29E-08	2.04E-09	9.29E-09	2.21E-11	1.13E-08	1.25E-09	4.27E-09	5.13E-12	5.52E-09
2379	420639.6	3734564	1.14E-08	5.22E-08	1.14E-10	6.37E-08	1.56E-09	7.13E-09	1.70E-11	8.71E-09	9.60E-10	3.28E-09	3.94E-12	4.24E-09
2380	420706	3734585	7.94E-08	3.63E-07	7.93E-10	4.43E-07	1.09E-08	4.96E-08	1.18E-10	6.06E-08	6.68E-09	2.28E-08	2.74E-11	2.95E-08
2381	420715.1	3734585	1.02E-07	4.66E-07	1.02E-09	5.69E-07	1.40E-08	6.37E-08	1.52E-10	7.79E-08	8.58E-09	2.93E-08	3.52E-11	3.79E-08
2382	420724.3	3734585	1.21E-07	5.54E-07	1.21E-09	6.76E-07	1.66E-08	7.57E-08	1.80E-10	9.25E-08	1.02E-08	3.48E-08	4.18E-11	4.50E-08
2383	420733.5	3734585	1.34E-07	6.12E-07	1.34E-09	7.47E-07	1.83E-08	8.37E-08	1.99E-10	1.02E-07	1.13E-08	3.85E-08	4.62E-11	4.98E-08
2384	420671.4	3734593	1.83E-08	8.38E-08	1.83E-10	1.02E-07	2.51E-09	1.15E-08	2.73E-11	1.40E-08	1.54E-09	5.27E-09	6.33E-12	6.81E-09
2385	420657.1	3734587	1.29E-08	5.90E-08	1.29E-10	7.20E-08	1.77E-09	8.06E-09	1.92E-11	9.85E-09	1.08E-09	3.71E-09	4.46E-12	4.79E-09
2386	420642.7	3734581	9.85E-09	4.50E-08	9.85E-11	5.50E-08	1.35E-09	6.16E-09	1.47E-11	7.52E-09	8.29E-10	2.83E-09	3.40E-12	3.66E-09
2387	420632.6	3734571	8.98E-09	4.11E-08	8.98E-11	5.01E-08	1.23E-09	5.61E-09	1.34E-11	6.86E-09	7.55E-10	2.58E-09	3.10E-12	3.34E-09
2388	420696.9	3734595	4.40E-08	2.01E-07	4.40E-10	2.46E-07	6.04E-09	2.75E-08	6.55E-11	3.36E-08	3.70E-09	1.27E-08	1.52E-11	1.64E-08
2389	420706.1	3734595	5.94E-08	2.72E-07	5.94E-10	3.32E-07	8.14E-09	3.71E-08	8.84E-11	4.54E-08	5.00E-09	1.71E-08	2.05E-11	2.21E-08
2390	420715.3	3734595	7.57E-08	3.46E-07	7.57E-10	4.23E-07	1.04E-08	4.74E-08	1.13E-10	5.79E-08	6.37E-09	2.18E-08	2.62E-11	2.82E-08
2391	420724.5	3734595	9.07E-08	4.14E-07	9.06E-10	5.06E-07	1.24E-08	5.67E-08	1.35E-10	6.92E-08	7.63E-09	2.61E-08	3.13E-11	3.37E-08
2392	420645.3	3734592	9.07E-09	4.15E-08	9.07E-11	5.07E-08	1.24E-09	5.67E-09	1.35E-11	6.93E-09	7.63E-10	2.61E-09	3.14E-12	3.37E-09
2393	420625.1	3734577	7.28E-09	3.33E-08	7.28E-11	4.06E-08	9.98E-10	4.55E-09	1.08E-11	5.56E-09	6.13E-10	2.09E-09	2.52E-12	2.71E-09
2394	420687.9	3734606	2.57E-08	1.17E-07	2.57E-10	1.43E-07	3.52E-09	1.60E-08	3.82E-11	1.96E-08	2.16E-09	7.38E-09	8.87E-12	9.55E-09
2395	420697.1	3734605	3.48E-08	1.59E-07	3.48E-10	1.94E-07	4.78E-09	2.18E-08	5.19E-11	2.66E-08	2.93E-09	1.00E-08	1.20E-11	1.30E-08
2396	420706.3	3734605	4.60E-08	2.10E-07	4.60E-10	2.57E-07	6.31E-09	2.88E-08	6.85E-11	3.51E-08	3.87E-09	1.32E-08	1.59E-11	1.71E-08
2397	420715.4	3734605	5.81E-08	2.66E-07	5.81E-10	3.24E-07	7.97E-09	3.63E-08	8.65E-11	4.44E-08	4.89E-09	1.67E-08	2.01E-11	2.16E-08
2398	420724.6	3734605	6.97E-08	3.19E-07	6.97E-10	3.89E-07	9.56E-09	4.36E-08	1.04E-10	5.33E-08	5.87E-09	2.00E-08	2.41E-11	2.59E-08
2399	420637.9	3734599	7.23E-09	3.30E-08	7.22E-11	4.03E-08	9.90E-10	4.52E-09	1.08E-11	5.52E-09	6.08E-10	2.08E-09	2.50E-12	2.69E-09
2400	420618.1	3734585	6.00E-09	2.74E-08	6.00E-11	3.35E-08	8.23E-10	3.75E-09	8.93E-12	4.58E-09	5.05E-10	1.72E-09	2.07E-12	2.23E-09
2401	420611.3	3734568	6.22E-09	2.84E-08	6.22E-11	3.47E-08	8.53E-10	3.89E-09	9.26E-12	4.75E-09	5.23E-10	1.79E-09	2.15E-12	2.31E-09
2402	420688	3734616	2.13E-08	9.76E-08	2.13E-10	1.19E-07	2.93E-09	1.33E-08	3.18E-11	1.63E-08	1.80E-09	6.13E-09	7.37E-12	7.93E-09
2403	420697.2	3734615	2.83E-08	1.29E-07	2.82E-10	1.58E-07	3.87E-09	1.77E-08	4.21E-11	2.16E-08	2.38E-09	8.12E-09	9.76E-12	1.05E-08
2404	420706.4	3734615	3.66E-08	1.67E-07	3.66E-10	2.04E-07	5.02E-09	2.29E-08	5.45E-11	2.80E-08	3.08E-09	1.05E-08	1.26E-11	1.36E-08
2405	420715.6	3734615	4.58E-08	2.09E-07	4.58E-10	2.56E-07	6.28E-09	2.86E-08	6.82E-11	3.50E-08	3.85E-09	1.32E-08	1.58E-11	1.70E-08

2406	420724.8	3734615	5.49E-08	2.51E-07	5.49E-10	3.07E-07	7.53E-09	3.43E-08	8.18E-11	4.19E-08	4.62E-09	1.58E-08	1.90E-11	2.04E-08
2407	420638.7	3734610	6.55E-09	2.99E-08	6.54E-11	3.65E-08	8.97E-10	4.09E-09	9.74E-12	5.00E-09	5.51E-10	1.88E-09	2.26E-12	2.43E-09
2408	420622.6	3734603	5.37E-09	2.46E-08	5.37E-11	3.00E-08	7.36E-10	3.36E-09	7.99E-12	4.10E-09	4.52E-10	1.54E-09	1.86E-12	2.00E-09
2409	420611.1	3734592	5.03E-09	2.30E-08	5.03E-11	2.81E-08	6.89E-10	3.14E-09	7.49E-12	3.84E-09	4.23E-10	1.44E-09	1.74E-12	1.87E-09
2410	420604.4	3734576	5.21E-09	2.38E-08	5.21E-11	2.91E-08	7.14E-10	3.26E-09	7.76E-12	3.98E-09	4.38E-10	1.50E-09	1.80E-12	1.94E-09
2411	420688.2	3734626	1.80E-08	8.23E-08	1.80E-10	1.01E-07	2.47E-09	1.13E-08	2.68E-11	1.38E-08	1.51E-09	5.17E-09	6.22E-12	6.70E-09
2412	420697.4	3734625	2.34E-08	1.07E-07	2.33E-10	1.30E-07	3.20E-09	1.46E-08	3.48E-11	1.78E-08	1.96E-09	6.71E-09	8.07E-12	8.68E-09
2413	420706.5	3734625	2.98E-08	1.36E-07	2.97E-10	1.66E-07	4.08E-09	1.86E-08	4.43E-11	2.27E-08	2.50E-09	8.55E-09	1.03E-11	1.11E-08
2414	420715.7	3734625	3.69E-08	1.68E-07	3.68E-10	2.06E-07	5.05E-09	2.30E-08	5.49E-11	2.81E-08	3.10E-09	1.06E-08	1.27E-11	1.37E-08
2415	420724.9	3734625	4.41E-08	2.02E-07	4.41E-10	2.46E-07	6.05E-09	2.76E-08	6.57E-11	3.37E-08	3.71E-09	1.27E-08	1.52E-11	1.64E-08
2416	420639.3	3734620	5.95E-09	2.72E-08	5.94E-11	3.32E-08	8.15E-10	3.72E-09	8.85E-12	4.54E-09	5.00E-10	1.71E-09	2.05E-12	2.21E-09
2417	420623.4	3734613	4.92E-09	2.25E-08	4.92E-11	2.75E-08	6.74E-10	3.08E-09	7.32E-12	3.76E-09	4.14E-10	1.41E-09	1.70E-12	1.83E-09
2418	420604.2	3734599	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.85E-10	2.67E-09	6.36E-12	3.26E-09	3.59E-10	1.23E-09	1.48E-12	1.59E-09
2419	420597.5	3734583	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.77E-09	6.59E-12	3.38E-09	3.72E-10	1.27E-09	1.53E-12	1.64E-09
2420	420688.3	3734636	1.54E-08	7.03E-08	1.54E-10	8.58E-08	2.11E-09	9.61E-09	2.29E-11	1.17E-08	1.29E-09	4.42E-09	5.31E-12	5.72E-09
2421	420697.5	3734635	1.96E-08	8.96E-08	1.96E-10	1.09E-07	2.69E-09	1.22E-08	2.92E-11	1.50E-08	1.65E-09	5.63E-09	6.77E-12	7.28E-09
2422	420706.7	3734635	2.46E-08	1.13E-07	2.46E-10	1.37E-07	3.37E-09	1.54E-08	3.66E-11	1.88E-08	2.07E-09	7.07E-09	8.50E-12	9.15E-09
2423	420715.9	3734635	3.02E-08	1.38E-07	3.02E-10	1.69E-07	4.14E-09	1.89E-08	4.50E-11	2.31E-08	2.54E-09	8.68E-09	1.04E-11	1.12E-08
2424	420725.1	3734635	3.60E-08	1.65E-07	3.60E-10	2.01E-07	4.94E-09	2.25E-08	5.36E-11	2.75E-08	3.03E-09	1.03E-08	1.24E-11	1.34E-08
2425	420671.6	3734653	8.07E-09	3.69E-08	8.06E-11	4.50E-08	1.11E-09	5.04E-09	1.20E-11	6.16E-09	6.79E-10	2.32E-09	2.79E-12	3.00E-09
2426	420640.3	3734640	4.94E-09	2.26E-08	4.93E-11	2.76E-08	6.77E-10	3.09E-09	7.35E-12	3.77E-09	4.15E-10	1.42E-09	1.71E-12	1.84E-09
2427	420624.7	3734634	4.14E-09	1.89E-08	4.14E-11	2.31E-08	5.67E-10	2.59E-09	6.16E-12	3.16E-09	3.48E-10	1.19E-09	1.43E-12	1.54E-09
2428	420609.1	3734627	3.57E-09	1.63E-08	3.57E-11	1.99E-08	4.89E-10	2.23E-09	5.31E-12	2.73E-09	3.00E-10	1.03E-09	1.23E-12	1.33E-09
2429	420590.2	3734613	3.18E-09	1.45E-08	3.18E-11	1.78E-08	4.36E-10	1.99E-09	4.74E-12	2.43E-09	2.68E-10	9.14E-10	1.10E-12	1.18E-09
2430	420583.7	3734598	3.29E-09	1.51E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	4.90E-12	2.51E-09	2.77E-10	9.46E-10	1.14E-12	1.22E-09
2431	420573.9	3734575	3.37E-09	1.54E-08	3.37E-11	1.88E-08	4.62E-10	2.11E-09	5.02E-12	2.58E-09	2.84E-10	9.69E-10	1.17E-12	1.25E-09
2432	420688.6	3734656	1.15E-08	5.28E-08	1.15E-10	6.44E-08	1.58E-09	7.22E-09	1.72E-11	8.82E-09	9.71E-10	3.32E-09	3.99E-12	4.29E-09
2433	420697.8	3734655	1.43E-08	6.54E-08	1.43E-10	7.98E-08	1.96E-09	8.94E-09	2.13E-11	1.09E-08	1.20E-09	4.11E-09	4.94E-12	5.32E-09
2434	420707	3734655	1.76E-08	8.03E-08	1.75E-10	9.80E-08	2.41E-09	1.10E-08	2.61E-11	1.34E-08	1.48E-09	5.04E-09	6.07E-12	6.53E-09
2435	420716.2	3734655	2.12E-08	9.69E-08	2.12E-10	1.18E-07	2.91E-09	1.33E-08	3.15E-11	1.62E-08	1.78E-09	6.09E-09	7.32E-12	7.88E-09
2436	420671.3	3734672	6.42E-09	2.94E-08	6.42E-11	3.58E-08	8.80E-10	4.01E-09	9.56E-12	4.90E-09	5.40E-10	1.85E-09	2.22E-12	2.39E-09
2437	420654.6	3734666	4.96E-09	2.27E-08	4.96E-11	2.77E-08	6.80E-10	3.10E-09	7.38E-12	3.79E-09	4.17E-10	1.43E-09	1.71E-12	1.84E-09
2438	420646.3	3734662	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.76E-09	6.58E-12	3.38E-09	3.72E-10	1.27E-09	1.53E-12	1.64E-09
2439	420629.6	3734656	3.64E-09	1.67E-08	3.64E-11	2.03E-08	4.99E-10	2.28E-09	5.42E-12	2.78E-09	3.07E-10	1.05E-09	1.26E-12	1.35E-09
2440	420612.8	3734649	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	4.65E-12	2.38E-09	2.63E-10	8.97E-10	1.08E-12	1.16E-09
2441	420604.5	3734646	2.92E-09	1.33E-08	2.91E-11	1.63E-08	4.00E-10	1.82E-09	4.34E-12	2.23E-09	2.45E-10	8.38E-10	1.01E-12	1.08E-09
2442	420587.8	3734639	2.57E-09	1.17E-08	2.56E-11	1.43E-08	3.52E-10	1.60E-09	3.82E-12	1.96E-09	2.16E-10	7.37E-10	8.87E-13	9.54E-10
2443	420575.9	3734627	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	3.66E-12	1.88E-09	2.07E-10	7.07E-10	8.50E-13	9.15E-10
2444	420572.4	3734619	2.50E-09	1.15E-08	2.50E-11	1.40E-08	3.43E-10	1.57E-09	3.73E-12	1.91E-09	2.11E-10	7.20E-10	8.66E-13	9.31E-10
2445	420679.7	3734676	7.36E-09	3.36E-08	7.35E-11	4.11E-08	1.01E-09	4.60E-09	1.09E-11	5.62E-09	6.19E-10	2.11E-09	2.54E-12	2.74E-09
2446	420688.9	3734676	8.94E-09	4.09E-08	8.93E-11	4.99E-08	1.22E-09	5.59E-09	1.33E-11	6.83E-09	7.52E-10	2.57E-09	3.09E-12	3.32E-09
2447	420698.1	3734675	1.08E-08	4.96E-08	1.08E-10	6.05E-08	1.49E-09	6.78E-09	1.61E-11	8.28E-09	9.12E-10	3.12E-09	3.75E-12	4.03E-09
2448	420707.3	3734675	1.31E-08	5.97E-08	1.31E-10	7.29E-08	1.79E-09	8.16E-09	1.94E-11	9.97E-09	1.10E-09	3.75E-09	4.51E-12	4.86E-09
2449	420716.5	3734675	1.55E-08	7.11E-08	1.55E-10	8.68E-08	2.13E-09	9.72E-09	2.31E-11	1.19E-08	1.31E-09	4.47E-09	5.37E-12	5.78E-09
2450	420671.8	3734692	5.27E-09	2.41E-08	5.26E-11	2.94E-08	7.22E-10	3.29E-09	7.84E-12	4.02E-09	4.43E-10	1.51E-09	1.82E-12	1.96E-09
2451	420655.4	3734686	4.18E-09	1.91E-08	4.17E-11	2.33E-08	5.72E-10	2.61E-09	6.22E-12	3.19E-09	3.51E-10	1.20E-09	1.44E-12	1.55E-09
2452	420639.1	3734679	3.41E-09	1.56E-08	3.41E-11	1.90E-08	4.68E-10	2.13E-09	5.08E-12	2.61E-09	2.87E-10	9.80E-10	1.18E-12	1.27E-09
2453	420622.7	3734673	2.89E-09	1.32E-08	2.89E-11	1.62E-08	3.97E-10	1.81E-09	4.31E-12	2.21E-09	2.44E-10	8.32E-10	1.00E-12	1.08E-09
2454	420606.3	3734666	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	3.77E-12	1.94E-09	2.13E-10	7.28E-10	8.76E-13	9.42E-10
2455	420589.9	3734660	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.09E-10	1.41E-09	3.36E-12	1.72E-09	1.90E-10	6.48E-10	7.80E-13	8.39E-10
2456	420573.6	3734653	2.02E-09	9.25E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	3.01E-12	1.55E-09	1.70E-10	5.81E-10	6.99E-13	7.52E-10
2457	420531.3	3734568	2.05E-09	9.38E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	3.05E-12	1.57E-09	1.73E-10	5.89E-10	7.09E-13	7.63E-10
2458	420689.2	3734696	7.09E-09	3.24E-08	7.09E-11	3.96E-08	9.72E-10	4.43E-09	1.06E-11	5.42E-09	5.97E-10	2.04E-09	2.45E-12	2.64E-09
2459	420698.4	3734695	8.46E-09	3.87E-08	8.45E-11	4.72E-08	1.16E-09	5.29E-09	1.26E-11	6.46E-09	7.11E-10	2.43E-09	2.92E-12	3.14E-09
2460	420707.6	3734695	1.00E-08	4.59E-08	1.00E-10	5.60E-08	1.37E-09	6.27E-09	1.49E-11	7.66E-09	8.44E-10	2.88E-09	3.47E-12	3.73E-09
2461	420735.1	3734695	1.56E-08	7.15E-08	1.56E-10	8.74E-08	2.15E-09	9.78E-09	2.33E-11	1.20E-08	1.32E-09	4.50E-09	5.41E-12	5.82E-09
2462	420672.2	3734712	4.38E-09	2.00E-08	4.38E-11	2.44E-08	6.00E-10	2.74E-09	6.52E-12	3.35E-09	3.68E-10	1.26E-09	1.51E-12	1.63E-09
2463	420656.1	3734706	3.55E-09	1.62E-08	3.55E-11	1.98E-08	4.86E-10	2.22E-09	5.28E-12	2.71E-09	2.98E-10	1.02E-09	1.23E-12	1.32E-09
2464	420640	3734700	2.94E-09	1.34E-08	2.94E-11	1.64E-08	4.03E-10	1.84E-09	4.37E-12	2.24E-09	2.47E-10	8.44E-10	1.02E-12	1.09E-09
2465	420623.9	3734693	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	3.74E-12	1.92E-09	2.11E-10	7.22E-10	8.68E-13	9.34E-10
2466	420607.7	3734687	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	3.29E-12	1.69E-09	1.86E-10	6.35E-10	7.64E-13	8.22E-10
2467	420591.6	3734680	1.98E-09	9.08E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	2.95E-12	1.52E-09	1.67E-10	5.70E-10	6.86E-13	7.38E-10
2468	420575.5	3734674	1.80E-09	8.22E-09	1.80E-11	1.00E-08	2.46E-10	1.12E-09	2.68E-12	1.37E-09	1.51E-10	5.17E-10	6.21E-13	6.69E-10
2469	420548	3734656	1.58E-09	7.24E-09	1.58E-11	8.84E-09	2.17E-10	9.90E-10	2.36E-12	1.21E-09	1.33E-10	4.55E-10	5.47E-13	5.89E-10
2470	420689.5	3734716	5.74E-09	2.62E-08	5.74E-11	3.20E-08	7.87E-10	3.59E-09	8.54E-12	4.38E-09	4.83E-10	1.65E-09	1.98E-12	2.13E-09
2471	420698.7	3734715	6.74E-09	3.08E-08	6.74E-11	3.76E-08	9.24E-10	4.22E-09	1.00E-11	5.15E-09	5.67E-10	1.94E-09	2.33E-12	2.51E-09
2472	420707.8	3734715	7.89E-09	3.61E-08	7.89E-11	4.41E-08	1.08E-09	4.93E-09	1.17E-11	6.03E-09	6.64E-10	2.27E-09	2.73E-12	2.93E-09
2473	420735.4	3734715	1.20E-08	5.50E-08	1.20E-10	6.72E-08	1.65E-09	7.52E-09	1.79E-11	9.19E-09	1.01E-09	3.46E-09	4.16E-12	4.47E-09
2474	420663.7	3734729	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.53E-10	2.07E-09	4.92E-12	2.52E-09	2.78E-10	9.49E-10	1.14E-12	1.23E-09
2475	420655.3	3734726	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.10E-10	1.87E-09	4.45E-12	2.28E-09	2.52E-10	8.59E-10	1.03E-12	1.11E-09
2476	420646.9	3734722	2.72E-09	1.24E-08	2.72E-11	1.52E-08	3.73E-10	1.70E-09	4.05E-12	2.08E-09	2.29E-10	7.82E-10	9.40E-13	1.01E-09
2477	420638.4	3734719	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	3.71E-12	1.90E-09	2.10E-10	7.16E-10	8.60E-13	9.26E-10
2478	420630	3734715	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.15E-10	1.44E-09	3.42E-12	1.75E-09	1.93E-10	6.60E-10	7.94E-13	8.54E-10

2479	420621.6	3734712	2.14E-09	9.77E-09	2.14E-11	1.19E-08	2.93E-10	1.34E-09	3.18E-12	1.63E-09	1.80E-10	6.14E-10	7.38E-13	7.94E-10
2480	420613.1	3734709	2.00E-09	9.15E-09	2.00E-11	1.12E-08	2.74E-10	1.25E-09	2.98E-12	1.53E-09	1.68E-10	5.75E-10	6.91E-13	7.44E-10
2481	420604.7	3734705	1.89E-09	8.62E-09	1.89E-11	1.05E-08	2.59E-10	1.18E-09	2.81E-12	1.44E-09	1.59E-10	5.42E-10	6.52E-13	7.01E-10
2482	420596.3	3734702	1.79E-09	8.17E-09	1.79E-11	9.97E-09	2.45E-10	1.12E-09	2.66E-12	1.36E-09	1.50E-10	5.13E-10	6.17E-13	6.64E-10
2483	420587.9	3734698	1.70E-09	7.77E-09	1.70E-11	9.48E-09	2.33E-10	1.06E-09	2.53E-12	1.30E-09	1.43E-10	4.88E-10	5.87E-13	6.32E-10
2484	420579.4	3734695	1.62E-09	7.40E-09	1.62E-11	9.04E-09	2.22E-10	1.01E-09	2.41E-12	1.24E-09	1.36E-10	4.65E-10	5.59E-13	6.02E-10
2485	420554.1	3734685	1.41E-09	6.45E-09	1.41E-11	7.88E-09	1.93E-10	8.82E-10	2.10E-12	1.08E-09	1.19E-10	4.06E-10	4.88E-13	5.25E-10
2486	420545.7	3734682	1.35E-09	6.16E-09	1.35E-11	7.52E-09	1.85E-10	8.43E-10	2.01E-12	1.03E-09	1.13E-10	3.87E-10	4.66E-13	5.01E-10
2487	420519.8	3734636	1.37E-09	6.26E-09	1.37E-11	7.64E-09	1.88E-10	8.56E-10	2.04E-12	1.05E-09	1.15E-10	3.93E-10	4.73E-13	5.09E-10
2488	420502.2	3734594	1.38E-09	6.31E-09	1.38E-11	7.71E-09	1.89E-10	8.63E-10	2.06E-12	1.05E-09	1.16E-10	3.97E-10	4.77E-13	5.13E-10
2489	420735.7	3734735	9.47E-09	4.33E-08	9.47E-11	5.29E-08	1.30E-09	5.92E-09	1.41E-11	7.23E-09	7.97E-10	2.72E-09	3.27E-12	3.52E-09
2490	420606.2	3734726	1.67E-09	7.64E-09	1.67E-11	9.33E-09	2.29E-10	1.05E-09	2.49E-12	1.28E-09	1.41E-10	4.80E-10	5.78E-13	6.22E-10
2491	420589.6	3734719	1.51E-09	6.91E-09	1.51E-11	8.44E-09	2.07E-10	9.45E-10	2.25E-12	1.15E-09	1.27E-10	4.34E-10	5.22E-13	5.62E-10
2492	420573	3734712	1.38E-09	6.33E-09	1.38E-11	7.73E-09	1.90E-10	8.65E-10	2.06E-12	1.06E-09	1.16E-10	3.98E-10	4.78E-13	5.15E-10
2493	420539.8	3734699	1.17E-09	5.37E-09	1.17E-11	6.55E-09	1.61E-10	7.34E-10	1.75E-12	8.97E-10	9.88E-11	3.37E-10	4.06E-13	4.36E-10
2494	420519.8	3734684	1.10E-09	5.02E-09	1.10E-11	6.12E-09	1.50E-10	6.86E-10	1.63E-12	8.38E-10	9.23E-11	3.15E-10	3.79E-13	4.08E-10
2495	420468	3734560	1.11E-09	5.07E-09	1.11E-11	6.19E-09	1.52E-10	6.93E-10	1.65E-12	8.47E-10	9.33E-11	3.19E-10	3.83E-13	4.12E-10
2496	420736	3734755	7.60E-09	3.47E-08	7.60E-11	4.24E-08	1.04E-09	4.75E-09	1.13E-11	5.80E-09	6.39E-10	2.18E-09	2.63E-12	2.83E-09
2497	420542	3734720	1.07E-09	4.88E-09	1.07E-11	5.96E-09	1.46E-10	6.68E-10	1.59E-12	8.16E-10	8.98E-11	3.07E-10	3.69E-13	3.97E-10
2498	420525.6	3734713	9.91E-10	4.53E-09	9.91E-12	5.53E-09	1.36E-10	6.20E-10	1.48E-12	7.57E-10	8.34E-11	2.85E-10	3.43E-13	3.69E-10
2499	420502.4	3734690	9.43E-10	4.31E-09	9.43E-12	5.27E-09	1.29E-10	5.90E-10	1.40E-12	7.21E-10	7.94E-11	2.71E-10	3.26E-13	3.51E-10
2500	420495.6	3734674	9.62E-10	4.40E-09	9.62E-12	5.37E-09	1.32E-10	6.02E-10	1.43E-12	7.35E-10	8.10E-11	2.77E-10	3.33E-13	3.58E-10
2501	420690.3	3734776	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	4.53E-12	2.32E-09	2.56E-10	8.74E-10	1.05E-12	1.13E-09
2502	420699.5	3734775	3.51E-09	1.61E-08	3.51E-11	1.96E-08	4.82E-10	2.20E-09	5.23E-12	2.68E-09	2.96E-10	1.01E-09	1.21E-12	1.31E-09
2503	420708.7	3734775	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	6.04E-12	3.10E-09	3.42E-10	1.17E-09	1.40E-12	1.51E-09
2504	420736.3	3734775	6.13E-09	2.80E-08	6.13E-11	3.42E-08	8.40E-10	3.83E-09	9.12E-12	4.68E-09	5.16E-10	1.76E-09	2.12E-12	2.28E-09
2505	420673	3734792	2.14E-09	9.79E-09	2.14E-11	1.20E-08	2.94E-10	1.34E-09	3.19E-12	1.64E-09	1.80E-10	6.15E-10	7.40E-13	7.96E-10
2506	420596.8	3734762	1.24E-09	5.67E-09	1.24E-11	6.92E-09	1.70E-10	7.75E-10	1.85E-12	9.47E-10	1.04E-10	3.56E-10	4.29E-13	4.61E-10
2507	420588.3	3734758	1.18E-09	5.42E-09	1.18E-11	6.61E-09	1.62E-10	7.40E-10	1.76E-12	9.05E-10	9.96E-11	3.40E-10	4.09E-13	4.40E-10
2508	420579.8	3734755	1.14E-09	5.19E-09	1.13E-11	6.34E-09	1.56E-10	7.10E-10	1.69E-12	8.67E-10	9.55E-11	3.26E-10	3.92E-13	4.22E-10
2509	420571.4	3734752	1.09E-09	4.99E-09	1.09E-11	6.09E-09	1.50E-10	6.82E-10	1.62E-12	8.33E-10	9.18E-11	3.14E-10	3.77E-13	4.06E-10
2510	420520.6	3734731	8.81E-10	4.03E-09	8.80E-12	4.92E-09	1.21E-10	5.51E-10	1.31E-12	6.73E-10	7.41E-11	2.53E-10	3.04E-13	3.27E-10
2511	420512.1	3734728	8.50E-10	3.88E-09	8.49E-12	4.74E-09	1.16E-10	5.31E-10	1.26E-12	6.49E-10	7.15E-11	2.44E-10	2.94E-13	3.16E-10
2512	420503.6	3734724	8.19E-10	3.75E-09	8.19E-12	4.57E-09	1.12E-10	5.12E-10	1.22E-12	6.26E-10	6.89E-11	2.35E-10	2.83E-13	3.05E-10
2513	420491.6	3734713	8.01E-10	3.66E-09	8.00E-12	4.47E-09	1.10E-10	5.01E-10	1.19E-12	6.12E-10	6.74E-11	2.30E-10	2.77E-13	2.98E-10
2514	420477.6	3734679	8.32E-10	3.80E-09	8.31E-12	4.64E-09	1.14E-10	5.20E-10	1.24E-12	6.35E-10	7.00E-11	2.39E-10	2.87E-13	3.09E-10
2515	420470.5	3734662	8.40E-10	3.84E-09	8.40E-12	4.69E-09	1.15E-10	5.25E-10	1.25E-12	6.42E-10	7.07E-11	2.41E-10	2.90E-13	3.12E-10
2516	420459.9	3734637	8.44E-10	3.86E-09	8.44E-12	4.71E-09	1.16E-10	5.28E-10	1.26E-12	6.45E-10	7.10E-11	2.43E-10	2.92E-13	3.14E-10
2517	420438.8	3734586	8.21E-10	3.76E-09	8.21E-12	4.58E-09	1.13E-10	5.13E-10	1.22E-12	6.27E-10	6.91E-11	2.36E-10	2.84E-13	3.05E-10
2518	420681.4	3734796	2.32E-09	1.06E-08	2.32E-11	1.30E-08	3.18E-10	1.45E-09	3.46E-12	1.77E-09	1.95E-10	6.67E-10	8.02E-13	8.63E-10
2519	420690.6	3734796	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	3.89E-12	1.99E-09	2.20E-10	7.50E-10	9.02E-13	9.71E-10
2520	420699.8	3734795	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.09E-10	1.87E-09	4.45E-12	2.28E-09	2.51E-10	8.58E-10	1.03E-12	1.11E-09
2521	420709	3734795	3.42E-09	1.56E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	5.09E-12	2.61E-09	2.88E-10	9.82E-10	1.18E-12	1.27E-09
2522	420736.6	3734795	5.06E-09	2.32E-08	5.06E-11	2.83E-08	6.94E-10	3.17E-09	7.54E-12	3.87E-09	4.26E-10	1.46E-09	1.75E-12	1.88E-09
2523	420673.4	3734812	1.89E-09	8.65E-09	1.89E-11	1.06E-08	2.59E-10	1.18E-09	2.82E-12	1.44E-09	1.59E-10	5.43E-10	6.54E-13	7.03E-10
2524	420598.2	3734782	1.12E-09	5.11E-09	1.12E-11	6.24E-09	1.53E-10	6.98E-10	1.66E-12	8.53E-10	9.40E-11	3.21E-10	3.86E-13	4.15E-10
2525	420589.8	3734779	1.07E-09	4.88E-09	1.07E-11	5.96E-09	1.46E-10	6.68E-10	1.59E-12	8.16E-10	8.98E-11	3.07E-10	3.69E-13	3.97E-10
2526	420573.1	3734772	9.86E-10	4.51E-09	9.85E-12	5.50E-09	1.35E-10	6.16E-10	1.47E-12	7.53E-10	8.29E-11	2.83E-10	3.41E-13	3.66E-10
2527	420556.4	3734765	9.19E-10	4.20E-09	9.19E-12	5.13E-09	1.26E-10	5.75E-10	1.37E-12	7.02E-10	7.74E-11	2.64E-10	3.18E-13	3.42E-10
2528	420477.6	3734727	6.94E-10	3.17E-09	6.94E-12	3.88E-09	9.52E-11	4.34E-10	1.03E-12	5.30E-10	5.84E-11	1.99E-10	2.40E-13	2.58E-10
2529	420470.7	3734710	7.09E-10	3.24E-09	7.08E-12	3.96E-09	9.72E-11	4.43E-10	1.06E-12	5.41E-10	5.96E-11	2.04E-10	2.45E-13	2.64E-10
2530	420463.7	3734694	7.19E-10	3.29E-09	7.19E-12	4.02E-09	9.86E-11	4.50E-10	1.07E-12	5.49E-10	6.05E-11	2.07E-10	2.49E-13	2.67E-10
2531	420435.9	3734627	7.28E-10	3.33E-09	7.28E-12	4.07E-09	9.98E-11	4.55E-10	1.08E-12	5.56E-10	6.13E-11	2.09E-10	2.52E-13	2.71E-10
2532	420681.7	3734816	2.03E-09	9.28E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	3.02E-12	1.55E-09	1.71E-10	5.84E-10	7.02E-13	7.55E-10
2533	420690.9	3734816	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	3.36E-12	1.73E-09	1.90E-10	6.49E-10	7.81E-13	8.40E-10
2534	420700.1	3734815	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.95E-09	2.15E-10	7.35E-10	8.84E-13	9.51E-10
2535	420709.3	3734815	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.97E-10	1.81E-09	4.31E-12	2.21E-09	2.43E-10	8.31E-10	1.00E-12	1.08E-09
2536	420736.9	3734815	4.22E-09	1.93E-08	4.21E-11	2.35E-08	5.78E-10	2.64E-09	6.28E-12	3.22E-09	3.55E-10	1.21E-09	1.46E-12	1.57E-09
2537	420673.8	3734832	1.67E-09	7.65E-09	1.67E-11	9.34E-09	2.29E-10	1.05E-09	2.49E-12	1.28E-09	1.41E-10	4.81E-10	5.78E-13	6.22E-10
2538	420657.2	3734826	1.48E-09	6.76E-09	1.48E-11	8.26E-09	2.03E-10	9.25E-10	2.20E-12	1.13E-09	1.24E-10	4.25E-10	5.11E-13	5.50E-10
2539	420607.6	3734806	1.06E-09	4.85E-09	1.06E-11	5.93E-09	1.46E-10	6.64E-10	1.58E-12	8.11E-10	8.93E-11	3.05E-10	3.67E-13	3.95E-10
2540	420591.1	3734799	9.68E-10	4.42E-09	9.67E-12	5.40E-09	1.33E-10	6.05E-10	1.44E-12	7.39E-10	8.14E-11	2.78E-10	3.34E-13	3.60E-10
2541	420574.6	3734793	8.94E-10	4.09E-09	8.94E-12	4.99E-09	1.23E-10	5.59E-10	1.33E-12	6.83E-10	7.52E-11	2.57E-10	3.09E-13	3.33E-10
2542	420558	3734786	8.35E-10	3.82E-09	8.34E-12	4.66E-09	1.14E-10	5.22E-10	1.24E-12	6.38E-10	7.02E-11	2.40E-10	2.89E-13	3.10E-10
2543	420541.5	3734779	7.85E-10	3.59E-09	7.84E-12	4.38E-09	1.08E-10	4.90E-10	1.17E-12	5.99E-10	6.60E-11	2.25E-10	2.71E-13	2.92E-10
2544	420508.4	3734766	6.99E-10	3.19E-09	6.98E-12	3.90E-09	9.58E-11	4.37E-10	1.04E-12	5.34E-10	5.88E-11	2.01E-10	2.41E-13	2.60E-10
2545	420491.9	3734759	6.59E-10	3.01E-09	6.58E-12	3.68E-09	9.03E-11	4.12E-10	9.80E-13	5.03E-10	5.54E-11	1.89E-10	2.28E-13	2.45E-10
2546	420475.4	3734753	6.19E-10	2.83E-09	6.19E-12	3.46E-09	8.49E-11	3.87E-10	9.22E-13	4.73E-10	5.21E-11	1.78E-10	2.14E-13	2.30E-10
2547	420449.9	3734708	6.28E-10	2.87E-09	6.28E-12	3.50E-09	8.61E-11	3.93E-10	9.35E-13	4.80E-10	5.28E-11	1.80E-10	2.17E-13	2.33E-10
2548	420443	3734692	6.32E-10	2.89E-09	6.31E-12	3.53E-09	8.66E-11	3.95E-10	9.40E-13	4.82E-10	5.31E-11	1.81E-10	2.18E-13	2.35E-10
2549	420436.1	3734675	6.34E-10	2.90E-09	6.34E-12	3.54E-09	8.69E-11	3.97E-10	9.44E-13	4.84E-10	5.34E-11	1.82E-10	2.19E-13	2.36E-10
2550	420408.6	3734610	6.26E-10	2.86E-09	6.25E-12	3.49E-09	8.58E-11	3.91E-10	9.32E-13	4.78E-10	5.26E-11	1.80E-10	2.16E-13	2.33E-10
2551	420401.7	3734593	6.16E-10	2.82E-09	6.15E-12	3.44E-09	8.44E-11	3.85E-10	9.17E-13	4.70E-10	5.18E-11	1.77E-10	2.13E-13	2.29E-10

2552	420394.9	3734577	6.03E-10	2.76E-09	6.03E-12	3.37E-09	8.27E-11	3.77E-10	8.98E-13	4.61E-10	5.08E-11	1.73E-10	2.09E-13	2.24E-10
2553	420691.2	3734836	1.97E-09	9.02E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	2.94E-12	1.51E-09	1.66E-10	5.67E-10	6.81E-13	7.33E-10
2554	420700.4	3734835	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	3.29E-12	1.69E-09	1.86E-10	6.35E-10	7.63E-13	8.21E-10
2555	420709.6	3734835	2.47E-09	1.13E-08	2.47E-11	1.38E-08	3.39E-10	1.55E-09	3.68E-12	1.89E-09	2.08E-10	7.11E-10	8.55E-13	9.20E-10
2556	420737.1	3734835	3.53E-09	1.62E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	5.26E-12	2.70E-09	2.97E-10	1.02E-09	1.22E-12	1.31E-09
2557	420674.2	3734872	1.30E-09	5.93E-09	1.30E-11	7.24E-09	1.78E-10	8.11E-10	1.93E-12	9.90E-10	1.09E-10	3.73E-10	4.48E-13	4.82E-10
2558	420665.8	3734869	1.22E-09	5.59E-09	1.22E-11	6.83E-09	1.68E-10	7.65E-10	1.82E-12	9.34E-10	1.03E-10	3.51E-10	4.23E-13	4.55E-10
2559	420657.4	3734866	1.16E-09	5.30E-09	1.16E-11	6.47E-09	1.59E-10	7.25E-10	1.73E-12	8.85E-10	9.75E-11	3.33E-10	4.01E-13	4.31E-10
2560	420649	3734862	1.11E-09	5.05E-09	1.10E-11	6.17E-09	1.52E-10	6.91E-10	1.65E-12	8.44E-10	9.30E-11	3.18E-10	3.82E-13	4.11E-10
2561	420640.6	3734859	1.06E-09	4.83E-09	1.06E-11	5.90E-09	1.45E-10	6.61E-10	1.57E-12	8.07E-10	8.89E-11	3.04E-10	3.65E-13	3.93E-10
2562	420607	3734845	8.65E-10	3.96E-09	8.65E-12	4.83E-09	1.19E-10	5.41E-10	1.29E-12	6.61E-10	7.28E-11	2.49E-10	2.99E-13	3.22E-10
2563	420598.6	3734842	8.27E-10	3.78E-09	8.26E-12	4.61E-09	1.13E-10	5.17E-10	1.23E-12	6.31E-10	6.96E-11	2.38E-10	2.86E-13	3.07E-10
2564	420590.2	3734839	7.92E-10	3.62E-09	7.91E-12	4.42E-09	1.09E-10	4.95E-10	1.18E-12	6.05E-10	6.66E-11	2.28E-10	2.74E-13	2.94E-10
2565	420581.8	3734835	7.61E-10	3.48E-09	7.60E-12	4.25E-09	1.04E-10	4.76E-10	1.13E-12	5.81E-10	6.40E-11	2.19E-10	2.63E-13	2.83E-10
2566	420573.4	3734832	7.33E-10	3.35E-09	7.33E-12	4.09E-09	1.00E-10	4.58E-10	1.09E-12	5.60E-10	6.17E-11	2.11E-10	2.53E-13	2.73E-10
2567	420565	3734828	7.08E-10	3.24E-09	7.08E-12	3.95E-09	9.71E-11	4.43E-10	1.05E-12	5.41E-10	5.96E-11	2.03E-10	2.45E-13	2.63E-10
2568	420556.6	3734825	6.85E-10	3.13E-09	6.85E-12	3.82E-09	9.39E-11	4.28E-10	1.02E-12	5.23E-10	5.76E-11	1.97E-10	2.37E-13	2.55E-10
2569	420539.8	3734818	6.45E-10	2.95E-09	6.45E-12	3.60E-09	8.84E-11	4.03E-10	9.60E-13	4.93E-10	5.43E-11	1.85E-10	2.23E-13	2.40E-10
2570	420531.4	3734815	6.28E-10	2.87E-09	6.28E-12	3.51E-09	8.61E-11	3.93E-10	9.35E-13	4.80E-10	5.29E-11	1.81E-10	2.17E-13	2.34E-10
2571	420523	3734812	6.12E-10	2.80E-09	6.12E-12	3.42E-09	8.39E-11	3.83E-10	9.12E-13	4.68E-10	5.15E-11	1.76E-10	2.12E-13	2.28E-10
2572	420497.8	3734802	5.68E-10	2.60E-09	5.68E-12	3.17E-09	7.78E-11	3.55E-10	8.45E-13	4.34E-10	4.78E-11	1.63E-10	1.96E-13	2.11E-10
2573	420489.4	3734798	5.54E-10	2.53E-09	5.53E-12	3.09E-09	7.59E-11	3.46E-10	8.24E-13	4.23E-10	4.66E-11	1.59E-10	1.91E-13	2.06E-10
2574	420481	3734795	5.40E-10	2.47E-09	5.39E-12	3.01E-09	7.40E-11	3.37E-10	8.03E-13	4.12E-10	4.54E-11	1.55E-10	1.87E-13	2.01E-10
2575	420472.6	3734791	5.26E-10	2.40E-09	5.25E-12	2.93E-09	7.21E-11	3.29E-10	7.83E-13	4.02E-10	4.42E-11	1.51E-10	1.82E-13	1.95E-10
2576	420464.2	3734788	5.12E-10	2.34E-09	5.12E-12	2.86E-09	7.02E-11	3.20E-10	7.62E-13	3.91E-10	4.31E-11	1.47E-10	1.77E-13	1.90E-10
2577	420455.8	3734785	4.98E-10	2.28E-09	4.98E-12	2.78E-09	6.82E-11	3.11E-10	7.41E-13	3.80E-10	4.19E-11	1.43E-10	1.72E-13	1.85E-10
2578	420447.4	3734781	4.84E-10	2.21E-09	4.84E-12	2.70E-09	6.63E-11	3.03E-10	7.20E-13	3.70E-10	4.07E-11	1.39E-10	1.67E-13	1.80E-10
2579	420435.5	3734770	4.75E-10	2.17E-09	4.75E-12	2.65E-09	6.51E-11	2.97E-10	7.07E-13	3.63E-10	4.00E-11	1.36E-10	1.64E-13	1.77E-10
2580	420411.1	3734711	4.97E-10	2.27E-09	4.97E-12	2.77E-09	6.81E-11	3.11E-10	7.40E-13	3.80E-10	4.18E-11	1.43E-10	1.72E-13	1.85E-10
2581	420404.1	3734694	4.98E-10	2.28E-09	4.98E-12	2.78E-09	6.83E-11	3.12E-10	7.42E-13	3.81E-10	4.19E-11	1.43E-10	1.72E-13	1.85E-10
2582	420400.6	3734686	4.99E-10	2.28E-09	4.98E-12	2.78E-09	6.83E-11	3.12E-10	7.42E-13	3.81E-10	4.19E-11	1.43E-10	1.72E-13	1.85E-10
2583	420379.6	3734636	4.91E-10	2.24E-09	4.91E-12	2.74E-09	6.73E-11	3.07E-10	7.31E-13	3.75E-10	4.13E-11	1.41E-10	1.70E-13	1.83E-10
2584	420376.1	3734628	4.88E-10	2.23E-09	4.88E-12	2.73E-09	6.69E-11	3.05E-10	7.27E-13	3.73E-10	4.11E-11	1.40E-10	1.69E-13	1.82E-10
2585	420369.1	3734611	4.82E-10	2.20E-09	4.81E-12	2.69E-09	6.60E-11	3.01E-10	7.17E-13	3.68E-10	4.05E-11	1.38E-10	1.66E-13	1.79E-10
2586	420365.6	3734603	4.78E-10	2.18E-09	4.78E-12	2.67E-09	6.55E-11	2.99E-10	7.11E-13	3.65E-10	4.02E-11	1.37E-10	1.65E-13	1.78E-10
2587	420358.6	3734586	4.69E-10	2.14E-09	4.69E-12	2.62E-09	6.43E-11	2.93E-10	6.98E-13	3.58E-10	3.95E-11	1.35E-10	1.62E-13	1.74E-10
2588	420682.6	3734876	1.38E-09	6.30E-09	1.38E-11	7.69E-09	1.89E-10	8.61E-10	2.05E-12	1.05E-09	1.16E-10	3.96E-10	4.76E-13	5.12E-10
2589	420691.8	3734876	1.51E-09	6.93E-09	1.51E-11	8.46E-09	2.08E-10	9.47E-10	2.26E-12	1.16E-09	1.27E-10	4.35E-10	5.23E-13	5.63E-10
2590	420701	3734875	1.68E-09	7.68E-09	1.68E-11	9.38E-09	2.30E-10	1.05E-09	2.50E-12	1.28E-09	1.41E-10	4.83E-10	5.81E-13	6.25E-10
2591	420710.2	3734875	1.86E-09	8.52E-09	1.86E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.42E-09	1.57E-10	5.36E-10	6.44E-13	6.93E-10
2592	420737.7	3734875	2.57E-09	1.17E-08	2.57E-11	1.43E-08	3.52E-10	1.61E-09	3.82E-12	1.96E-09	2.16E-10	7.38E-10	8.87E-13	9.55E-10
2593	420674.7	3734912	1.03E-09	4.71E-09	1.03E-11	5.75E-09	1.41E-10	6.44E-10	1.53E-12	7.86E-10	8.66E-11	2.96E-10	3.56E-13	3.83E-10
2594	420666.2	3734909	9.70E-10	4.44E-09	9.70E-12	5.42E-09	1.33E-10	6.07E-10	1.44E-12	7.41E-10	8.16E-11	2.79E-10	3.35E-13	3.61E-10
2595	420657.7	3734905	9.20E-10	4.21E-09	9.20E-12	5.14E-09	1.26E-10	5.75E-10	1.37E-12	7.03E-10	7.74E-11	2.64E-10	3.18E-13	3.42E-10
2596	420649.2	3734902	8.79E-10	4.02E-09	8.79E-12	4.91E-09	1.21E-10	5.50E-10	1.31E-12	6.72E-10	7.40E-11	2.53E-10	3.04E-13	3.27E-10
2597	420640.6	3734899	8.43E-10	3.85E-09	8.43E-12	4.71E-09	1.16E-10	5.27E-10	1.25E-12	6.44E-10	7.09E-11	2.42E-10	2.91E-13	3.13E-10
2598	420632.1	3734895	8.11E-10	3.71E-09	8.11E-12	4.53E-09	1.11E-10	5.07E-10	1.21E-12	6.19E-10	6.82E-11	2.33E-10	2.80E-13	3.02E-10
2599	420623.6	3734892	7.81E-10	3.57E-09	7.80E-12	4.36E-09	1.07E-10	4.88E-10	1.16E-12	5.96E-10	6.57E-11	2.24E-10	2.70E-13	2.90E-10
2600	420389.7	3734756	3.95E-10	1.80E-09	3.94E-12	2.20E-09	5.41E-11	2.47E-10	5.87E-13	3.01E-10	3.32E-11	1.13E-10	1.36E-13	1.47E-10
2601	420386.2	3734747	3.96E-10	1.81E-09	3.96E-12	2.21E-09	5.43E-11	2.48E-10	5.90E-13	3.03E-10	3.33E-11	1.14E-10	1.37E-13	1.47E-10
2602	420382.6	3734739	3.97E-10	1.82E-09	3.97E-12	2.22E-09	5.45E-11	2.48E-10	5.92E-13	3.04E-10	3.34E-11	1.14E-10	1.37E-13	1.48E-10
2603	420379.1	3734730	3.98E-10	1.82E-09	3.98E-12	2.22E-09	5.46E-11	2.49E-10	5.93E-13	3.04E-10	3.35E-11	1.14E-10	1.38E-13	1.48E-10
2604	420375.5	3734722	3.99E-10	1.82E-09	3.99E-12	2.23E-09	5.47E-11	2.49E-10	5.94E-13	3.05E-10	3.35E-11	1.15E-10	1.38E-13	1.48E-10
2605	420372	3734713	3.99E-10	1.82E-09	3.99E-12	2.23E-09	5.47E-11	2.49E-10	5.94E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.48E-10
2606	420350.8	3734663	3.94E-10	1.80E-09	3.94E-12	2.20E-09	5.40E-11	2.46E-10	5.86E-13	3.01E-10	3.31E-11	1.13E-10	1.36E-13	1.46E-10
2607	420343.7	3734646	3.90E-10	1.79E-09	3.90E-12	2.18E-09	5.35E-11	2.44E-10	5.81E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
2608	420340.1	3734637	3.88E-10	1.78E-09	3.88E-12	2.17E-09	5.32E-11	2.43E-10	5.78E-13	2.97E-10	3.27E-11	1.12E-10	1.34E-13	1.44E-10
2609	420336.6	3734629	3.86E-10	1.76E-09	3.86E-12	2.15E-09	5.29E-11	2.41E-10	5.74E-13	2.95E-10	3.25E-11	1.11E-10	1.33E-13	1.43E-10
2610	420333.1	3734620	3.83E-10	1.75E-09	3.83E-12	2.14E-09	5.25E-11	2.39E-10	5.70E-13	2.93E-10	3.22E-11	1.10E-10	1.32E-13	1.42E-10
2611	420683.2	3734916	1.10E-09	5.01E-09	1.09E-11	6.11E-09	1.50E-10	6.85E-10	1.63E-12	8.37E-10	9.22E-11	3.15E-10	3.78E-13	4.07E-10
2612	420692.4	3734916	1.20E-09	5.47E-09	1.20E-11	6.67E-09	1.64E-10	7.48E-10	1.78E-12	9.13E-10	1.01E-10	3.44E-10	4.13E-13	4.45E-10
2613	420701.6	3734915	1.32E-09	6.02E-09	1.32E-11	7.35E-09	1.81E-10	8.24E-10	1.96E-12	1.01E-09	1.11E-10	3.79E-10	4.55E-13	4.90E-10
2614	420710.7	3734915	1.45E-09	6.64E-09	1.45E-11	8.11E-09	1.99E-10	9.09E-10	2.16E-12	1.11E-09	1.22E-10	4.18E-10	5.02E-13	5.40E-10
2615	420738.3	3734915	1.97E-09	9.02E-09	1.97E-11	1.10E-08	2.71E-10	1.23E-09	2.94E-12	1.51E-09	1.66E-10	5.67E-10	6.82E-13	7.34E-10
2616	420675.4	3734952	8.77E-10	4.01E-09	8.76E-12	4.89E-09	1.20E-10	5.48E-10	1.31E-12	6.70E-10	7.38E-11	2.52E-10	3.03E-13	3.26E-10
2617	420658.7	3734946	7.87E-10	3.60E-09	7.87E-12	4.39E-09	1.08E-10	4.92E-10	1.17E-12	6.01E-10	6.62E-11	2.26E-10	2.72E-13	2.93E-10
2618	420650.3	3734942	7.51E-10	3.43E-09	7.51E-12	4.19E-09	1.03E-10	4.69E-10	1.12E-12	5.74E-10	6.32E-11	2.16E-10	2.59E-13	2.79E-10
2619	420633.6	3734936	6.88E-10	3.15E-09	6.88E-12	3.84E-09	9.43E-11	4.30E-10	1.02E-12	5.26E-10	5.79E-11	1.98E-10	2.38E-13	2.56E-10
2620	420616.9	3734929	6.33E-10	2.89E-09	6.33E-12	3.53E-09	8.68E-11	3.96E-10	9.42E-13	4.84E-10	5.33E-11	1.82E-10	2.19E-13	2.35E-10
2621	420575.1	3734912	5.22E-10	2.39E-09	5.22E-12	2.91E-09	7.16E-11	3.26E-10	7.77E-13	3.99E-10	4.39E-11	1.50E-10	1.80E-13	1.94E-10
2622	420558.4	3734905	4.90E-10	2.24E-09	4.90E-12	2.73E-09	6.71E-11	3.06E-10	7.29E-13	3.74E-10	4.12E-11	1.41E-10	1.69E-13	1.82E-10
2623	420541.7	3734899	4.63E-10	2.12E-09	4.63E-12	2.59E-09	6.35E-11	2.90E-10	6.89E-13	3.54E-10	3.90E-11	1.33E-10	1.60E-13	1.72E-10
2624	420533.3	3734895	4.51E-10	2.06E-09	4.51E-12	2.52E-09	6.19E-11	2.82E-10	6.72E-13	3.45E-10	3.80E-11	1.30E-10	1.56E-13	1.68E-10

2625	420516.6	3734889	4.31E-10	1.97E-09	4.31E-12	2.41E-09	5.91E-11	2.69E-10	6.41E-13	3.29E-10	3.63E-11	1.24E-10	1.49E-13	1.60E-10
2626	420499.9	3734882	4.13E-10	1.89E-09	4.13E-12	2.31E-09	5.66E-11	2.58E-10	6.15E-13	3.15E-10	3.47E-11	1.19E-10	1.43E-13	1.54E-10
2627	420458.1	3734865	3.74E-10	1.71E-09	3.74E-12	2.09E-09	5.12E-11	2.34E-10	5.56E-13	2.86E-10	3.15E-11	1.07E-10	1.29E-13	1.39E-10
2628	420441.4	3734858	3.59E-10	1.64E-09	3.59E-12	2.00E-09	4.92E-11	2.24E-10	5.34E-13	2.74E-10	3.02E-11	1.03E-10	1.24E-13	1.33E-10
2629	420399.6	3734842	3.22E-10	1.47E-09	3.22E-12	1.80E-09	4.42E-11	2.01E-10	4.80E-13	2.46E-10	2.71E-11	9.26E-11	1.11E-13	1.20E-10
2630	420351.6	3734760	3.24E-10	1.48E-09	3.24E-12	1.81E-09	4.44E-11	2.03E-10	4.82E-13	2.47E-10	2.73E-11	9.31E-11	1.12E-13	1.20E-10
2631	420344.6	3734743	3.25E-10	1.48E-09	3.25E-12	1.81E-09	4.45E-11	2.03E-10	4.83E-13	2.48E-10	2.73E-11	9.33E-11	1.12E-13	1.21E-10
2632	420320.3	3734685	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.41E-11	2.01E-10	4.79E-13	2.46E-10	2.70E-11	9.24E-11	1.11E-13	1.20E-10
2633	420313.3	3734669	3.19E-10	1.46E-09	3.19E-12	1.78E-09	4.38E-11	2.00E-10	4.75E-13	2.44E-10	2.69E-11	9.17E-11	1.10E-13	1.19E-10
2634	420683.8	3734956	9.28E-10	4.24E-09	9.27E-12	5.18E-09	1.27E-10	5.80E-10	1.38E-12	7.09E-10	7.81E-11	2.67E-10	3.21E-13	3.45E-10
2635	420693	3734956	1.01E-09	4.60E-09	1.00E-11	5.61E-09	1.38E-10	6.28E-10	1.50E-12	7.68E-10	8.46E-11	2.89E-10	3.47E-13	3.74E-10
2636	420702.1	3734955	1.09E-09	4.99E-09	1.09E-11	6.09E-09	1.50E-10	6.83E-10	1.63E-12	8.34E-10	9.18E-11	3.14E-10	3.77E-13	4.06E-10
2637	420711.3	3734955	1.19E-09	5.43E-09	1.19E-11	6.62E-09	1.63E-10	7.42E-10	1.77E-12	9.06E-10	9.98E-11	3.41E-10	4.10E-13	4.41E-10
2638	420729.7	3734955	1.42E-09	6.48E-09	1.42E-11	7.91E-09	1.94E-10	8.85E-10	2.11E-12	1.08E-09	1.19E-10	4.07E-10	4.89E-13	5.27E-10
2639	420738.9	3734955	1.55E-09	7.10E-09	1.55E-11	8.67E-09	2.13E-10	9.71E-10	2.31E-12	1.19E-09	1.31E-10	4.46E-10	5.37E-13	5.78E-10
2640	420675.9	3734992	7.49E-10	3.42E-09	7.49E-12	4.18E-09	1.03E-10	4.68E-10	1.11E-12	5.72E-10	6.30E-11	2.15E-10	2.59E-13	2.78E-10
2641	420667.4	3734989	7.10E-10	3.25E-09	7.10E-12	3.96E-09	9.73E-11	4.44E-10	1.06E-12	5.42E-10	5.97E-11	2.04E-10	2.45E-13	2.64E-10
2642	420659	3734986	6.73E-10	3.08E-09	6.73E-12	3.76E-09	9.23E-11	4.21E-10	1.00E-12	5.14E-10	5.66E-11	1.93E-10	2.33E-13	2.50E-10
2643	420650.5	3734982	6.38E-10	2.92E-09	6.38E-12	3.56E-09	8.75E-11	3.99E-10	9.50E-13	4.87E-10	5.37E-11	1.83E-10	2.21E-13	2.37E-10
2644	420642.1	3734979	6.06E-10	2.77E-09	6.06E-12	3.38E-09	8.31E-11	3.79E-10	9.02E-13	4.63E-10	5.10E-11	1.74E-10	2.09E-13	2.25E-10
2645	420633.6	3734975	5.77E-10	2.64E-09	5.77E-12	3.22E-09	7.91E-11	3.61E-10	8.59E-13	4.41E-10	4.86E-11	1.66E-10	2.00E-13	2.15E-10
2646	420625.2	3734972	5.55E-10	2.54E-09	5.55E-12	3.10E-09	7.61E-11	3.47E-10	8.27E-13	4.24E-10	4.67E-11	1.60E-10	1.92E-13	2.07E-10
2647	420616.7	3734969	5.39E-10	2.47E-09	5.39E-12	3.01E-09	7.39E-11	3.37E-10	8.03E-13	4.12E-10	4.54E-11	1.55E-10	1.86E-13	2.01E-10
2648	420608.3	3734965	5.19E-10	2.37E-09	5.18E-12	2.90E-09	7.11E-11	3.24E-10	7.72E-13	3.96E-10	4.36E-11	1.49E-10	1.79E-13	1.93E-10
2649	420599.8	3734962	4.98E-10	2.28E-09	4.98E-12	2.78E-09	6.83E-11	3.12E-10	7.42E-13	3.81E-10	4.19E-11	1.43E-10	1.72E-13	1.85E-10
2650	420591.4	3734958	4.80E-10	2.19E-09	4.79E-12	2.68E-09	6.57E-11	3.00E-10	7.14E-13	3.66E-10	4.04E-11	1.38E-10	1.66E-13	1.78E-10
2651	420557.6	3734945	4.19E-10	1.92E-09	4.19E-12	2.34E-09	5.75E-11	2.62E-10	6.24E-13	3.20E-10	3.53E-11	1.20E-10	1.45E-13	1.56E-10
2652	420549.1	3734941	4.07E-10	1.86E-09	4.07E-12	2.27E-09	5.58E-11	2.55E-10	6.06E-13	3.11E-10	3.43E-11	1.17E-10	1.41E-13	1.51E-10
2653	420540.7	3734938	3.94E-10	1.80E-09	3.94E-12	2.20E-09	5.40E-11	2.46E-10	5.87E-13	3.01E-10	3.32E-11	1.13E-10	1.36E-13	1.47E-10
2654	420532.2	3734935	3.83E-10	1.75E-09	3.83E-12	2.14E-09	5.26E-11	2.40E-10	5.71E-13	2.93E-10	3.23E-11	1.10E-10	1.32E-13	1.43E-10
2655	420523.8	3734931	3.74E-10	1.71E-09	3.74E-12	2.09E-09	5.12E-11	2.34E-10	5.56E-13	2.86E-10	3.15E-11	1.07E-10	1.29E-13	1.39E-10
2656	420515.3	3734928	3.65E-10	1.67E-09	3.65E-12	2.04E-09	5.00E-11	2.28E-10	5.43E-13	2.79E-10	3.07E-11	1.05E-10	1.26E-13	1.36E-10
2657	420506.9	3734924	3.58E-10	1.63E-09	3.57E-12	2.00E-09	4.90E-11	2.24E-10	5.32E-13	2.73E-10	3.01E-11	1.03E-10	1.24E-13	1.33E-10
2658	420498.4	3734921	3.51E-10	1.61E-09	3.51E-12	1.96E-09	4.82E-11	2.20E-10	5.23E-13	2.68E-10	2.96E-11	1.01E-10	1.21E-13	1.31E-10
2659	420490	3734918	3.45E-10	1.58E-09	3.45E-12	1.93E-09	4.74E-11	2.16E-10	5.14E-13	2.64E-10	2.91E-11	9.93E-11	1.19E-13	1.28E-10
2660	420481.5	3734914	3.40E-10	1.55E-09	3.39E-12	1.90E-09	4.65E-11	2.12E-10	5.05E-13	2.59E-10	2.86E-11	9.76E-11	1.17E-13	1.26E-10
2661	420473.1	3734911	3.34E-10	1.53E-09	3.34E-12	1.87E-09	4.58E-11	2.09E-10	4.98E-13	2.55E-10	2.81E-11	9.61E-11	1.16E-13	1.24E-10
2662	420456.2	3734904	3.24E-10	1.48E-09	3.24E-12	1.81E-09	4.44E-11	2.02E-10	4.82E-13	2.47E-10	2.72E-11	9.30E-11	1.12E-13	1.20E-10
2663	420447.7	3734901	3.18E-10	1.45E-09	3.18E-12	1.77E-09	4.36E-11	1.99E-10	4.73E-13	2.43E-10	2.67E-11	9.14E-11	1.10E-13	1.18E-10
2664	420439.3	3734897	3.12E-10	1.43E-09	3.12E-12	1.74E-09	4.27E-11	1.95E-10	4.64E-13	2.38E-10	2.62E-11	8.96E-11	1.08E-13	1.16E-10
2665	420430.8	3734894	3.05E-10	1.40E-09	3.05E-12	1.70E-09	4.19E-11	1.91E-10	4.55E-13	2.33E-10	2.57E-11	8.78E-11	1.06E-13	1.14E-10
2666	420422.4	3734891	2.99E-10	1.37E-09	2.99E-12	1.67E-09	4.10E-11	1.87E-10	4.46E-13	2.29E-10	2.52E-11	8.60E-11	1.03E-13	1.11E-10
2667	420351.3	3734855	2.56E-10	1.17E-09	2.56E-12	1.43E-09	3.51E-11	1.60E-10	3.81E-13	1.96E-10	2.16E-11	7.36E-11	8.85E-14	9.53E-11
2668	420330.2	3734805	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.97E-13	2.04E-10	2.24E-11	7.67E-11	9.22E-14	9.92E-11
2669	420323.1	3734788	2.68E-10	1.23E-09	2.68E-12	1.50E-09	3.68E-11	1.68E-10	3.99E-13	2.05E-10	2.26E-11	7.71E-11	9.27E-14	9.97E-11
2670	420319.6	3734779	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.68E-11	1.68E-10	4.00E-13	2.05E-10	2.26E-11	7.72E-11	9.28E-14	9.99E-11
2671	420291.5	3734712	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.98E-13	2.04E-10	2.25E-11	7.68E-11	9.24E-14	9.94E-11
2672	420288	3734704	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.97E-13	2.04E-10	2.24E-11	7.66E-11	9.21E-14	9.91E-11
2673	420284.5	3734695	2.66E-10	1.22E-09	2.66E-12	1.48E-09	3.64E-11	1.66E-10	3.96E-13	2.03E-10	2.24E-11	7.64E-11	9.19E-14	9.88E-11
2674	420277.4	3734679	2.64E-10	1.21E-09	2.64E-12	1.47E-09	3.62E-11	1.65E-10	3.93E-13	2.01E-10	2.22E-11	7.58E-11	9.12E-14	9.81E-11
2675	420684.4	3734996	7.91E-10	3.62E-09	7.90E-12	4.41E-09	1.08E-10	4.94E-10	1.18E-12	6.04E-10	6.65E-11	2.27E-10	2.73E-13	2.94E-10
2676	420693.5	3734996	8.53E-10	3.90E-09	8.52E-12	4.76E-09	1.17E-10	5.33E-10	1.27E-12	6.51E-10	7.17E-11	2.45E-10	2.95E-13	3.17E-10
2677	420702.7	3734995	9.20E-10	4.21E-09	9.20E-12	5.14E-09	1.26E-10	5.75E-10	1.37E-12	7.03E-10	7.74E-11	2.64E-10	3.18E-13	3.42E-10
2678	420711.9	3734995	9.93E-10	4.54E-09	9.93E-12	5.55E-09	1.36E-10	6.21E-10	1.48E-12	7.59E-10	8.36E-11	2.85E-10	3.43E-13	3.69E-10
2679	420730.3	3734995	1.16E-09	5.31E-09	1.16E-11	6.48E-09	1.59E-10	7.25E-10	1.73E-12	8.86E-10	9.76E-11	3.33E-10	4.01E-13	4.31E-10
2680	420739.5	3734995	1.25E-09	5.73E-09	1.25E-11	7.00E-09	1.72E-10	7.84E-10	1.87E-12	9.58E-10	1.06E-10	3.60E-10	4.33E-13	4.66E-10
2681	420676.6	3735032	6.35E-10	2.90E-09	6.34E-12	3.54E-09	8.70E-11	3.97E-10	9.45E-13	4.85E-10	5.34E-11	1.82E-10	2.19E-13	2.36E-10
2682	420659.9	3735026	5.78E-10	2.64E-09	5.78E-12	3.23E-09	7.92E-11	3.61E-10	8.60E-13	4.42E-10	4.86E-11	1.66E-10	2.00E-13	2.15E-10
2683	420651.6	3735022	5.52E-10	2.52E-09	5.51E-12	3.08E-09	7.56E-11	3.45E-10	8.21E-13	4.21E-10	4.64E-11	1.58E-10	1.91E-13	2.05E-10
2684	420634.9	3735016	5.02E-10	2.30E-09	5.02E-12	2.80E-09	6.88E-11	3.14E-10	7.48E-13	3.84E-10	4.22E-11	1.44E-10	1.74E-13	1.87E-10
2685	420618.3	3735009	4.69E-10	2.14E-09	4.68E-12	2.62E-09	6.42E-11	2.93E-10	6.98E-13	3.58E-10	3.94E-11	1.35E-10	1.62E-13	1.74E-10
2686	420610	3735006	4.51E-10	2.06E-09	4.50E-12	2.52E-09	6.18E-11	2.82E-10	6.71E-13	3.44E-10	3.79E-11	1.30E-10	1.56E-13	1.68E-10
2687	420593.3	3734999	4.19E-10	1.91E-09	4.19E-12	2.34E-09	5.74E-11	2.62E-10	6.23E-13	3.20E-10	3.52E-11	1.20E-10	1.45E-13	1.56E-10
2688	420585	3734996	4.05E-10	1.85E-09	4.04E-12	2.26E-09	5.55E-11	2.53E-10	6.02E-13	3.09E-10	3.40E-11	1.16E-10	1.40E-13	1.50E-10
2689	420543.3	3734979	3.48E-10	1.59E-09	3.48E-12	1.94E-09	4.77E-11	2.17E-10	5.18E-13	2.66E-10	2.93E-11	9.99E-11	1.20E-13	1.29E-10
2690	420526.6	3734972	3.30E-10	1.51E-09	3.30E-12	1.84E-09	4.52E-11	2.06E-10	4.91E-13	2.52E-10	2.77E-11	9.47E-11	1.14E-13	1.23E-10
2691	420518.3	3734969	3.20E-10	1.46E-09	3.20E-12	1.78E-09	4.38E-11	2.00E-10	4.76E-13	2.44E-10	2.69E-11	9.19E-11	1.10E-13	1.19E-10
2692	420501.6	3734962	3.06E-10	1.40E-09	3.06E-12	1.71E-09	4.19E-11	1.91E-10	4.55E-13	2.33E-10	2.57E-11	8.78E-11	1.06E-13	1.14E-10
2693	420485	3734955	2.96E-10	1.35E-09	2.96E-12	1.65E-09	4.06E-11	1.85E-10	4.41E-13	2.26E-10	2.49E-11	8.51E-11	1.02E-13	1.10E-10
2694	420476.7	3734952	2.92E-10	1.34E-09	2.92E-12	1.63E-09	4.00E-11	1.83E-10	4.35E-13	2.23E-10	2.46E-11	8.39E-11	1.01E-13	1.09E-10
2695	420460	3734945	2.85E-10	1.30E-09	2.85E-12	1.59E-09	3.91E-11	1.78E-10	4.25E-13	2.18E-10	2.40E-11	8.20E-11	9.86E-14	1.06E-10
2696	420435	3734935	2.72E-10	1.24E-09	2.72E-12	1.52E-09	3.73E-11	1.70E-10	4.05E-13	2.08E-10	2.29E-11	7.81E-11	9.40E-14	1.01E-10
2697	420418.3	3734929	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.59E-11	1.64E-10	3.90E-13	2.00E-10	2.20E-11	7.52E-11	9.04E-14	9.73E-11

2698	420410	3734925	2.57E-10	1.17E-09	2.57E-12	1.43E-09	3.52E-11	1.61E-10	3.82E-13	1.96E-10	2.16E-11	7.38E-11	8.88E-14	9.55E-11
2699	420323.2	3734884	2.17E-10	9.92E-10	2.17E-12	1.21E-09	2.97E-11	1.36E-10	3.23E-13	1.66E-10	1.82E-11	6.23E-11	7.50E-14	8.07E-11
2700	420302.4	3734834	2.24E-10	1.03E-09	2.24E-12	1.25E-09	3.08E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.45E-11	7.75E-14	8.34E-11
2701	420299	3734826	2.25E-10	1.03E-09	2.24E-12	1.25E-09	3.08E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.45E-11	7.76E-14	8.35E-11
2702	420292	3734809	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.09E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.47E-11	7.78E-14	8.37E-11
2703	420285.1	3734792	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.09E-11	1.41E-10	3.36E-13	1.72E-10	1.90E-11	6.48E-11	7.79E-14	8.38E-11
2704	420253.9	3734718	2.24E-10	1.02E-09	2.24E-12	1.25E-09	3.07E-11	1.40E-10	3.33E-13	1.71E-10	1.88E-11	6.43E-11	7.74E-14	8.33E-11
2705	420247	3734701	2.23E-10	1.02E-09	2.22E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.39E-11	7.69E-14	8.27E-11
2706	420222.7	3734643	2.15E-10	9.81E-10	2.14E-12	1.20E-09	2.94E-11	1.34E-10	3.19E-13	1.64E-10	1.80E-11	6.16E-11	7.41E-14	7.98E-11
2707	420219.3	3734635	2.13E-10	9.74E-10	2.13E-12	1.19E-09	2.92E-11	1.33E-10	3.17E-13	1.63E-10	1.79E-11	6.12E-11	7.36E-14	7.92E-11
2708	420684.9	3735036	6.66E-10	3.04E-09	6.65E-12	3.72E-09	9.13E-11	4.16E-10	9.91E-13	5.08E-10	5.60E-11	1.91E-10	2.30E-13	2.48E-10
2709	420694.1	3735036	7.14E-10	3.26E-09	7.13E-12	3.98E-09	9.78E-11	4.46E-10	1.06E-12	5.45E-10	6.01E-11	2.05E-10	2.47E-13	2.65E-10
2710	420703.3	3735035	7.66E-10	3.50E-09	7.66E-12	4.28E-09	1.05E-10	4.79E-10	1.14E-12	5.85E-10	6.44E-11	2.20E-10	2.65E-13	2.85E-10
2711	420712.5	3735035	8.23E-10	3.76E-09	8.22E-12	4.59E-09	1.13E-10	5.14E-10	1.22E-12	6.28E-10	6.92E-11	2.36E-10	2.84E-13	3.06E-10
2712	420730.9	3735035	9.50E-10	4.34E-09	9.49E-12	5.30E-09	1.30E-10	5.94E-10	1.41E-12	7.25E-10	7.99E-11	2.73E-10	3.28E-13	3.53E-10
2713	420677.1	3735072	5.38E-10	2.46E-09	5.38E-12	3.00E-09	7.37E-11	3.36E-10	8.01E-13	4.11E-10	4.52E-11	1.55E-10	1.86E-13	2.00E-10
2714	420668.7	3735069	5.15E-10	2.36E-09	5.15E-12	2.88E-09	7.07E-11	3.22E-10	7.67E-13	3.94E-10	4.34E-11	1.48E-10	1.78E-13	1.92E-10
2715	420660.3	3735066	4.94E-10	2.26E-09	4.94E-12	2.76E-09	6.78E-11	3.09E-10	7.36E-13	3.78E-10	4.16E-11	1.42E-10	1.71E-13	1.84E-10
2716	420651.9	3735062	4.75E-10	2.17E-09	4.74E-12	2.65E-09	6.51E-11	2.97E-10	7.06E-13	3.62E-10	3.99E-11	1.36E-10	1.64E-13	1.76E-10
2717	420643.5	3735059	4.55E-10	2.08E-09	4.55E-12	2.54E-09	6.24E-11	2.85E-10	6.78E-13	3.48E-10	3.83E-11	1.31E-10	1.57E-13	1.69E-10
2718	420635	3735055	4.37E-10	2.00E-09	4.37E-12	2.44E-09	5.99E-11	2.73E-10	6.50E-13	3.34E-10	3.68E-11	1.26E-10	1.51E-13	1.62E-10
2719	420626.6	3735052	4.22E-10	1.93E-09	4.22E-12	2.36E-09	5.78E-11	2.64E-10	6.28E-13	3.22E-10	3.55E-11	1.21E-10	1.46E-13	1.57E-10
2720	420618.2	3735049	4.07E-10	1.86E-09	4.07E-12	2.27E-09	5.58E-11	2.54E-10	6.06E-13	3.11E-10	3.42E-11	1.17E-10	1.41E-13	1.51E-10
2721	420609.8	3735045	3.92E-10	1.79E-09	3.92E-12	2.19E-09	5.38E-11	2.45E-10	5.84E-13	3.00E-10	3.30E-11	1.13E-10	1.36E-13	1.46E-10
2722	420270.6	3734853	1.92E-10	8.79E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.86E-13	1.47E-10	1.62E-11	5.52E-11	6.64E-14	7.15E-11
2723	420267.1	3734845	1.93E-10	8.81E-10	1.93E-12	1.08E-09	2.64E-11	1.20E-10	2.87E-13	1.47E-10	1.62E-11	5.54E-11	6.66E-14	7.16E-11
2724	420260.1	3734828	1.93E-10	8.83E-10	1.93E-12	1.08E-09	2.65E-11	1.21E-10	2.87E-13	1.47E-10	1.62E-11	5.55E-11	6.67E-14	7.18E-11
2725	420232.1	3734761	1.92E-10	8.80E-10	1.92E-12	1.07E-09	2.64E-11	1.20E-10	2.87E-13	1.47E-10	1.62E-11	5.53E-11	6.65E-14	7.16E-11
2726	420228.6	3734753	1.92E-10	8.78E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.86E-13	1.47E-10	1.62E-11	5.52E-11	6.64E-14	7.14E-11
2727	420218.1	3734728	1.90E-10	8.71E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.84E-13	1.45E-10	1.60E-11	5.47E-11	6.58E-14	7.08E-11
2728	420193.7	3734670	1.85E-10	8.45E-10	1.85E-12	1.03E-09	2.53E-11	1.16E-10	2.75E-13	1.41E-10	1.55E-11	5.31E-11	6.38E-14	6.87E-11
2729	420186.7	3734653	1.83E-10	8.34E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.72E-13	1.39E-10	1.54E-11	5.24E-11	6.31E-14	6.79E-11
2730	420179.7	3734636	1.80E-10	8.23E-10	1.80E-12	1.01E-09	2.47E-11	1.13E-10	2.68E-13	1.38E-10	1.52E-11	5.18E-11	6.22E-14	6.70E-11
2731	420685.5	3735076	5.61E-10	2.57E-09	5.61E-12	3.13E-09	7.70E-11	3.51E-10	8.36E-13	4.29E-10	4.72E-11	1.61E-10	1.94E-13	2.09E-10
2732	420694.7	3735076	5.99E-10	2.74E-09	5.99E-12	3.34E-09	8.21E-11	3.74E-10	8.92E-13	4.57E-10	5.04E-11	1.72E-10	2.07E-13	2.23E-10
2733	420703.9	3735075	6.40E-10	2.93E-09	6.39E-12	3.57E-09	8.77E-11	4.00E-10	9.52E-13	4.89E-10	5.38E-11	1.84E-10	2.21E-13	2.38E-10
2734	420731.4	3735075	7.82E-10	3.58E-09	7.82E-12	4.37E-09	1.07E-10	4.89E-10	1.16E-12	5.97E-10	6.58E-11	2.25E-10	2.70E-13	2.91E-10
2735	420740.6	3735075	8.36E-10	3.82E-09	8.36E-12	4.67E-09	1.15E-10	5.23E-10	1.25E-12	6.39E-10	7.04E-11	2.40E-10	2.89E-13	3.11E-10
2736	420643.7	3735099	3.92E-10	1.79E-09	3.92E-12	2.19E-09	5.38E-11	2.45E-10	5.84E-13	3.00E-10	3.30E-11	1.13E-10	1.36E-13	1.46E-10
2737	420635.2	3735095	3.79E-10	1.73E-09	3.79E-12	2.12E-09	5.20E-11	2.37E-10	5.65E-13	2.90E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
2738	420626.7	3735092	3.68E-10	1.68E-09	3.68E-12	2.05E-09	5.04E-11	2.30E-10	5.48E-13	2.81E-10	3.09E-11	1.06E-10	1.27E-13	1.37E-10
2739	420618.2	3735088	3.56E-10	1.63E-09	3.56E-12	1.99E-09	4.89E-11	2.23E-10	5.31E-13	2.72E-10	3.00E-11	1.02E-10	1.23E-13	1.33E-10
2740	420609.8	3735085	3.44E-10	1.57E-09	3.44E-12	1.92E-09	4.71E-11	2.15E-10	5.12E-13	2.63E-10	2.89E-11	9.88E-11	1.19E-13	1.28E-10
2741	420601.3	3735082	3.32E-10	1.52E-09	3.32E-12	1.85E-09	4.55E-11	2.08E-10	4.95E-13	2.54E-10	2.80E-11	9.55E-11	1.15E-13	1.24E-10
2742	420592.8	3735078	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.40E-11	2.01E-10	4.78E-13	2.45E-10	2.70E-11	9.23E-11	1.11E-13	1.19E-10
2743	420584.3	3735075	3.11E-10	1.42E-09	3.11E-12	1.74E-09	4.26E-11	1.94E-10	4.63E-13	2.37E-10	2.62E-11	8.93E-11	1.07E-13	1.16E-10
2744	420575.8	3735071	3.01E-10	1.38E-09	3.01E-12	1.68E-09	4.13E-11	1.88E-10	4.49E-13	2.30E-10	2.54E-11	8.66E-11	1.04E-13	1.12E-10
2745	420567.4	3735068	2.92E-10	1.34E-09	2.92E-12	1.63E-09	4.01E-11	1.83E-10	4.35E-13	2.23E-10	2.46E-11	8.40E-11	1.01E-13	1.09E-10
2746	420558.9	3735065	2.84E-10	1.30E-09	2.84E-12	1.59E-09	3.89E-11	1.78E-10	4.23E-13	2.17E-10	2.39E-11	8.16E-11	9.82E-14	1.06E-10
2747	420550.4	3735061	2.76E-10	1.26E-09	2.76E-12	1.54E-09	3.79E-11	1.73E-10	4.11E-13	2.11E-10	2.33E-11	7.94E-11	9.55E-14	1.03E-10
2748	420541.9	3735058	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.69E-11	1.68E-10	4.01E-13	2.06E-10	2.27E-11	7.74E-11	9.30E-14	1.00E-10
2749	420516.5	3735048	2.51E-10	1.15E-09	2.51E-12	1.40E-09	3.44E-11	1.57E-10	3.73E-13	1.92E-10	2.11E-11	7.21E-11	8.67E-14	9.32E-11
2750	420508	3735044	2.45E-10	1.12E-09	2.45E-12	1.37E-09	3.36E-11	1.53E-10	3.65E-13	1.87E-10	2.06E-11	7.05E-11	8.48E-14	9.13E-11
2751	420499.5	3735041	2.40E-10	1.10E-09	2.40E-12	1.34E-09	3.28E-11	1.50E-10	3.57E-13	1.83E-10	2.02E-11	6.89E-11	8.28E-14	8.91E-11
2752	420491	3735037	2.34E-10	1.07E-09	2.34E-12	1.31E-09	3.21E-11	1.46E-10	3.49E-13	1.79E-10	1.97E-11	6.73E-11	8.09E-14	8.71E-11
2753	420482.6	3735034	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.14E-11	1.43E-10	3.41E-13	1.75E-10	1.93E-11	6.58E-11	7.91E-14	8.51E-11
2754	420474.1	3735031	2.25E-10	1.03E-09	2.24E-12	1.25E-09	3.08E-11	1.40E-10	3.34E-13	1.71E-10	1.89E-11	6.45E-11	7.76E-14	8.35E-11
2755	420465.6	3735027	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.33E-11	7.62E-14	8.20E-11
2756	420457.1	3735024	2.17E-10	9.91E-10	2.17E-12	1.21E-09	2.97E-11	1.35E-10	3.23E-13	1.65E-10	1.82E-11	6.23E-11	7.49E-14	8.06E-11
2757	420448.6	3735020	2.13E-10	9.76E-10	2.13E-12	1.19E-09	2.93E-11	1.33E-10	3.18E-13	1.63E-10	1.80E-11	6.13E-11	7.37E-14	7.93E-11
2758	420440.2	3735017	2.11E-10	9.65E-10	2.11E-12	1.18E-09	2.89E-11	1.32E-10	3.14E-13	1.61E-10	1.78E-11	6.06E-11	7.29E-14	7.85E-11
2759	420431.7	3735014	2.09E-10	9.54E-10	2.09E-12	1.16E-09	2.86E-11	1.30E-10	3.11E-13	1.59E-10	1.76E-11	6.00E-11	7.21E-14	7.76E-11
2760	420423.2	3735010	2.06E-10	9.43E-10	2.06E-12	1.15E-09	2.83E-11	1.29E-10	3.07E-13	1.58E-10	1.74E-11	5.93E-11	7.13E-14	7.67E-11
2761	420414.7	3735007	2.04E-10	9.34E-10	2.04E-12	1.14E-09	2.80E-11	1.28E-10	3.04E-13	1.56E-10	1.72E-11	5.87E-11	7.06E-14	7.60E-11
2762	420406.2	3735003	2.03E-10	9.27E-10	2.03E-12	1.13E-09	2.78E-11	1.27E-10	3.02E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.54E-11
2763	420397.7	3735000	2.01E-10	9.20E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	2.99E-13	1.54E-10	1.69E-11	5.78E-11	6.95E-14	7.48E-11
2764	420389.3	3734997	1.98E-10	9.07E-10	1.98E-12	1.11E-09	2.72E-11	1.24E-10	2.95E-13	1.52E-10	1.67E-11	5.70E-11	6.86E-14	7.38E-11
2765	420380.8	3734993	1.96E-10	8.95E-10	1.96E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.65E-11	5.62E-11	6.76E-14	7.28E-11
2766	420372.3	3734990	1.93E-10	8.83E-10	1.93E-12	1.08E-09	2.65E-11	1.21E-10	2.87E-13	1.47E-10	1.62E-11	5.55E-11	6.67E-14	7.18E-11
2767	420363.8	3734986	1.90E-10	8.70E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.47E-11	6.58E-14	7.08E-11
2768	420287.5	3734956	1.66E-10	7.57E-10	1.65E-12	9.24E-10	2.27E-11	1.04E-10	2.46E-13	1.26E-10	1.39E-11	4.76E-11	5.72E-14	6.16E-11
2769	420279	3734952	1.62E-10	7.43E-10	1.62E-12	9.07E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.67E-11	5.61E-14	6.04E-11
2770	420267	3734940	1.60E-10	7.33E-10	1.60E-12	8.95E-10	2.20E-11	1.00E-10	2.39E-13	1.22E-10	1.35E-11	4.61E-11	5.54E-14	5.96E-11

2771	420263.5	3734932	1.61E-10	7.37E-10	1.61E-12	9.00E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.63E-11	5.57E-14	6.00E-11
2772	420224.7	3734839	1.67E-10	7.64E-10	1.67E-12	9.32E-10	2.29E-11	1.04E-10	2.49E-13	1.28E-10	1.41E-11	4.80E-11	5.77E-14	6.21E-11
2773	420203.5	3734789	1.66E-10	7.61E-10	1.66E-12	9.29E-10	2.28E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.78E-11	5.75E-14	6.19E-11
2774	420200	3734780	1.66E-10	7.60E-10	1.66E-12	9.27E-10	2.28E-11	1.04E-10	2.47E-13	1.27E-10	1.40E-11	4.77E-11	5.74E-14	6.18E-11
2775	420196.5	3734772	1.66E-10	7.58E-10	1.66E-12	9.25E-10	2.27E-11	1.04E-10	2.47E-13	1.27E-10	1.39E-11	4.76E-11	5.73E-14	6.16E-11
2776	420192.9	3734763	1.65E-10	7.55E-10	1.65E-12	9.22E-10	2.26E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.75E-11	5.71E-14	6.14E-11
2777	420161.2	3734687	1.60E-10	7.30E-10	1.60E-12	8.92E-10	2.19E-11	9.99E-11	2.38E-13	1.22E-10	1.34E-11	4.59E-11	5.52E-14	5.94E-11
2778	420157.6	3734679	1.59E-10	7.27E-10	1.59E-12	8.87E-10	2.18E-11	9.94E-11	2.37E-13	1.21E-10	1.34E-11	4.57E-11	5.49E-14	5.91E-11
2779	420150.6	3734662	1.57E-10	7.19E-10	1.57E-12	8.77E-10	2.15E-11	9.83E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.43E-14	5.84E-11
2780	420147.1	3734654	1.56E-10	7.14E-10	1.56E-12	8.72E-10	2.14E-11	9.77E-11	2.33E-13	1.19E-10	1.31E-11	4.49E-11	5.40E-14	5.81E-11
2781	420143.5	3734645	1.55E-10	7.10E-10	1.55E-12	8.67E-10	2.13E-11	9.71E-11	2.31E-13	1.19E-10	1.31E-11	4.46E-11	5.37E-14	5.77E-11
2782	420678.3	3735152	3.93E-10	1.79E-09	3.92E-12	2.19E-09	5.38E-11	2.45E-10	5.84E-13	3.00E-10	3.30E-11	1.13E-10	1.36E-13	1.46E-10
2783	420661.5	3735146	3.64E-10	1.67E-09	3.64E-12	2.03E-09	4.99E-11	2.28E-10	5.42E-13	2.78E-10	3.07E-11	1.05E-10	1.26E-13	1.35E-10
2784	420644.8	3735139	3.41E-10	1.56E-09	3.41E-12	1.90E-09	4.67E-11	2.13E-10	5.08E-13	2.60E-10	2.87E-11	9.80E-11	1.18E-13	1.27E-10
2785	420628	3735132	3.20E-10	1.46E-09	3.20E-12	1.79E-09	4.39E-11	2.00E-10	4.77E-13	2.45E-10	2.69E-11	9.20E-11	1.11E-13	1.19E-10
2786	420611.2	3735125	3.03E-10	1.39E-09	3.03E-12	1.69E-09	4.16E-11	1.90E-10	4.52E-13	2.32E-10	2.55E-11	8.72E-11	1.05E-13	1.13E-10
2787	420602.9	3735122	2.96E-10	1.35E-09	2.96E-12	1.65E-09	4.06E-11	1.85E-10	4.40E-13	2.26E-10	2.49E-11	8.50E-11	1.02E-13	1.10E-10
2788	420586.1	3735115	2.78E-10	1.27E-09	2.78E-12	1.55E-09	3.81E-11	1.74E-10	4.14E-13	2.12E-10	2.34E-11	7.98E-11	9.60E-14	1.03E-10
2789	420569.3	3735109	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.59E-11	1.64E-10	3.90E-13	2.00E-10	2.20E-11	7.53E-11	9.06E-14	9.74E-11
2790	420561	3735105	2.55E-10	1.16E-09	2.55E-12	1.42E-09	3.49E-11	1.59E-10	3.79E-13	1.95E-10	2.14E-11	7.32E-11	8.80E-14	9.47E-11
2791	420552.6	3735102	2.48E-10	1.13E-09	2.48E-12	1.38E-09	3.40E-11	1.55E-10	3.69E-13	1.89E-10	2.09E-11	7.13E-11	8.57E-14	9.22E-11
2792	420535.8	3735095	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.23E-11	1.47E-10	3.51E-13	1.80E-10	1.98E-11	6.78E-11	8.15E-14	8.77E-11
2793	420502.3	3735082	2.13E-10	9.76E-10	2.13E-12	1.19E-09	2.93E-11	1.33E-10	3.18E-13	1.63E-10	1.80E-11	6.13E-11	7.38E-14	7.94E-11
2794	420493.9	3735078	2.10E-10	9.58E-10	2.09E-12	1.17E-09	2.87E-11	1.31E-10	3.12E-13	1.60E-10	1.76E-11	6.02E-11	7.24E-14	7.79E-11
2795	420485.5	3735075	2.06E-10	9.41E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.06E-13	1.57E-10	1.73E-11	5.91E-11	7.11E-14	7.65E-11
2796	420477.1	3735072	2.02E-10	9.24E-10	2.02E-12	1.13E-09	2.77E-11	1.26E-10	3.01E-13	1.54E-10	1.70E-11	5.81E-11	6.98E-14	7.52E-11
2797	420460.4	3735065	1.95E-10	8.93E-10	1.95E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.64E-11	5.61E-11	6.75E-14	7.26E-11
2798	420443.6	3735058	1.90E-10	8.69E-10	1.90E-12	1.06E-09	2.60E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.46E-11	6.56E-14	7.06E-11
2799	420426.9	3735051	1.87E-10	8.53E-10	1.86E-12	1.04E-09	2.56E-11	1.17E-10	2.78E-13	1.42E-10	1.57E-11	5.36E-11	6.45E-14	6.94E-11
2800	420410.1	3735045	1.83E-10	8.34E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.72E-13	1.39E-10	1.54E-11	5.24E-11	6.31E-14	6.79E-11
2801	420401.7	3735041	1.80E-10	8.25E-10	1.80E-12	1.01E-09	2.47E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.19E-11	6.24E-14	6.71E-11
2802	420384.9	3735035	1.77E-10	8.07E-10	1.76E-12	9.85E-10	2.42E-11	1.10E-10	2.63E-13	1.35E-10	1.49E-11	5.07E-11	6.10E-14	6.56E-11
2803	420368.2	3735028	1.72E-10	7.88E-10	1.72E-12	9.62E-10	2.36E-11	1.08E-10	2.56E-13	1.32E-10	1.45E-11	4.95E-11	5.95E-14	6.41E-11
2804	420359.8	3735024	1.70E-10	7.79E-10	1.70E-12	9.51E-10	2.33E-11	1.06E-10	2.54E-13	1.30E-10	1.43E-11	4.89E-11	5.88E-14	6.33E-11
2805	420351.4	3735021	1.69E-10	7.71E-10	1.69E-12	9.41E-10	2.31E-11	1.05E-10	2.51E-13	1.29E-10	1.42E-11	4.85E-11	5.83E-14	6.27E-11
2806	420334.7	3735014	1.64E-10	7.51E-10	1.64E-12	9.17E-10	2.25E-11	1.03E-10	2.45E-13	1.25E-10	1.38E-11	4.72E-11	5.68E-14	6.11E-11
2807	420259.2	3734984	1.44E-10	6.58E-10	1.44E-12	8.03E-10	1.97E-11	9.00E-11	2.14E-13	1.10E-10	1.21E-11	4.13E-11	4.97E-14	5.35E-11
2808	420239	3734969	1.40E-10	6.41E-10	1.40E-12	7.83E-10	1.92E-11	8.76E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.84E-14	5.21E-11
2809	420232	3734952	1.42E-10	6.48E-10	1.42E-12	7.91E-10	1.94E-11	8.86E-11	2.11E-13	1.08E-10	1.19E-11	4.07E-11	4.90E-14	5.27E-11
2810	420211.1	3734902	1.44E-10	6.60E-10	1.44E-12	8.05E-10	1.98E-11	9.02E-11	2.15E-13	1.10E-10	1.21E-11	4.15E-11	4.99E-14	5.37E-11
2811	420204.1	3734886	1.44E-10	6.59E-10	1.44E-12	8.05E-10	1.98E-11	9.02E-11	2.15E-13	1.10E-10	1.21E-11	4.14E-11	4.98E-14	5.36E-11
2812	420200.6	3734877	1.44E-10	6.60E-10	1.44E-12	8.06E-10	1.98E-11	9.03E-11	2.15E-13	1.10E-10	1.21E-11	4.15E-11	4.99E-14	5.37E-11
2813	420172.7	3734811	1.45E-10	6.63E-10	1.45E-12	8.09E-10	1.99E-11	9.06E-11	2.16E-13	1.11E-10	1.22E-11	4.16E-11	5.01E-14	5.39E-11
2814	420169.2	3734802	1.45E-10	6.62E-10	1.45E-12	8.08E-10	1.98E-11	9.05E-11	2.15E-13	1.11E-10	1.22E-11	4.16E-11	5.00E-14	5.38E-11
2815	420162.3	3734786	1.44E-10	6.59E-10	1.44E-12	8.04E-10	1.98E-11	9.01E-11	2.15E-13	1.10E-10	1.21E-11	4.14E-11	4.98E-14	5.36E-11
2816	420158.8	3734777	1.44E-10	6.57E-10	1.44E-12	8.03E-10	1.97E-11	8.99E-11	2.14E-13	1.10E-10	1.21E-11	4.13E-11	4.97E-14	5.35E-11
2817	420134.4	3734719	1.41E-10	6.43E-10	1.41E-12	7.85E-10	1.93E-11	8.79E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
2818	420127.4	3734702	1.39E-10	6.37E-10	1.39E-12	7.78E-10	1.91E-11	8.71E-11	2.07E-13	1.06E-10	1.17E-11	4.00E-11	4.82E-14	5.18E-11
2819	420120.4	3734686	1.38E-10	6.31E-10	1.38E-12	7.71E-10	1.89E-11	8.63E-11	2.06E-13	1.05E-10	1.16E-11	3.97E-11	4.77E-14	5.13E-11
2820	420113.5	3734669	1.37E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.54E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.72E-14	5.08E-11
2821	420106.5	3734652	1.35E-10	6.17E-10	1.35E-12	7.53E-10	1.85E-11	8.43E-11	2.01E-13	1.03E-10	1.13E-11	3.88E-11	4.66E-14	5.02E-11
2822	420103	3734644	1.34E-10	6.13E-10	1.34E-12	7.48E-10	1.84E-11	8.38E-11	2.00E-13	1.02E-10	1.13E-11	3.85E-11	4.63E-14	4.99E-11
2823	420096	3734627	1.32E-10	6.04E-10	1.32E-12	7.38E-10	1.81E-11	8.27E-11	1.97E-13	1.01E-10	1.11E-11	3.80E-11	4.57E-14	4.92E-11
2824	420686.7	3735156	4.08E-10	1.86E-09	4.08E-12	2.28E-09	5.59E-11	2.55E-10	6.07E-13	3.12E-10	3.43E-11	1.17E-10	1.41E-13	1.52E-10
2825	420695.9	3735156	4.32E-10	1.98E-09	4.32E-12	2.41E-09	5.93E-11	2.70E-10	6.43E-13	3.30E-10	3.64E-11	1.24E-10	1.49E-13	1.61E-10
2826	420705	3735155	4.59E-10	2.10E-09	4.59E-12	2.56E-09	6.29E-11	2.87E-10	6.83E-13	3.51E-10	3.86E-11	1.32E-10	1.59E-13	1.71E-10
2827	420714.2	3735155	4.88E-10	2.23E-09	4.88E-12	2.73E-09	6.69E-11	3.05E-10	7.27E-13	3.73E-10	4.11E-11	1.40E-10	1.69E-13	1.82E-10
2828	420732.6	3735155	5.51E-10	2.52E-09	5.51E-12	3.08E-09	7.56E-11	3.45E-10	8.21E-13	4.21E-10	4.64E-11	1.58E-10	1.90E-13	2.05E-10
2829	420741.8	3735155	5.86E-10	2.68E-09	5.85E-12	3.27E-09	8.03E-11	3.66E-10	8.72E-13	4.47E-10	4.93E-11	1.68E-10	2.02E-13	2.18E-10
2830	420678.8	3735192	3.45E-10	1.58E-09	3.45E-12	1.93E-09	4.74E-11	2.16E-10	5.14E-13	2.64E-10	2.91E-11	9.93E-11	1.19E-13	1.28E-10
2831	420670.4	3735189	3.33E-10	1.52E-09	3.33E-12	1.86E-09	4.57E-11	2.08E-10	4.96E-13	2.55E-10	2.80E-11	9.58E-11	1.15E-13	1.24E-10
2832	420661.9	3735186	3.22E-10	1.47E-09	3.22E-12	1.80E-09	4.41E-11	2.01E-10	4.79E-13	2.46E-10	2.71E-11	9.24E-11	1.11E-13	1.20E-10
2833	420653.5	3735182	3.12E-10	1.42E-09	3.11E-12	1.74E-09	4.27E-11	1.95E-10	4.64E-13	2.38E-10	2.62E-11	8.95E-11	1.08E-13	1.16E-10
2834	420645	3735179	3.02E-10	1.38E-09	3.02E-12	1.69E-09	4.14E-11	1.89E-10	4.50E-13	2.31E-10	2.54E-11	8.69E-11	1.04E-13	1.12E-10
2835	420636.6	3735175	2.94E-10	1.34E-09	2.93E-12	1.64E-09	4.02E-11	1.84E-10	4.37E-13	2.24E-10	2.47E-11	8.43E-11	1.01E-13	1.09E-10
2836	420628.1	3735172	2.85E-10	1.30E-09	2.85E-12	1.59E-09	3.91E-11	1.78E-10	4.24E-13	2.18E-10	2.40E-11	8.19E-11	9.85E-14	1.06E-10
2837	420619.7	3735169	2.76E-10	1.26E-09	2.76E-12	1.54E-09	3.79E-11	1.73E-10	4.11E-13	2.11E-10	2.32E-11	7.94E-11	9.54E-14	1.03E-10
2838	420611.3	3735165	2.68E-10	1.22E-09	2.68E-12	1.50E-09	3.67E-11	1.67E-10	3.99E-13	2.05E-10	2.25E-11	7.70E-11	9.26E-14	9.96E-11
2839	420602.8	3735162	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.57E-11	1.63E-10	3.87E-13	1.99E-10	2.19E-11	7.47E-11	8.99E-14	9.67E-11
2840	420594.4	3735158	2.53E-10	1.16E-09	2.53E-12	1.41E-09	3.47E-11	1.58E-10	3.76E-13	1.93E-10	2.13E-11	7.27E-11	8.74E-14	9.40E-11
2841	420585.9	3735155	2.47E-10	1.13E-09	2.46E-12	1.38E-09	3.38E-11	1.54E-10	3.67E-13	1.88E-10	2.07E-11	7.08E-11	8.52E-14	9.17E-11
2842	420577.5	3735152	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.93E-11	8.33E-14	8.97E-11
2843	420569	3735148	2.35E-10	1.07E-09	2.34E-12	1.31E-09	3.22E-11	1.47E-10	3.49E-13	1.79E-10	1.97E-11	6.74E-11	8.11E-14	8.72E-11

2844	420560.6	3735145	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.13E-11	1.43E-10	3.40E-13	1.74E-10	1.92E-11	6.56E-11	7.89E-14	8.49E-11
2845	420552.1	3735141	2.22E-10	1.02E-09	2.22E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.39E-11	7.69E-14	8.27E-11
2846	420543.7	3735138	2.17E-10	9.92E-10	2.17E-12	1.21E-09	2.97E-11	1.36E-10	3.23E-13	1.66E-10	1.82E-11	6.23E-11	7.50E-14	8.07E-11
2847	420535.3	3735135	2.11E-10	9.65E-10	2.11E-12	1.18E-09	2.89E-11	1.32E-10	3.14E-13	1.61E-10	1.78E-11	6.07E-11	7.30E-14	7.85E-11
2848	420526.8	3735131	2.06E-10	9.40E-10	2.05E-12	1.15E-09	2.82E-11	1.28E-10	3.06E-13	1.57E-10	1.73E-11	5.91E-11	7.10E-14	7.64E-11
2849	420518.4	3735128	2.00E-10	9.15E-10	2.00E-12	1.12E-09	2.74E-11	1.25E-10	2.98E-13	1.53E-10	1.68E-11	5.75E-11	6.92E-14	7.44E-11
2850	420509.9	3735124	1.95E-10	8.92E-10	1.95E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.64E-11	5.61E-11	6.75E-14	7.26E-11
2851	420484.6	3735114	1.84E-10	8.40E-10	1.84E-12	1.03E-09	2.52E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.28E-11	6.35E-14	6.83E-11
2852	420476.2	3735111	1.81E-10	8.27E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.20E-11	6.25E-14	6.73E-11
2853	420467.7	3735108	1.79E-10	8.17E-10	1.79E-12	9.98E-10	2.45E-11	1.12E-10	2.66E-13	1.37E-10	1.50E-11	5.14E-11	6.18E-14	6.65E-11
2854	420459.3	3735104	1.77E-10	8.07E-10	1.76E-12	9.86E-10	2.42E-11	1.10E-10	2.63E-13	1.35E-10	1.49E-11	5.07E-11	6.10E-14	6.57E-11
2855	420450.8	3735101	1.74E-10	7.97E-10	1.74E-12	9.74E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.01E-11	6.03E-14	6.49E-11
2856	420442.4	3735097	1.72E-10	7.88E-10	1.72E-12	9.62E-10	2.36E-11	1.08E-10	2.56E-13	1.32E-10	1.45E-11	4.95E-11	5.95E-14	6.41E-11
2857	420433.9	3735094	1.70E-10	7.79E-10	1.70E-12	9.51E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.43E-11	4.90E-11	5.89E-14	6.33E-11
2858	420425.5	3735091	1.69E-10	7.71E-10	1.68E-12	9.41E-10	2.31E-11	1.05E-10	2.51E-13	1.29E-10	1.42E-11	4.84E-11	5.82E-14	6.27E-11
2859	420417	3735087	1.67E-10	7.62E-10	1.67E-12	9.31E-10	2.29E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.79E-11	5.76E-14	6.20E-11
2860	420408.6	3735084	1.65E-10	7.53E-10	1.65E-12	9.20E-10	2.26E-11	1.03E-10	2.45E-13	1.26E-10	1.39E-11	4.73E-11	5.69E-14	6.12E-11
2861	420400.2	3735080	1.63E-10	7.45E-10	1.63E-12	9.09E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.68E-11	5.63E-14	6.06E-11
2862	420391.7	3735077	1.61E-10	7.36E-10	1.61E-12	8.99E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.35E-11	4.63E-11	5.56E-14	5.99E-11
2863	420383.3	3735074	1.59E-10	7.28E-10	1.59E-12	8.89E-10	2.18E-11	9.96E-11	2.37E-13	1.22E-10	1.34E-11	4.58E-11	5.51E-14	5.92E-11
2864	420374.8	3735070	1.58E-10	7.21E-10	1.58E-12	8.81E-10	2.16E-11	9.87E-11	2.35E-13	1.21E-10	1.33E-11	4.53E-11	5.45E-14	5.87E-11
2865	420366.4	3735067	1.56E-10	7.14E-10	1.56E-12	8.72E-10	2.14E-11	9.77E-11	2.33E-13	1.19E-10	1.31E-11	4.49E-11	5.40E-14	5.81E-11
2866	420357.9	3735063	1.54E-10	7.06E-10	1.54E-12	8.62E-10	2.12E-11	9.66E-11	2.30E-13	1.18E-10	1.30E-11	4.44E-11	5.34E-14	5.74E-11
2867	420349.5	3735060	1.53E-10	6.98E-10	1.53E-12	8.52E-10	2.09E-11	9.55E-11	2.27E-13	1.17E-10	1.28E-11	4.39E-11	5.28E-14	5.68E-11
2868	420341	3735057	1.51E-10	6.90E-10	1.51E-12	8.42E-10	2.07E-11	9.43E-11	2.25E-13	1.15E-10	1.27E-11	4.34E-11	5.21E-14	5.61E-11
2869	420332.6	3735053	1.49E-10	6.82E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
2870	420324.2	3735050	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.21E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.48E-11
2871	420315.7	3735046	1.46E-10	6.65E-10	1.45E-12	8.12E-10	1.99E-11	9.10E-11	2.17E-13	1.11E-10	1.22E-11	4.18E-11	5.03E-14	5.41E-11
2872	420307.3	3735043	1.44E-10	6.57E-10	1.44E-12	8.03E-10	1.97E-11	8.99E-11	2.14E-13	1.10E-10	1.21E-11	4.13E-11	4.97E-14	5.35E-11
2873	420298.8	3735040	1.42E-10	6.49E-10	1.42E-12	7.92E-10	1.95E-11	8.87E-11	2.11E-13	1.08E-10	1.19E-11	4.08E-11	4.91E-14	5.28E-11
2874	420290.4	3735036	1.40E-10	6.41E-10	1.40E-12	7.83E-10	1.92E-11	8.76E-11	2.09E-13	1.07E-10	1.18E-11	4.03E-11	4.84E-14	5.21E-11
2875	420281.9	3735033	1.38E-10	6.33E-10	1.38E-12	7.72E-10	1.90E-11	8.65E-11	2.06E-13	1.06E-10	1.16E-11	3.98E-11	4.78E-14	5.14E-11
2876	420273.5	3735030	1.37E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.54E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.72E-14	5.08E-11
2877	420265	3735026	1.35E-10	6.16E-10	1.35E-12	7.52E-10	1.85E-11	8.42E-11	2.00E-13	1.03E-10	1.13E-11	3.87E-11	4.65E-14	5.01E-11
2878	420256.6	3735023	1.33E-10	6.07E-10	1.33E-12	7.42E-10	1.82E-11	8.31E-11	1.98E-13	1.01E-10	1.12E-11	3.82E-11	4.59E-14	4.94E-11
2879	420248.2	3735019	1.31E-10	5.99E-10	1.31E-12	7.31E-10	1.80E-11	8.19E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.53E-14	4.87E-11
2880	420239.7	3735016	1.29E-10	5.90E-10	1.29E-12	7.21E-10	1.77E-11	8.07E-11	1.92E-13	9.86E-11	1.09E-11	3.71E-11	4.46E-14	4.80E-11
2881	420231.3	3735013	1.27E-10	5.82E-10	1.27E-12	7.10E-10	1.74E-11	7.95E-11	1.89E-13	9.72E-11	1.07E-11	3.66E-11	4.40E-14	4.73E-11
2882	420222.8	3735009	1.25E-10	5.73E-10	1.25E-12	6.99E-10	1.72E-11	7.83E-11	1.86E-13	9.56E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
2883	420210.9	3734997	1.24E-10	5.66E-10	1.24E-12	6.91E-10	1.70E-11	7.74E-11	1.84E-13	9.45E-11	1.04E-11	3.56E-11	4.28E-14	4.60E-11
2884	420207.4	3734989	1.24E-10	5.69E-10	1.24E-12	6.94E-10	1.71E-11	7.78E-11	1.85E-13	9.50E-11	1.05E-11	3.57E-11	4.30E-14	4.63E-11
2885	420203.8	3734981	1.25E-10	5.71E-10	1.25E-12	6.98E-10	1.71E-11	7.81E-11	1.86E-13	9.55E-11	1.05E-11	3.59E-11	4.32E-14	4.65E-11
2886	420196.8	3734964	1.26E-10	5.76E-10	1.26E-12	7.04E-10	1.73E-11	7.88E-11	1.88E-13	9.63E-11	1.06E-11	3.62E-11	4.36E-14	4.69E-11
2887	420189.8	3734947	1.27E-10	5.80E-10	1.27E-12	7.08E-10	1.74E-11	7.93E-11	1.89E-13	9.69E-11	1.07E-11	3.65E-11	4.38E-14	4.72E-11
2888	420182.8	3734930	1.27E-10	5.82E-10	1.27E-12	7.11E-10	1.75E-11	7.96E-11	1.90E-13	9.73E-11	1.07E-11	3.66E-11	4.40E-14	4.74E-11
2889	420179.3	3734922	1.28E-10	5.84E-10	1.28E-12	7.12E-10	1.75E-11	7.98E-11	1.90E-13	9.75E-11	1.07E-11	3.67E-11	4.41E-14	4.75E-11
2890	420172.2	3734905	1.28E-10	5.86E-10	1.28E-12	7.15E-10	1.76E-11	8.01E-11	1.91E-13	9.78E-11	1.08E-11	3.68E-11	4.43E-14	4.76E-11
2891	420165.2	3734888	1.28E-10	5.87E-10	1.28E-12	7.17E-10	1.76E-11	8.03E-11	1.91E-13	9.81E-11	1.08E-11	3.69E-11	4.44E-14	4.77E-11
2892	420133.6	3734813	1.27E-10	5.81E-10	1.27E-12	7.10E-10	1.74E-11	7.95E-11	1.89E-13	9.71E-11	1.07E-11	3.65E-11	4.39E-14	4.73E-11
2893	420130.1	3734804	1.27E-10	5.80E-10	1.27E-12	7.08E-10	1.74E-11	7.93E-11	1.89E-13	9.69E-11	1.07E-11	3.65E-11	4.38E-14	4.72E-11
2894	420098.5	3734729	1.22E-10	5.60E-10	1.22E-12	6.84E-10	1.68E-11	7.66E-11	1.82E-13	9.35E-11	1.03E-11	3.52E-11	4.23E-14	4.55E-11
2895	420091.4	3734712	1.21E-10	5.53E-10	1.21E-12	6.75E-10	1.66E-11	7.56E-11	1.80E-13	9.24E-11	1.02E-11	3.47E-11	4.18E-14	4.50E-11
2896	420087.9	3734704	1.20E-10	5.50E-10	1.20E-12	6.71E-10	1.65E-11	7.52E-11	1.79E-13	9.18E-11	1.01E-11	3.45E-11	4.15E-14	4.47E-11
2897	420080.9	3734687	1.20E-10	5.47E-10	1.20E-12	6.68E-10	1.64E-11	7.48E-11	1.78E-13	9.14E-11	1.01E-11	3.44E-11	4.13E-14	4.45E-11
2898	420073.9	3734670	1.19E-10	5.45E-10	1.19E-12	6.65E-10	1.63E-11	7.45E-11	1.77E-13	9.10E-11	1.00E-11	3.42E-11	4.12E-14	4.43E-11
2899	420066.9	3734653	1.18E-10	5.39E-10	1.18E-12	6.58E-10	1.62E-11	7.37E-11	1.75E-13	9.00E-11	9.91E-12	3.39E-11	4.07E-14	4.38E-11
2900	420063.3	3734645	1.17E-10	5.35E-10	1.17E-12	6.54E-10	1.61E-11	7.32E-11	1.74E-13	8.94E-11	9.85E-12	3.37E-11	4.05E-14	4.35E-11
2901	420056.3	3734628	1.16E-10	5.28E-10	1.16E-12	6.45E-10	1.58E-11	7.23E-11	1.72E-13	8.83E-11	9.72E-12	3.32E-11	3.99E-14	4.30E-11
2902	420687.3	3735196	3.58E-10	1.64E-09	3.58E-12	2.00E-09	4.91E-11	2.24E-10	5.33E-13	2.73E-10	3.01E-11	1.03E-10	1.24E-13	1.33E-10
2903	420696.4	3735196	3.78E-10	1.73E-09	3.78E-12	2.11E-09	5.18E-11	2.36E-10	5.63E-13	2.89E-10	3.18E-11	1.09E-10	1.31E-13	1.41E-10
2904	420705.6	3735195	4.00E-10	1.83E-09	4.00E-12	2.23E-09	5.48E-11	2.50E-10	5.95E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.49E-10
2905	420733.2	3735195	4.79E-10	2.19E-09	4.78E-12	2.67E-09	6.56E-11	2.99E-10	7.12E-13	3.65E-10	4.03E-11	1.38E-10	1.65E-13	1.78E-10
2906	420742.4	3735195	5.10E-10	2.33E-09	5.09E-12	2.85E-09	6.99E-11	3.19E-10	7.59E-13	3.89E-10	4.29E-11	1.46E-10	1.76E-13	1.90E-10
2907	420679.3	3735232	3.08E-10	1.41E-09	3.08E-12	1.72E-09	4.22E-11	1.92E-10	4.58E-13	2.35E-10	2.59E-11	8.85E-11	1.06E-13	1.14E-10
2908	420670.8	3735229	2.98E-10	1.36E-09	2.97E-12	1.66E-09	4.08E-11	1.86E-10	4.43E-13	2.27E-10	2.50E-11	8.55E-11	1.03E-13	1.11E-10
2909	420662.3	3735225	2.88E-10	1.32E-09	2.88E-12	1.61E-09	3.95E-11	1.80E-10	4.29E-13	2.20E-10	2.42E-11	8.28E-11	9.95E-14	1.07E-10
2910	420653.8	3735222	2.79E-10	1.28E-09	2.79E-12	1.56E-09	3.83E-11	1.75E-10	4.16E-13	2.13E-10	2.35E-11	8.02E-11	9.65E-14	1.04E-10
2911	420645.3	3735219	2.71E-10	1.24E-09	2.71E-12	1.51E-09	3.71E-11	1.69E-10	4.03E-13	2.07E-10	2.28E-11	7.79E-11	9.36E-14	1.01E-10
2912	420636.8	3735215	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.61E-11	1.64E-10	3.92E-13	2.01E-10	2.21E-11	7.56E-11	9.09E-14	9.78E-11
2913	420628.3	3735212	2.56E-10	1.17E-09	2.55E-12	1.43E-09	3.50E-11	1.60E-10	3.80E-13	1.95E-10	2.15E-11	7.34E-11	8.83E-14	9.50E-11
2914	420619.8	3735208	2.48E-10	1.14E-09	2.48E-12	1.39E-09	3.41E-11	1.55E-10	3.70E-13	1.90E-10	2.09E-11	7.14E-11	8.59E-14	9.24E-11
2915	420611.3	3735205	2.42E-10	1.10E-09	2.42E-12	1.35E-09	3.31E-11	1.51E-10	3.60E-13	1.85E-10	2.03E-11	6.94E-11	8.35E-14	8.98E-11
2916	420602.8	3735202	2.35E-10	1.08E-09	2.35E-12	1.31E-09	3.22E-11	1.47E-10	3.50E-13	1.80E-10	1.98E-11	6.76E-11	8.13E-14	8.74E-11

2917	420594.3	3735198	2.29E-10	1.05E-09	2.29E-12	1.28E-09	3.13E-11	1.43E-10	3.40E-13	1.75E-10	1.92E-11	6.57E-11	7.90E-14	8.50E-11
2918	420585.8	3735195	2.22E-10	1.02E-09	2.22E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.38E-11	7.68E-14	8.26E-11
2919	420577.3	3735191	2.16E-10	9.88E-10	2.16E-12	1.21E-09	2.96E-11	1.35E-10	3.22E-13	1.65E-10	1.82E-11	6.21E-11	7.47E-14	8.03E-11
2920	420568.8	3735188	2.10E-10	9.61E-10	2.10E-12	1.17E-09	2.88E-11	1.31E-10	3.13E-13	1.61E-10	1.77E-11	6.04E-11	7.27E-14	7.82E-11
2921	420560.3	3735184	2.05E-10	9.37E-10	2.05E-12	1.14E-09	2.81E-11	1.28E-10	3.05E-13	1.56E-10	1.72E-11	5.89E-11	7.08E-14	7.62E-11
2922	420551.8	3735181	2.00E-10	9.13E-10	2.00E-12	1.11E-09	2.74E-11	1.25E-10	2.97E-13	1.53E-10	1.68E-11	5.74E-11	6.90E-14	7.43E-11
2923	420543.3	3735178	1.95E-10	8.91E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.60E-11	6.74E-14	7.25E-11
2924	420534.8	3735174	1.90E-10	8.70E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.47E-11	6.58E-14	7.08E-11
2925	420526.3	3735171	1.86E-10	8.50E-10	1.86E-12	1.04E-09	2.55E-11	1.16E-10	2.77E-13	1.42E-10	1.56E-11	5.34E-11	6.42E-14	6.91E-11
2926	420517.8	3735167	1.82E-10	8.30E-10	1.81E-12	1.01E-09	2.49E-11	1.14E-10	2.70E-13	1.39E-10	1.53E-11	5.22E-11	6.27E-14	6.75E-11
2927	420509.3	3735164	1.77E-10	8.11E-10	1.77E-12	9.91E-10	2.43E-11	1.11E-10	2.64E-13	1.36E-10	1.49E-11	5.10E-11	6.13E-14	6.60E-11
2928	420500.8	3735161	1.74E-10	7.94E-10	1.74E-12	9.70E-10	2.38E-11	1.09E-10	2.59E-13	1.33E-10	1.46E-11	4.99E-11	6.00E-14	6.46E-11
2929	420466.8	3735147	1.62E-10	7.43E-10	1.62E-12	9.07E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.67E-11	5.61E-14	6.04E-11
2930	420458.3	3735144	1.60E-10	7.34E-10	1.60E-12	8.96E-10	2.20E-11	1.00E-10	2.39E-13	1.23E-10	1.35E-11	4.61E-11	5.54E-14	5.97E-11
2931	420449.8	3735140	1.59E-10	7.25E-10	1.59E-12	8.86E-10	2.18E-11	9.92E-11	2.36E-13	1.21E-10	1.33E-11	4.56E-11	5.48E-14	5.90E-11
2932	420441.3	3735137	1.57E-10	7.17E-10	1.57E-12	8.75E-10	2.15E-11	9.80E-11	2.33E-13	1.20E-10	1.32E-11	4.50E-11	5.42E-14	5.83E-11
2933	420432.8	3735133	1.55E-10	7.09E-10	1.55E-12	8.65E-10	2.13E-11	9.69E-11	2.31E-13	1.18E-10	1.30E-11	4.46E-11	5.36E-14	5.76E-11
2934	420424.3	3735130	1.53E-10	7.01E-10	1.53E-12	8.56E-10	2.10E-11	9.59E-11	2.28E-13	1.17E-10	1.29E-11	4.41E-11	5.30E-14	5.70E-11
2935	420415.8	3735126	1.52E-10	6.93E-10	1.52E-12	8.46E-10	2.08E-11	9.48E-11	2.26E-13	1.16E-10	1.28E-11	4.36E-11	5.24E-14	5.64E-11
2936	420407.3	3735123	1.50E-10	6.85E-10	1.50E-12	8.36E-10	2.05E-11	9.37E-11	2.23E-13	1.14E-10	1.26E-11	4.30E-11	5.18E-14	5.57E-11
2937	420398.8	3735120	1.48E-10	6.77E-10	1.48E-12	8.27E-10	2.03E-11	9.26E-11	2.20E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
2938	420390.3	3735116	1.46E-10	6.70E-10	1.46E-12	8.18E-10	2.01E-11	9.16E-11	2.18E-13	1.12E-10	1.23E-11	4.21E-11	5.06E-14	5.45E-11
2939	420381.8	3735113	1.45E-10	6.62E-10	1.45E-12	8.09E-10	1.99E-11	9.06E-11	2.16E-13	1.11E-10	1.22E-11	4.16E-11	5.01E-14	5.39E-11
2940	420373.3	3735109	1.43E-10	6.54E-10	1.43E-12	7.99E-10	1.96E-11	8.94E-11	2.13E-13	1.09E-10	1.20E-11	4.11E-11	4.94E-14	5.32E-11
2941	420364.8	3735106	1.41E-10	6.46E-10	1.41E-12	7.89E-10	1.94E-11	8.83E-11	2.10E-13	1.08E-10	1.19E-11	4.06E-11	4.88E-14	5.25E-11
2942	420356.3	3735103	1.40E-10	6.39E-10	1.40E-12	7.81E-10	1.92E-11	8.74E-11	2.08E-13	1.07E-10	1.18E-11	4.02E-11	4.83E-14	5.20E-11
2943	420347.8	3735099	1.39E-10	6.34E-10	1.39E-12	7.74E-10	1.90E-11	8.67E-11	2.06E-13	1.06E-10	1.17E-11	3.98E-11	4.79E-14	5.16E-11
2944	420339.3	3735096	1.37E-10	6.28E-10	1.37E-12	7.66E-10	1.88E-11	8.58E-11	2.04E-13	1.05E-10	1.16E-11	3.95E-11	4.75E-14	5.11E-11
2945	420330.8	3735092	1.36E-10	6.21E-10	1.36E-12	7.58E-10	1.86E-11	8.49E-11	2.02E-13	1.04E-10	1.14E-11	3.90E-11	4.69E-14	5.05E-11
2946	420322.3	3735089	1.34E-10	6.14E-10	1.34E-12	7.50E-10	1.84E-11	8.40E-11	2.00E-13	1.03E-10	1.13E-11	3.86E-11	4.64E-14	5.00E-11
2947	420313.8	3735085	1.33E-10	6.08E-10	1.33E-12	7.42E-10	1.82E-11	8.31E-11	1.98E-13	1.02E-10	1.12E-11	3.82E-11	4.59E-14	4.94E-11
2948	420305.3	3735082	1.31E-10	6.01E-10	1.31E-12	7.34E-10	1.80E-11	8.22E-11	1.96E-13	1.00E-10	1.11E-11	3.78E-11	4.54E-14	4.89E-11
2949	420296.8	3735079	1.30E-10	5.94E-10	1.30E-12	7.26E-10	1.78E-11	8.13E-11	1.93E-13	9.93E-11	1.09E-11	3.73E-11	4.49E-14	4.83E-11
2950	420288.3	3735075	1.28E-10	5.87E-10	1.28E-12	7.17E-10	1.76E-11	8.03E-11	1.91E-13	9.81E-11	1.08E-11	3.69E-11	4.44E-14	4.78E-11
2951	420279.8	3735072	1.27E-10	5.80E-10	1.27E-12	7.08E-10	1.74E-11	7.94E-11	1.89E-13	9.69E-11	1.07E-11	3.65E-11	4.39E-14	4.72E-11
2952	420271.3	3735068	1.25E-10	5.74E-10	1.25E-12	7.00E-10	1.72E-11	7.84E-11	1.87E-13	9.58E-11	1.06E-11	3.60E-11	4.34E-14	4.66E-11
2953	420262.8	3735065	1.24E-10	5.67E-10	1.24E-12	6.92E-10	1.70E-11	7.75E-11	1.84E-13	9.47E-11	1.04E-11	3.56E-11	4.28E-14	4.61E-11
2954	420254.3	3735062	1.22E-10	5.60E-10	1.22E-12	6.83E-10	1.68E-11	7.65E-11	1.82E-13	9.35E-11	1.03E-11	3.52E-11	4.23E-14	4.55E-11
2955	420245.8	3735058	1.21E-10	5.53E-10	1.21E-12	6.75E-10	1.66E-11	7.56E-11	1.80E-13	9.23E-11	1.02E-11	3.47E-11	4.18E-14	4.49E-11
2956	420237.3	3735055	1.19E-10	5.46E-10	1.19E-12	6.66E-10	1.64E-11	7.46E-11	1.78E-13	9.12E-11	1.00E-11	3.43E-11	4.12E-14	4.44E-11
2957	420228.8	3735051	1.18E-10	5.38E-10	1.18E-12	6.57E-10	1.61E-11	7.36E-11	1.75E-13	8.99E-11	9.91E-12	3.38E-11	4.07E-14	4.38E-11
2958	420220.3	3735048	1.16E-10	5.31E-10	1.16E-12	6.49E-10	1.59E-11	7.27E-11	1.73E-13	8.88E-11	9.78E-12	3.34E-11	4.02E-14	4.32E-11
2959	420211.8	3735045	1.15E-10	5.24E-10	1.15E-12	6.40E-10	1.57E-11	7.17E-11	1.71E-13	8.76E-11	9.65E-12	3.30E-11	3.96E-14	4.27E-11
2960	420203.3	3735041	1.13E-10	5.17E-10	1.13E-12	6.31E-10	1.55E-11	7.07E-11	1.68E-13	8.64E-11	9.52E-12	3.25E-11	3.91E-14	4.21E-11
2961	420194.8	3735038	1.12E-10	5.10E-10	1.12E-12	6.23E-10	1.53E-11	6.98E-11	1.66E-13	8.52E-11	9.39E-12	3.21E-11	3.86E-14	4.15E-11
2962	420182.8	3735026	1.11E-10	5.05E-10	1.10E-12	6.17E-10	1.52E-11	6.91E-11	1.65E-13	8.44E-11	9.30E-12	3.18E-11	3.82E-14	4.11E-11
2963	420175.7	3735009	1.11E-10	5.09E-10	1.11E-12	6.22E-10	1.53E-11	6.97E-11	1.66E-13	8.51E-11	9.37E-12	3.20E-11	3.85E-14	4.14E-11
2964	420172.2	3735000	1.12E-10	5.11E-10	1.12E-12	6.23E-10	1.53E-11	6.98E-11	1.66E-13	8.53E-11	9.39E-12	3.21E-11	3.86E-14	4.15E-11
2965	420168.6	3734992	1.12E-10	5.12E-10	1.12E-12	6.26E-10	1.54E-11	7.01E-11	1.67E-13	8.56E-11	9.43E-12	3.22E-11	3.87E-14	4.17E-11
2966	420165.1	3734984	1.12E-10	5.14E-10	1.12E-12	6.28E-10	1.54E-11	7.03E-11	1.67E-13	8.59E-11	9.46E-12	3.23E-11	3.88E-14	4.18E-11
2967	420158	3734967	1.13E-10	5.17E-10	1.13E-12	6.31E-10	1.55E-11	7.07E-11	1.68E-13	8.64E-11	9.51E-12	3.25E-11	3.91E-14	4.20E-11
2968	420154.5	3734958	1.13E-10	5.19E-10	1.13E-12	6.33E-10	1.56E-11	7.09E-11	1.69E-13	8.67E-11	9.55E-12	3.26E-11	3.92E-14	4.22E-11
2969	420150.9	3734950	1.14E-10	5.20E-10	1.14E-12	6.35E-10	1.56E-11	7.12E-11	1.69E-13	8.69E-11	9.58E-12	3.27E-11	3.93E-14	4.23E-11
2970	420147.4	3734941	1.14E-10	5.21E-10	1.14E-12	6.36E-10	1.56E-11	7.12E-11	1.70E-13	8.70E-11	9.59E-12	3.27E-11	3.94E-14	4.24E-11
2971	420140.3	3734924	1.14E-10	5.22E-10	1.14E-12	6.37E-10	1.56E-11	7.13E-11	1.70E-13	8.71E-11	9.60E-12	3.28E-11	3.94E-14	4.24E-11
2972	420136.8	3734916	1.14E-10	5.22E-10	1.14E-12	6.37E-10	1.56E-11	7.13E-11	1.70E-13	8.71E-11	9.60E-12	3.28E-11	3.94E-14	4.24E-11
2973	420133.3	3734908	1.14E-10	5.22E-10	1.14E-12	6.37E-10	1.56E-11	7.13E-11	1.70E-13	8.71E-11	9.60E-12	3.28E-11	3.94E-14	4.24E-11
2974	420129.7	3734899	1.14E-10	5.21E-10	1.14E-12	6.36E-10	1.56E-11	7.13E-11	1.70E-13	8.71E-11	9.59E-12	3.28E-11	3.94E-14	4.24E-11
2975	420122.7	3734882	1.14E-10	5.21E-10	1.14E-12	6.36E-10	1.56E-11	7.12E-11	1.70E-13	8.70E-11	9.58E-12	3.27E-11	3.94E-14	4.23E-11
2976	420119.1	3734874	1.14E-10	5.20E-10	1.14E-12	6.35E-10	1.56E-11	7.11E-11	1.69E-13	8.69E-11	9.57E-12	3.27E-11	3.93E-14	4.23E-11
2977	420115.6	3734865	1.14E-10	5.19E-10	1.14E-12	6.34E-10	1.56E-11	7.10E-11	1.69E-13	8.68E-11	9.56E-12	3.26E-11	3.93E-14	4.22E-11
2978	420112	3734857	1.13E-10	5.19E-10	1.13E-12	6.33E-10	1.56E-11	7.09E-11	1.69E-13	8.67E-11	9.55E-12	3.26E-11	3.92E-14	4.22E-11
2979	420105	3734840	1.13E-10	5.17E-10	1.13E-12	6.31E-10	1.55E-11	7.07E-11	1.68E-13	8.64E-11	9.51E-12	3.25E-11	3.91E-14	4.20E-11
2980	420101.4	3734831	1.13E-10	5.16E-10	1.13E-12	6.30E-10	1.55E-11	7.06E-11	1.68E-13	8.62E-11	9.50E-12	3.24E-11	3.90E-14	4.20E-11
2981	420076.7	3734772	1.11E-10	5.07E-10	1.11E-12	6.19E-10	1.52E-11	6.93E-11	1.65E-13	8.47E-11	9.33E-12	3.19E-11	3.83E-14	4.12E-11
2982	420069.6	3734755	1.10E-10	5.03E-10	1.10E-12	6.14E-10	1.51E-11	6.88E-11	1.64E-13	8.41E-11	9.26E-12	3.16E-11	3.80E-14	4.09E-11
2983	420059	3734730	1.08E-10	4.95E-10	1.08E-12	6.05E-10	1.49E-11	6.78E-11	1.61E-13	8.28E-11	9.12E-12	3.11E-11	3.74E-14	4.03E-11
2984	420051.9	3734713	1.06E-10	4.87E-10	1.06E-12	5.94E-10	1.46E-11	6.65E-11	1.58E-13	8.13E-11	8.95E-12	3.06E-11	3.68E-14	3.96E-11
2985	420048.4	3734705	1.06E-10	4.83E-10	1.06E-12	5.89E-10	1.45E-11	6.60E-11	1.57E-13	8.06E-11	8.88E-12	3.03E-11	3.65E-14	3.92E-11
2986	420044.9	3734696	1.05E-10	4.80E-10	1.05E-12	5.86E-10	1.44E-11	6.56E-11	1.56E-13	8.02E-11	8.83E-12	3.02E-11	3.63E-14	3.90E-11
2987	420041.3	3734688	1.05E-10	4.79E-10	1.05E-12	5.84E-10	1.43E-11	6.54E-11	1.56E-13	7.99E-11	8.81E-12	3.01E-11	3.62E-14	3.89E-11
2988	420034.3	3734671	1.04E-10	4.75E-10	1.04E-12	5.80E-10	1.42E-11	6.50E-11	1.55E-13	7.94E-11	8.74E-12	2.99E-11	3.59E-14	3.86E-11
2989	420030.7	3734662	1.04E-10	4.75E-10	1.04E-12	5.79E-10	1.42E-11	6.49E-11	1.55E-13	7.93E-11	8.73E-12	2.98E-11	3.59E-14	3.86E-11

2990	420027.2	3734654	1.04E-10	4.75E-10	1.04E-12	5.79E-10	1.42E-11	6.49E-11	1.55E-13	7.93E-11	8.73E-12	2.98E-11	3.59E-14	3.86E-11
2991	420023.6	3734646	1.03E-10	4.72E-10	1.03E-12	5.76E-10	1.41E-11	6.45E-11	1.54E-13	7.88E-11	8.68E-12	2.96E-11	3.56E-14	3.84E-11
2992	420687.8	3735236	3.19E-10	1.46E-09	3.19E-12	1.78E-09	4.37E-11	1.99E-10	4.75E-13	2.43E-10	2.68E-11	9.16E-11	1.10E-13	1.19E-10
2993	420697	3735236	3.35E-10	1.53E-09	3.35E-12	1.87E-09	4.59E-11	2.09E-10	4.99E-13	2.56E-10	2.82E-11	9.63E-11	1.16E-13	1.25E-10
2994	420706.2	3735235	3.52E-10	1.61E-09	3.52E-12	1.97E-09	4.83E-11	2.20E-10	5.25E-13	2.69E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
2995	420733.8	3735235	4.14E-10	1.89E-09	4.14E-12	2.31E-09	5.68E-11	2.59E-10	6.17E-13	3.16E-10	3.49E-11	1.19E-10	1.43E-13	1.54E-10
2996	420743	3735235	4.38E-10	2.00E-09	4.38E-12	2.45E-09	6.01E-11	2.74E-10	6.53E-13	3.35E-10	3.69E-11	1.26E-10	1.52E-13	1.63E-10
2997	420771.6	3734562	1.68E-07	7.66E-07	1.68E-09	9.36E-07	2.30E-08	1.05E-07	2.50E-10	1.28E-07	1.41E-08	4.82E-08	5.79E-11	6.23E-08
2998	420782.1	3734561	1.42E-07	6.47E-07	1.42E-09	7.90E-07	1.94E-08	8.85E-08	2.11E-10	1.08E-07	1.19E-08	4.07E-08	4.89E-11	5.27E-08
2999	420766.7	3734581	1.35E-07	6.17E-07	1.35E-09	7.54E-07	1.85E-08	8.44E-08	2.01E-10	1.03E-07	1.14E-08	3.88E-08	4.67E-11	5.02E-08
3000	420793	3734527	1.25E-07	5.71E-07	1.25E-09	6.97E-07	1.71E-08	7.81E-08	1.86E-10	9.54E-08	1.05E-08	3.59E-08	4.31E-11	4.64E-08
3001	420793.3	3734517	1.19E-07	5.42E-07	1.18E-09	6.62E-07	1.62E-08	7.41E-08	1.76E-10	9.05E-08	9.97E-09	3.41E-08	4.10E-11	4.41E-08
3002	420793.6	3734507	1.09E-07	4.99E-07	1.09E-09	6.10E-07	1.50E-08	6.83E-08	1.63E-10	8.34E-08	9.19E-09	3.14E-08	3.77E-11	4.06E-08
3003	420792.4	3734561	1.19E-07	5.46E-07	1.19E-09	6.66E-07	1.64E-08	7.46E-08	1.78E-10	9.11E-08	1.00E-08	3.43E-08	4.12E-11	4.44E-08
3004	420785.5	3734577	1.16E-07	5.30E-07	1.16E-09	6.47E-07	1.59E-08	7.24E-08	1.72E-10	8.85E-08	9.75E-09	3.33E-08	4.00E-11	4.31E-08
3005	420774	3734588	1.13E-07	5.19E-07	1.13E-09	6.33E-07	1.56E-08	7.09E-08	1.69E-10	8.67E-08	9.55E-09	3.26E-08	3.92E-11	4.22E-08
3006	420757.9	3734595	1.10E-07	5.04E-07	1.10E-09	6.16E-07	1.51E-08	6.89E-08	1.64E-10	8.42E-08	9.28E-09	3.17E-08	3.81E-11	4.10E-08
3007	420803	3734527	1.00E-07	4.59E-07	1.00E-09	5.61E-07	1.38E-08	6.28E-08	1.50E-10	7.67E-08	8.45E-09	2.89E-08	3.47E-11	3.74E-08
3008	420803.3	3734517	9.46E-08	4.33E-07	9.46E-10	5.28E-07	1.30E-08	5.92E-08	1.41E-10	7.23E-08	7.96E-09	2.72E-08	3.27E-11	3.52E-08
3009	420803.6	3734507	8.68E-08	3.97E-07	8.68E-10	4.85E-07	1.19E-08	5.43E-08	1.29E-10	6.63E-08	7.31E-09	2.50E-08	3.00E-11	3.23E-08
3010	420800.9	3734564	1.02E-07	4.64E-07	1.01E-09	5.67E-07	1.39E-08	6.35E-08	1.51E-10	7.75E-08	8.54E-09	2.92E-08	3.51E-11	3.78E-08
3011	420796.9	3734574	1.02E-07	4.65E-07	1.02E-09	5.68E-07	1.40E-08	6.36E-08	1.52E-10	7.77E-08	8.56E-09	2.92E-08	3.52E-11	3.78E-08
3012	420793	3734583	9.91E-08	4.53E-07	9.91E-10	5.53E-07	1.36E-08	6.20E-08	1.48E-10	7.57E-08	8.34E-09	2.85E-08	3.43E-11	3.69E-08
3013	420779.8	3734596	9.69E-08	4.43E-07	9.69E-10	5.41E-07	1.33E-08	6.06E-08	1.44E-10	7.40E-08	8.15E-09	2.78E-08	3.35E-11	3.60E-08
3014	420770.7	3734600	9.68E-08	4.43E-07	9.67E-10	5.40E-07	1.33E-08	6.05E-08	1.44E-10	7.39E-08	8.14E-09	2.78E-08	3.34E-11	3.60E-08
3015	420761.5	3734603	9.31E-08	4.26E-07	9.30E-10	5.20E-07	1.28E-08	5.82E-08	1.39E-10	7.11E-08	7.83E-09	2.67E-08	3.22E-11	3.46E-08
3016	420812.8	3734537	8.53E-08	3.90E-07	8.53E-10	4.76E-07	1.17E-08	5.33E-08	1.27E-10	6.52E-08	7.18E-09	2.45E-08	2.95E-11	3.17E-08
3017	420813	3734527	8.18E-08	3.74E-07	8.18E-10	4.57E-07	1.12E-08	5.12E-08	1.22E-10	6.25E-08	6.89E-09	2.35E-08	2.83E-11	3.04E-08
3018	420813.3	3734517	7.67E-08	3.51E-07	7.66E-10	4.28E-07	1.05E-08	4.79E-08	1.14E-10	5.86E-08	6.45E-09	2.20E-08	2.65E-11	2.85E-08
3019	420813.6	3734507	7.03E-08	3.21E-07	7.02E-10	3.92E-07	9.63E-09	4.39E-08	1.05E-10	5.37E-08	5.91E-09	2.02E-08	2.43E-11	2.61E-08
3020	420811.3	3734564	8.61E-08	3.94E-07	8.61E-10	4.81E-07	1.18E-08	5.39E-08	1.28E-10	6.58E-08	7.25E-09	2.48E-08	2.98E-11	3.20E-08
3021	420807.5	3734573	8.79E-08	4.02E-07	8.78E-10	4.90E-07	1.20E-08	5.49E-08	1.31E-10	6.71E-08	7.39E-09	2.52E-08	3.04E-11	3.27E-08
3022	420803.7	3734581	8.75E-08	4.00E-07	8.75E-10	4.89E-07	1.20E-08	5.47E-08	1.30E-10	6.69E-08	7.36E-09	2.52E-08	3.02E-11	3.25E-08
3023	420799.9	3734590	8.52E-08	3.89E-07	8.51E-10	4.75E-07	1.17E-08	5.32E-08	1.27E-10	6.50E-08	7.16E-09	2.45E-08	2.94E-11	3.17E-08
3024	420787.2	3734603	8.35E-08	3.82E-07	8.34E-10	4.66E-07	1.14E-08	5.22E-08	1.24E-10	6.37E-08	7.02E-09	2.40E-08	2.88E-11	3.10E-08
3025	420778.3	3734606	8.38E-08	3.83E-07	8.37E-10	4.68E-07	1.15E-08	5.24E-08	1.25E-10	6.40E-08	7.05E-09	2.41E-08	2.89E-11	3.11E-08
3026	420769.5	3734610	8.16E-08	3.73E-07	8.15E-10	4.55E-07	1.12E-08	5.10E-08	1.21E-10	6.23E-08	6.86E-09	2.34E-08	2.82E-11	3.03E-08
3027	420760.6	3734614	7.68E-08	3.51E-07	7.67E-10	4.29E-07	1.05E-08	4.80E-08	1.14E-10	5.86E-08	6.46E-09	2.21E-08	2.65E-11	2.85E-08
3028	420751.8	3734618	6.96E-08	3.18E-07	6.95E-10	3.88E-07	9.54E-09	4.35E-08	1.04E-10	5.31E-08	5.85E-09	2.00E-08	2.40E-11	2.59E-08
3029	420822.8	3734537	7.08E-08	3.24E-07	7.08E-10	3.95E-07	9.71E-09	4.43E-08	1.05E-10	5.41E-08	5.96E-09	2.04E-08	2.45E-11	2.63E-08
3030	420823	3734527	6.76E-08	3.09E-07	6.75E-10	3.77E-07	9.26E-09	4.22E-08	1.01E-10	5.16E-08	5.68E-09	1.94E-08	2.33E-11	2.51E-08
3031	420823.3	3734517	6.30E-08	2.88E-07	6.30E-10	3.52E-07	8.64E-09	3.94E-08	9.38E-11	4.81E-08	5.30E-09	1.81E-08	2.18E-11	2.34E-08
3032	420823.6	3734507	5.77E-08	2.64E-07	5.77E-10	3.22E-07	7.91E-09	3.61E-08	8.59E-11	4.41E-08	4.85E-09	1.66E-08	1.99E-11	2.14E-08
3033	420821.6	3734563	7.33E-08	3.35E-07	7.32E-10	4.09E-07	1.00E-08	4.58E-08	1.09E-10	5.60E-08	6.16E-09	2.11E-08	2.53E-11	2.72E-08
3034	420817.9	3734572	7.56E-08	3.46E-07	7.56E-10	4.22E-07	1.04E-08	4.73E-08	1.13E-10	5.78E-08	6.36E-09	2.17E-08	2.61E-11	2.81E-08
3035	420814.2	3734580	7.66E-08	3.50E-07	7.65E-10	4.27E-07	1.05E-08	4.79E-08	1.14E-10	5.85E-08	6.44E-09	2.20E-08	2.65E-11	2.85E-08
3036	420810.5	3734589	7.59E-08	3.47E-07	7.59E-10	4.24E-07	1.04E-08	4.75E-08	1.13E-10	5.80E-08	6.39E-09	2.18E-08	2.62E-11	2.82E-08
3037	420806.8	3734598	7.39E-08	3.38E-07	7.39E-10	4.12E-07	1.01E-08	4.62E-08	1.10E-10	5.64E-08	6.22E-09	2.12E-08	2.55E-11	2.75E-08
3038	420794.5	3734610	7.26E-08	3.32E-07	7.26E-10	4.05E-07	9.95E-09	4.54E-08	1.08E-10	5.54E-08	6.11E-09	2.09E-08	2.51E-11	2.70E-08
3039	420785.9	3734613	7.31E-08	3.34E-07	7.31E-10	4.08E-07	1.00E-08	4.57E-08	1.09E-10	5.58E-08	6.15E-09	2.10E-08	2.53E-11	2.72E-08
3040	420777.3	3734617	7.18E-08	3.28E-07	7.17E-10	4.01E-07	9.84E-09	4.49E-08	1.07E-10	5.48E-08	6.04E-09	2.06E-08	2.48E-11	2.67E-08
3041	420768.7	3734621	6.86E-08	3.14E-07	6.86E-10	3.83E-07	9.40E-09	4.29E-08	1.02E-10	5.24E-08	5.77E-09	1.97E-08	2.37E-11	2.55E-08
3042	420760.1	3734624	6.36E-08	2.91E-07	6.35E-10	3.55E-07	8.71E-09	3.97E-08	9.46E-11	4.85E-08	5.35E-09	1.83E-08	2.20E-11	2.36E-08
3043	420751.5	3734628	5.70E-08	2.61E-07	5.70E-10	3.18E-07	7.81E-09	3.56E-08	8.49E-11	4.35E-08	4.80E-09	1.64E-08	1.97E-11	2.12E-08
3044	420832.8	3734538	5.94E-08	2.72E-07	5.94E-10	3.32E-07	8.15E-09	3.72E-08	8.85E-11	4.54E-08	5.00E-09	1.71E-08	2.05E-11	2.21E-08
3045	420833	3734528	5.64E-08	2.58E-07	5.63E-10	3.15E-07	7.73E-09	3.52E-08	8.39E-11	4.31E-08	4.74E-09	1.62E-08	1.95E-11	2.10E-08
3046	420833.3	3734518	5.25E-08	2.40E-07	5.24E-10	2.93E-07	7.19E-09	3.28E-08	7.81E-11	4.01E-08	4.41E-09	1.51E-08	1.81E-11	1.95E-08
3047	420833.6	3734508	4.80E-08	2.19E-07	4.80E-10	2.68E-07	6.58E-09	3.00E-08	7.14E-11	3.66E-08	4.04E-09	1.38E-08	1.66E-11	1.78E-08
3048	420840.9	3734566	5.46E-08	2.50E-07	5.46E-10	3.05E-07	7.49E-09	3.41E-08	8.13E-11	4.17E-08	4.59E-09	1.57E-08	1.89E-11	2.03E-08
3049	420836.9	3734575	5.72E-08	2.61E-07	5.72E-10	3.19E-07	7.84E-09	3.58E-08	8.51E-11	4.37E-08	4.81E-09	1.64E-08	1.98E-11	2.13E-08
3050	420833	3734584	5.88E-08	2.69E-07	5.88E-10	3.28E-07	8.06E-09	3.68E-08	8.75E-11	4.49E-08	4.95E-09	1.69E-08	2.03E-11	2.19E-08
3051	420829	3734593	5.94E-08	2.71E-07	5.93E-10	3.31E-07	8.14E-09	3.71E-08	8.84E-11	4.53E-08	4.99E-09	1.71E-08	2.05E-11	2.21E-08
3052	420825	3734602	5.89E-08	2.69E-07	5.88E-10	3.29E-07	8.07E-09	3.68E-08	8.76E-11	4.50E-08	4.95E-09	1.69E-08	2.03E-11	2.19E-08
3053	420821.1	3734611	5.73E-08	2.62E-07	5.73E-10	3.20E-07	7.86E-09	3.59E-08	8.54E-11	4.38E-08	4.82E-09	1.65E-08	1.98E-11	2.13E-08
3054	420808	3734624	5.65E-08	2.58E-07	5.65E-10	3.15E-07	7.75E-09	3.53E-08	8.41E-11	4.32E-08	4.75E-09	1.62E-08	1.95E-11	2.10E-08
3055	420798.8	3734628	5.70E-08	2.61E-07	5.70E-10	3.18E-07	7.81E-09	3.56E-08	8.49E-11	4.35E-08	4.80E-09	1.64E-08	1.97E-11	2.12E-08
3056	420789.6	3734632	5.62E-08	2.57E-07	5.62E-10	3.14E-07	7.70E-09	3.51E-08	8.37E-11	4.29E-08	4.73E-09	1.61E-08	1.94E-11	2.09E-08
3057	420780.4	3734636	5.40E-08	2.47E-07	5.40E-10	3.02E-07	7.41E-09	3.38E-08	8.04E-11	4.13E-08	4.55E-09	1.55E-08	1.87E-11	2.01E-08
3058	420771.2	3734640	5.06E-08	2.31E-07	5.05E-10	2.82E-07	6.93E-09	3.16E-08	7.53E-11	3.86E-08	4.25E-09	1.45E-08	1.75E-11	1.88E-08
3059	420762.1	3734643	4.59E-08	2.10E-07	4.59E-10	2.56E-07	6.30E-09	2.87E-08	6.84E-11	3.51E-08	3.87E-09	1.32E-08	1.59E-11	1.71E-08
3060	420752.9	3734647	4.05E-08	1.85E-07	4.05E-10	2.26E-07	5.56E-09	2.53E-08	6.03E-11	3.10E-08	3.41E-09	1.16E-08	1.40E-11	1.51E-08
3061	420743.7	3734651	3.47E-08	1.59E-07	3.47E-10	1.94E-07	4.76E-09	2.17E-08	5.17E-11	2.65E-08	2.92E-09	9.97E-09	1.20E-11	1.29E-08
3062	420861.4	3734565	4.07E-08	1.86E-07	4.07E-10	2.27E-07	5.58E-09	2.55E-08	6.06E-11	3.11E-08	3.43E-09	1.17E-08	1.41E-11	1.51E-08

3063	420857.6	3734574	4.31E-08	1.97E-07	4.31E-10	2.41E-07	5.91E-09	2.69E-08	6.42E-11	3.29E-08	3.63E-09	1.24E-08	1.49E-11	1.60E-08
3064	420853.9	3734582	4.50E-08	2.06E-07	4.50E-10	2.51E-07	6.17E-09	2.81E-08	6.70E-11	3.44E-08	3.79E-09	1.29E-08	1.56E-11	1.67E-08
3065	420850.1	3734591	4.64E-08	2.12E-07	4.64E-10	2.59E-07	6.36E-09	2.90E-08	6.91E-11	3.54E-08	3.90E-09	1.33E-08	1.60E-11	1.72E-08
3066	420846.3	3734600	4.72E-08	2.16E-07	4.71E-10	2.63E-07	6.46E-09	2.95E-08	7.02E-11	3.60E-08	3.97E-09	1.35E-08	1.63E-11	1.75E-08
3067	420842.5	3734608	4.73E-08	2.16E-07	4.73E-10	2.64E-07	6.48E-09	2.96E-08	7.04E-11	3.61E-08	3.98E-09	1.36E-08	1.63E-11	1.76E-08
3068	420838.7	3734617	4.67E-08	2.14E-07	4.67E-10	2.61E-07	6.41E-09	2.92E-08	6.96E-11	3.57E-08	3.93E-09	1.34E-08	1.61E-11	1.74E-08
3069	420835	3734626	4.56E-08	2.08E-07	4.56E-10	2.54E-07	6.25E-09	2.85E-08	6.78E-11	3.48E-08	3.83E-09	1.31E-08	1.57E-11	1.69E-08
3070	420822.4	3734638	4.51E-08	2.06E-07	4.51E-10	2.52E-07	6.18E-09	2.82E-08	6.71E-11	3.44E-08	3.79E-09	1.30E-08	1.56E-11	1.68E-08
3071	420813.7	3734642	4.56E-08	2.08E-07	4.55E-10	2.54E-07	6.25E-09	2.85E-08	6.78E-11	3.48E-08	3.83E-09	1.31E-08	1.57E-11	1.69E-08
3072	420804.9	3734646	4.53E-08	2.07E-07	4.53E-10	2.53E-07	6.22E-09	2.83E-08	6.75E-11	3.46E-08	3.81E-09	1.30E-08	1.57E-11	1.69E-08
3073	420796.1	3734649	4.43E-08	2.03E-07	4.43E-10	2.48E-07	6.08E-09	2.77E-08	6.60E-11	3.39E-08	3.73E-09	1.27E-08	1.53E-11	1.65E-08
3074	420787.4	3734653	4.25E-08	1.94E-07	4.25E-10	2.37E-07	5.83E-09	2.66E-08	6.33E-11	3.25E-08	3.58E-09	1.22E-08	1.47E-11	1.58E-08
3075	420778.6	3734657	3.99E-08	1.82E-07	3.99E-10	2.23E-07	5.47E-09	2.49E-08	5.94E-11	3.05E-08	3.36E-09	1.15E-08	1.38E-11	1.48E-08
3076	420769.9	3734660	3.66E-08	1.67E-07	3.66E-10	2.04E-07	5.02E-09	2.29E-08	5.45E-11	2.80E-08	3.08E-09	1.05E-08	1.27E-11	1.36E-08
3077	420761.1	3734664	3.28E-08	1.50E-07	3.28E-10	1.83E-07	4.50E-09	2.05E-08	4.89E-11	2.51E-08	2.76E-09	9.44E-09	1.14E-11	1.22E-08
3078	420752.3	3734668	2.88E-08	1.32E-07	2.88E-10	1.61E-07	3.95E-09	1.80E-08	4.29E-11	2.20E-08	2.43E-09	8.28E-09	9.96E-12	1.07E-08
3079	420743.6	3734671	2.48E-08	1.13E-07	2.48E-10	1.38E-07	3.40E-09	1.55E-08	3.69E-11	1.89E-08	2.09E-09	7.13E-09	8.57E-12	9.22E-09
3080	420880.9	3734567	3.16E-08	1.44E-07	3.15E-10	1.76E-07	4.33E-09	1.97E-08	4.70E-11	2.41E-08	2.66E-09	9.07E-09	1.09E-11	1.17E-08
3081	420876.9	3734576	3.36E-08	1.54E-07	3.36E-10	1.88E-07	4.61E-09	2.10E-08	5.00E-11	2.57E-08	2.83E-09	9.66E-09	1.16E-11	1.25E-08
3082	420872.9	3734585	3.54E-08	1.62E-07	3.54E-10	1.98E-07	4.85E-09	2.21E-08	5.27E-11	2.70E-08	2.98E-09	1.02E-08	1.22E-11	1.32E-08
3083	420869	3734594	3.68E-08	1.68E-07	3.68E-10	2.06E-07	5.05E-09	2.30E-08	5.48E-11	2.81E-08	3.10E-09	1.06E-08	1.27E-11	1.37E-08
3084	420865	3734603	3.78E-08	1.73E-07	3.78E-10	2.11E-07	5.19E-09	2.37E-08	5.63E-11	2.89E-08	3.18E-09	1.09E-08	1.31E-11	1.41E-08
3085	420861.1	3734612	3.84E-08	1.76E-07	3.84E-10	2.14E-07	5.26E-09	2.40E-08	5.71E-11	2.93E-08	3.23E-09	1.10E-08	1.33E-11	1.43E-08
3086	420857.1	3734621	3.84E-08	1.76E-07	3.84E-10	2.15E-07	5.27E-09	2.40E-08	5.72E-11	2.94E-08	3.23E-09	1.10E-08	1.33E-11	1.43E-08
3087	420853.2	3734631	3.80E-08	1.74E-07	3.80E-10	2.12E-07	5.21E-09	2.38E-08	5.66E-11	2.90E-08	3.20E-09	1.09E-08	1.31E-11	1.41E-08
3088	420849.2	3734640	3.71E-08	1.70E-07	3.71E-10	2.07E-07	5.09E-09	2.32E-08	5.53E-11	2.84E-08	3.12E-09	1.07E-08	1.28E-11	1.38E-08
3089	420836.1	3734653	3.68E-08	1.68E-07	3.67E-10	2.05E-07	5.04E-09	2.30E-08	5.47E-11	2.81E-08	3.09E-09	1.06E-08	1.27E-11	1.37E-08
3090	420826.9	3734656	3.72E-08	1.70E-07	3.72E-10	2.08E-07	5.10E-09	2.32E-08	5.53E-11	2.84E-08	3.13E-09	1.07E-08	1.28E-11	1.38E-08
3091	420817.7	3734660	3.70E-08	1.69E-07	3.70E-10	2.07E-07	5.08E-09	2.32E-08	5.51E-11	2.83E-08	3.12E-09	1.06E-08	1.28E-11	1.38E-08
3092	420808.5	3734664	3.63E-08	1.66E-07	3.63E-10	2.03E-07	4.98E-09	2.27E-08	5.41E-11	2.77E-08	3.06E-09	1.04E-08	1.26E-11	1.35E-08
3093	420799.4	3734668	3.50E-08	1.60E-07	3.50E-10	1.96E-07	4.80E-09	2.19E-08	5.21E-11	2.68E-08	2.95E-09	1.01E-08	1.21E-11	1.30E-08
3094	420790.2	3734672	3.31E-08	1.52E-07	3.31E-10	1.85E-07	4.54E-09	2.07E-08	4.93E-11	2.53E-08	2.79E-09	9.52E-09	1.15E-11	1.23E-08
3095	420781	3734676	3.07E-08	1.41E-07	3.07E-10	1.72E-07	4.21E-09	1.92E-08	4.58E-11	2.35E-08	2.59E-09	8.83E-09	1.06E-11	1.14E-08
3096	420771.8	3734680	2.79E-08	1.28E-07	2.79E-10	1.56E-07	3.83E-09	1.75E-08	4.16E-11	2.13E-08	2.35E-09	8.03E-09	9.65E-12	1.04E-08
3097	420762.6	3734683	2.48E-08	1.14E-07	2.48E-10	1.39E-07	3.41E-09	1.55E-08	3.70E-11	1.90E-08	2.09E-09	7.14E-09	8.59E-12	9.24E-09
3098	420753.5	3734687	2.17E-08	9.91E-08	2.17E-10	1.21E-07	2.97E-09	1.35E-08	3.23E-11	1.65E-08	1.82E-09	6.23E-09	7.49E-12	8.06E-09
3099	420744.3	3734691	1.86E-08	8.50E-08	1.86E-10	1.04E-07	2.55E-09	1.16E-08	2.77E-11	1.42E-08	1.56E-09	5.34E-09	6.42E-12	6.91E-09
3100	420893	3734529	2.27E-08	1.04E-07	2.27E-10	1.27E-07	3.11E-09	1.42E-08	3.38E-11	1.73E-08	1.91E-09	6.52E-09	7.84E-12	8.44E-09
3101	420893.3	3734519	2.11E-08	9.66E-08	2.11E-10	1.18E-07	2.90E-09	1.32E-08	3.14E-11	1.61E-08	1.78E-09	6.07E-09	7.30E-12	7.85E-09
3102	420893.5	3734509	1.94E-08	8.89E-08	1.94E-10	1.09E-07	2.67E-09	1.22E-08	2.89E-11	1.49E-08	1.64E-09	5.59E-09	6.72E-12	7.23E-09
3103	420901.3	3734566	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.51E-08	3.61E-11	1.85E-08	2.04E-09	6.96E-09	8.37E-12	9.01E-09
3104	420897.5	3734575	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.57E-09	1.63E-08	3.87E-11	1.99E-08	2.19E-09	7.48E-09	8.99E-12	9.67E-09
3105	420893.6	3734584	2.77E-08	1.26E-07	2.77E-10	1.54E-07	3.79E-09	1.73E-08	4.12E-11	2.11E-08	2.33E-09	7.95E-09	9.56E-12	1.03E-08
3106	420889.8	3734593	2.90E-08	1.33E-07	2.90E-10	1.62E-07	3.98E-09	1.82E-08	4.32E-11	2.22E-08	2.44E-09	8.34E-09	1.00E-11	1.08E-08
3107	420886	3734601	3.01E-08	1.38E-07	3.01E-10	1.68E-07	4.13E-09	1.88E-08	4.49E-11	2.30E-08	2.54E-09	8.66E-09	1.04E-11	1.12E-08
3108	420882.2	3734610	3.10E-08	1.42E-07	3.10E-10	1.73E-07	4.25E-09	1.94E-08	4.62E-11	2.37E-08	2.61E-09	8.91E-09	1.07E-11	1.15E-08
3109	420878.4	3734619	3.16E-08	1.44E-07	3.16E-10	1.76E-07	4.33E-09	1.97E-08	4.70E-11	2.41E-08	2.66E-09	9.07E-09	1.09E-11	1.17E-08
3110	420874.6	3734628	3.18E-08	1.46E-07	3.18E-10	1.78E-07	4.36E-09	1.99E-08	4.74E-11	2.43E-08	2.68E-09	9.15E-09	1.10E-11	1.18E-08
3111	420870.7	3734637	3.18E-08	1.45E-07	3.18E-10	1.77E-07	4.36E-09	1.99E-08	4.73E-11	2.43E-08	2.67E-09	9.13E-09	1.10E-11	1.18E-08
3112	420866.9	3734645	3.14E-08	1.43E-07	3.14E-10	1.75E-07	4.30E-09	1.96E-08	4.67E-11	2.40E-08	2.64E-09	9.02E-09	1.08E-11	1.17E-08
3113	420863.1	3734654	3.07E-08	1.40E-07	3.07E-10	1.71E-07	4.21E-09	1.92E-08	4.57E-11	2.34E-08	2.58E-09	8.82E-09	1.06E-11	1.14E-08
3114	420850.4	3734667	3.04E-08	1.39E-07	3.04E-10	1.70E-07	4.17E-09	1.90E-08	4.52E-11	2.32E-08	2.56E-09	8.73E-09	1.05E-11	1.13E-08
3115	420841.6	3734670	3.07E-08	1.41E-07	3.07E-10	1.72E-07	4.21E-09	1.92E-08	4.58E-11	2.35E-08	2.59E-09	8.83E-09	1.06E-11	1.14E-08
3116	420832.7	3734674	3.08E-08	1.41E-07	3.08E-10	1.72E-07	4.23E-09	1.93E-08	4.59E-11	2.36E-08	2.59E-09	8.86E-09	1.07E-11	1.15E-08
3117	420823.9	3734678	3.05E-08	1.40E-07	3.05E-10	1.71E-07	4.19E-09	1.91E-08	4.55E-11	2.33E-08	2.57E-09	8.78E-09	1.06E-11	1.14E-08
3118	420815	3734682	2.98E-08	1.36E-07	2.98E-10	1.66E-07	4.09E-09	1.86E-08	4.44E-11	2.28E-08	2.51E-09	8.57E-09	1.03E-11	1.11E-08
3119	420806.2	3734685	2.87E-08	1.31E-07	2.87E-10	1.60E-07	3.93E-09	1.79E-08	4.27E-11	2.19E-08	2.41E-09	8.25E-09	9.92E-12	1.07E-08
3120	420797.4	3734689	2.72E-08	1.24E-07	2.72E-10	1.52E-07	3.73E-09	1.70E-08	4.05E-11	2.08E-08	2.29E-09	7.82E-09	9.40E-12	1.01E-08
3121	420788.5	3734693	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.48E-09	1.59E-08	3.78E-11	1.94E-08	2.14E-09	7.29E-09	8.77E-12	9.44E-09
3122	420779.7	3734696	2.33E-08	1.07E-07	2.33E-10	1.30E-07	3.19E-09	1.46E-08	3.47E-11	1.78E-08	1.96E-09	6.69E-09	8.05E-12	8.66E-09
3123	420770.8	3734700	2.10E-08	9.59E-08	2.10E-10	1.17E-07	2.88E-09	1.31E-08	3.12E-11	1.60E-08	1.76E-09	6.03E-09	7.25E-12	7.80E-09
3124	420762	3734704	1.86E-08	8.51E-08	1.86E-10	1.04E-07	2.55E-09	1.16E-08	2.77E-11	1.42E-08	1.57E-09	5.35E-09	6.43E-12	6.92E-09
3125	420753.1	3734708	1.63E-08	7.45E-08	1.63E-10	9.09E-08	2.23E-09	1.02E-08	2.42E-11	1.24E-08	1.37E-09	4.68E-09	5.63E-12	6.06E-09
3126	420744.3	3734711	1.41E-08	6.46E-08	1.41E-10	7.88E-08	1.94E-09	8.83E-09	2.10E-11	1.08E-08	1.19E-09	4.06E-09	4.88E-12	5.25E-09
3127	420913	3734530	1.76E-08	8.06E-08	1.76E-10	9.85E-08	2.42E-09	1.10E-08	2.63E-11	1.35E-08	1.48E-09	5.07E-09	6.09E-12	6.56E-09
3128	420913.3	3734520	1.64E-08	7.51E-08	1.64E-10	9.17E-08	2.25E-09	1.03E-08	2.45E-11	1.25E-08	1.38E-09	4.72E-09	5.68E-12	6.11E-09
3129	420913.5	3734510	1.52E-08	6.96E-08	1.52E-10	8.50E-08	2.09E-09	9.52E-09	2.27E-11	1.16E-08	1.28E-09	4.38E-09	5.26E-12	5.66E-09
3130	420920.8	3734568	1.93E-08	8.81E-08	1.93E-10	1.08E-07	2.64E-09	1.20E-08	2.87E-11	1.47E-08	1.62E-09	5.54E-09	6.66E-12	7.17E-09
3131	420916.9	3734577	2.07E-08	9.46E-08	2.07E-10	1.16E-07	2.84E-09	1.29E-08	3.08E-11	1.58E-08	1.74E-09	5.95E-09	7.15E-12	7.70E-09
3132	420912.9	3734586	2.21E-08	1.01E-07	2.21E-10	1.23E-07	3.03E-09	1.38E-08	3.29E-11	1.69E-08	1.86E-09	6.36E-09	7.64E-12	8.22E-09
3133	420909	3734595	2.34E-08	1.07E-07	2.34E-10	1.31E-07	3.21E-09	1.47E-08	3.49E-11	1.79E-08	1.97E-09	6.74E-09	8.10E-12	8.72E-09
3134	420905	3734604	2.46E-08	1.13E-07	2.46E-10	1.37E-07	3.37E-09	1.54E-08	3.66E-11	1.88E-08	2.07E-09	7.07E-09	8.51E-12	9.15E-09
3135	420901.1	3734613	2.55E-08	1.16E-07	2.54E-10	1.42E-07	3.49E-09	1.59E-08	3.79E-11	1.94E-08	2.14E-09	7.32E-09	8.80E-12	9.47E-09

3136	420897.1	3734622	2.61E-08	1.19E-07	2.61E-10	1.46E-07	3.58E-09	1.63E-08	3.88E-11	1.99E-08	2.20E-09	7.50E-09	9.02E-12	9.70E-09
3137	420893.1	3734632	2.65E-08	1.21E-07	2.65E-10	1.48E-07	3.63E-09	1.66E-08	3.95E-11	2.02E-08	2.23E-09	7.62E-09	9.16E-12	9.86E-09
3138	420889.2	3734641	2.67E-08	1.22E-07	2.67E-10	1.49E-07	3.66E-09	1.67E-08	3.97E-11	2.04E-08	2.25E-09	7.67E-09	9.22E-12	9.93E-09
3139	420885.2	3734650	2.66E-08	1.22E-07	2.66E-10	1.49E-07	3.65E-09	1.66E-08	3.96E-11	2.03E-08	2.24E-09	7.65E-09	9.20E-12	9.90E-09
3140	420881.3	3734659	2.63E-08	1.20E-07	2.63E-10	1.47E-07	3.61E-09	1.64E-08	3.92E-11	2.01E-08	2.21E-09	7.56E-09	9.09E-12	9.78E-09
3141	420877.3	3734668	2.58E-08	1.18E-07	2.58E-10	1.44E-07	3.53E-09	1.61E-08	3.84E-11	1.97E-08	2.17E-09	7.41E-09	8.91E-12	9.59E-09
3142	420864.2	3734681	2.57E-08	1.17E-07	2.56E-10	1.43E-07	3.52E-09	1.60E-08	3.82E-11	1.96E-08	2.16E-09	7.37E-09	8.86E-12	9.54E-09
3143	420855	3734685	2.60E-08	1.19E-07	2.60E-10	1.45E-07	3.57E-09	1.63E-08	3.87E-11	1.99E-08	2.19E-09	7.48E-09	8.99E-12	9.67E-09
3144	420845.8	3734689	2.61E-08	1.19E-07	2.61E-10	1.46E-07	3.58E-09	1.63E-08	3.89E-11	1.99E-08	2.20E-09	7.50E-09	9.02E-12	9.70E-09
3145	420836.6	3734693	2.59E-08	1.18E-07	2.59E-10	1.45E-07	3.55E-09	1.62E-08	3.85E-11	1.98E-08	2.18E-09	7.44E-09	8.95E-12	9.63E-09
3146	420827.5	3734696	2.54E-08	1.16E-07	2.54E-10	1.42E-07	3.48E-09	1.59E-08	3.78E-11	1.94E-08	2.14E-09	7.30E-09	8.77E-12	9.44E-09
3147	420818.3	3734700	2.45E-08	1.12E-07	2.45E-10	1.37E-07	3.36E-09	1.53E-08	3.65E-11	1.87E-08	2.06E-09	7.05E-09	8.48E-12	9.12E-09
3148	420809.1	3734704	2.34E-08	1.07E-07	2.34E-10	1.31E-07	3.21E-09	1.46E-08	3.48E-11	1.79E-08	1.97E-09	6.72E-09	8.08E-12	8.70E-09
3149	420799.9	3734708	2.20E-08	1.01E-07	2.20E-10	1.23E-07	3.02E-09	1.38E-08	3.27E-11	1.68E-08	1.85E-09	6.32E-09	7.60E-12	8.18E-09
3150	420790.8	3734712	2.04E-08	9.31E-08	2.03E-10	1.14E-07	2.79E-09	1.27E-08	3.03E-11	1.55E-08	1.71E-09	5.85E-09	7.03E-12	7.57E-09
3151	420781.6	3734716	1.85E-08	8.48E-08	1.85E-10	1.04E-07	2.54E-09	1.16E-08	2.76E-11	1.42E-08	1.56E-09	5.33E-09	6.41E-12	6.89E-09
3152	420772.4	3734720	1.66E-08	7.61E-08	1.66E-10	9.29E-08	2.28E-09	1.04E-08	2.48E-11	1.27E-08	1.40E-09	4.78E-09	5.75E-12	6.19E-09
3153	420763.2	3734723	1.48E-08	6.75E-08	1.48E-10	8.24E-08	2.02E-09	9.23E-09	2.20E-11	1.13E-08	1.24E-09	4.24E-09	5.10E-12	5.49E-09
3154	420754.1	3734727	1.29E-08	5.89E-08	1.29E-10	7.20E-08	1.77E-09	8.06E-09	1.92E-11	9.85E-09	1.08E-09	3.70E-09	4.46E-12	4.79E-09
3155	420744.9	3734731	1.11E-08	5.08E-08	1.11E-10	6.20E-08	1.52E-09	6.95E-09	1.65E-11	8.48E-09	9.35E-10	3.19E-09	3.84E-12	4.13E-09
3156	420933	3734530	1.41E-08	6.42E-08	1.40E-10	7.84E-08	1.93E-09	8.78E-09	2.09E-11	1.07E-08	1.18E-09	4.04E-09	4.86E-12	5.22E-09
3157	420933.3	3734520	1.31E-08	5.99E-08	1.31E-10	7.32E-08	1.80E-09	8.19E-09	1.95E-11	1.00E-08	1.10E-09	3.77E-09	4.53E-12	4.87E-09
3158	420933.5	3734510	1.21E-08	5.55E-08	1.21E-10	6.77E-08	1.66E-09	7.58E-09	1.81E-11	9.26E-09	1.02E-09	3.49E-09	4.19E-12	4.51E-09
3159	420941.2	3734567	1.53E-08	7.02E-08	1.53E-10	8.57E-08	2.10E-09	9.60E-09	2.28E-11	1.17E-08	1.29E-09	4.41E-09	5.30E-12	5.71E-09
3160	420937.3	3734576	1.64E-08	7.51E-08	1.64E-10	9.17E-08	2.25E-09	1.03E-08	2.45E-11	1.26E-08	1.38E-09	4.72E-09	5.68E-12	6.11E-09
3161	420933.5	3734585	1.75E-08	8.02E-08	1.75E-10	9.79E-08	2.40E-09	1.10E-08	2.61E-11	1.34E-08	1.48E-09	5.04E-09	6.06E-12	6.52E-09
3162	420929.7	3734594	1.86E-08	8.52E-08	1.86E-10	1.04E-07	2.55E-09	1.16E-08	2.77E-11	1.42E-08	1.57E-09	5.35E-09	6.44E-12	6.93E-09
3163	420925.8	3734603	1.97E-08	8.99E-08	1.96E-10	1.10E-07	2.69E-09	1.23E-08	2.93E-11	1.50E-08	1.65E-09	5.65E-09	6.79E-12	7.31E-09
3164	420922	3734612	2.06E-08	9.41E-08	2.06E-10	1.15E-07	2.82E-09	1.29E-08	3.06E-11	1.57E-08	1.73E-09	5.91E-09	7.11E-12	7.65E-09
3165	420918.1	3734621	2.13E-08	9.76E-08	2.13E-10	1.19E-07	2.93E-09	1.33E-08	3.18E-11	1.63E-08	1.80E-09	6.13E-09	7.38E-12	7.94E-09
3166	420914.3	3734629	2.20E-08	1.00E-07	2.20E-10	1.23E-07	3.01E-09	1.37E-08	3.27E-11	1.68E-08	1.85E-09	6.31E-09	7.59E-12	8.17E-09
3167	420910.5	3734638	2.24E-08	1.02E-07	2.24E-10	1.25E-07	3.07E-09	1.40E-08	3.33E-11	1.71E-08	1.88E-09	6.43E-09	7.73E-12	8.32E-09
3168	420906.6	3734647	2.26E-08	1.03E-07	2.26E-10	1.26E-07	3.10E-09	1.41E-08	3.37E-11	1.73E-08	1.90E-09	6.50E-09	7.81E-12	8.41E-09
3169	420902.8	3734656	2.27E-08	1.04E-07	2.27E-10	1.27E-07	3.11E-09	1.42E-08	3.38E-11	1.73E-08	1.91E-09	6.52E-09	7.84E-12	8.43E-09
3170	420898.9	3734665	2.26E-08	1.03E-07	2.26E-10	1.26E-07	3.10E-09	1.41E-08	3.36E-11	1.73E-08	1.90E-09	6.49E-09	7.81E-12	8.40E-09
3171	420895.1	3734674	2.23E-08	1.02E-07	2.23E-10	1.25E-07	3.06E-09	1.40E-08	3.33E-11	1.71E-08	1.88E-09	6.42E-09	7.72E-12	8.31E-09
3172	420891.2	3734683	2.19E-08	1.00E-07	2.19E-10	1.22E-07	3.01E-09	1.37E-08	3.27E-11	1.68E-08	1.85E-09	6.30E-09	7.58E-12	8.16E-09
3173	420878.5	3734695	2.19E-08	1.00E-07	2.19E-10	1.22E-07	3.00E-09	1.37E-08	3.26E-11	1.67E-08	1.84E-09	6.29E-09	7.56E-12	8.14E-09
3174	420869.6	3734699	2.22E-08	1.02E-07	2.22E-10	1.24E-07	3.05E-09	1.39E-08	3.31E-11	1.70E-08	1.87E-09	6.39E-09	7.69E-12	8.27E-09
3175	420860.7	3734703	2.24E-08	1.02E-07	2.24E-10	1.25E-07	3.07E-09	1.40E-08	3.33E-11	1.71E-08	1.88E-09	6.43E-09	7.74E-12	8.32E-09
3176	420851.8	3734706	2.23E-08	1.02E-07	2.23E-10	1.25E-07	3.06E-09	1.40E-08	3.32E-11	1.70E-08	1.88E-09	6.41E-09	7.71E-12	8.30E-09
3177	420842.9	3734710	2.20E-08	1.01E-07	2.20E-10	1.23E-07	3.02E-09	1.38E-08	3.28E-11	1.68E-08	1.85E-09	6.33E-09	7.62E-12	8.20E-09
3178	420834	3734714	2.15E-08	9.85E-08	2.15E-10	1.20E-07	2.95E-09	1.35E-08	3.21E-11	1.65E-08	1.81E-09	6.19E-09	7.44E-12	8.01E-09
3179	420825.1	3734718	2.08E-08	9.52E-08	2.08E-10	1.16E-07	2.85E-09	1.30E-08	3.10E-11	1.59E-08	1.75E-09	5.98E-09	7.19E-12	7.74E-09
3180	420816.2	3734721	1.99E-08	9.08E-08	1.99E-10	1.11E-07	2.72E-09	1.24E-08	2.96E-11	1.52E-08	1.67E-09	5.71E-09	6.87E-12	7.39E-09
3181	420807.2	3734725	1.87E-08	8.56E-08	1.87E-10	1.05E-07	2.57E-09	1.17E-08	2.79E-11	1.43E-08	1.58E-09	5.38E-09	6.47E-12	6.96E-09
3182	420798.3	3734729	1.74E-08	7.97E-08	1.74E-10	9.73E-08	2.39E-09	1.09E-08	2.59E-11	1.33E-08	1.47E-09	5.01E-09	6.02E-12	6.48E-09
3183	420789.4	3734733	1.60E-08	7.32E-08	1.60E-10	8.93E-08	2.19E-09	1.00E-08	2.38E-11	1.22E-08	1.35E-09	4.60E-09	5.53E-12	5.95E-09
3184	420771.6	3734740	1.31E-08	5.97E-08	1.31E-10	7.29E-08	1.79E-09	8.17E-09	1.95E-11	9.98E-09	1.10E-09	3.75E-09	4.52E-12	4.86E-09
3185	420762.7	3734744	1.16E-08	5.29E-08	1.16E-10	6.46E-08	1.59E-09	7.24E-09	1.72E-11	8.84E-09	9.74E-10	3.33E-09	4.00E-12	4.30E-09
3186	420753.8	3734747	1.01E-08	4.64E-08	1.01E-10	5.67E-08	1.39E-09	6.35E-09	1.51E-11	7.75E-09	8.54E-10	2.92E-09	3.51E-12	3.77E-09
3187	420744.9	3734751	8.82E-09	4.03E-08	8.81E-11	4.92E-08	1.21E-09	5.51E-09	1.31E-11	6.73E-09	7.42E-10	2.53E-09	3.05E-12	3.28E-09
3188	420953	3734531	1.14E-08	5.19E-08	1.13E-10	6.34E-08	1.56E-09	7.10E-09	1.69E-11	8.67E-09	9.55E-10	3.26E-09	3.92E-12	4.22E-09
3189	420953.2	3734521	1.06E-08	4.86E-08	1.06E-10	5.94E-08	1.46E-09	6.65E-09	1.58E-11	8.12E-09	8.95E-10	3.06E-09	3.68E-12	3.95E-09
3190	420953.5	3734511	9.87E-09	4.51E-08	9.86E-11	5.51E-08	1.35E-09	6.17E-09	1.47E-11	7.54E-09	8.30E-10	2.84E-09	3.41E-12	3.67E-09
3191	420960.8	3734569	1.26E-08	5.75E-08	1.26E-10	7.02E-08	1.72E-09	7.86E-09	1.87E-11	9.60E-09	1.06E-09	3.61E-09	4.34E-12	4.67E-09
3192	420956.9	3734578	1.35E-08	6.17E-08	1.35E-10	7.53E-08	1.85E-09	8.43E-09	2.01E-11	1.03E-08	1.13E-09	3.87E-09	4.66E-12	5.01E-09
3193	420952.9	3734587	1.44E-08	6.60E-08	1.44E-10	8.06E-08	1.98E-09	9.03E-09	2.15E-11	1.10E-08	1.22E-09	4.15E-09	4.99E-12	5.37E-09
3194	420949	3734596	1.54E-08	7.03E-08	1.54E-10	8.58E-08	2.11E-09	9.61E-09	2.29E-11	1.17E-08	1.29E-09	4.42E-09	5.31E-12	5.72E-09
3195	420945	3734605	1.63E-08	7.43E-08	1.62E-10	9.08E-08	2.23E-09	1.02E-08	2.42E-11	1.24E-08	1.37E-09	4.67E-09	5.62E-12	6.05E-09
3196	420941	3734614	1.71E-08	7.81E-08	1.71E-10	9.53E-08	2.34E-09	1.07E-08	2.54E-11	1.30E-08	1.44E-09	4.91E-09	5.90E-12	6.35E-09
3197	420937.1	3734624	1.78E-08	8.14E-08	1.78E-10	9.94E-08	2.44E-09	1.11E-08	2.65E-11	1.36E-08	1.50E-09	5.12E-09	6.15E-12	6.62E-09
3198	420933.1	3734633	1.84E-08	8.42E-08	1.84E-10	1.03E-07	2.52E-09	1.15E-08	2.74E-11	1.41E-08	1.55E-09	5.29E-09	6.36E-12	6.85E-09
3199	420929.2	3734642	1.89E-08	8.64E-08	1.89E-10	1.06E-07	2.59E-09	1.18E-08	2.81E-11	1.44E-08	1.59E-09	5.43E-09	6.53E-12	7.03E-09
3200	420925.2	3734651	1.93E-08	8.81E-08	1.93E-10	1.08E-07	2.64E-09	1.20E-08	2.87E-11	1.47E-08	1.62E-09	5.54E-09	6.66E-12	7.17E-09
3201	420921.3	3734660	1.95E-08	8.89E-08	1.94E-10	1.09E-07	2.67E-09	1.22E-08	2.90E-11	1.49E-08	1.64E-09	5.59E-09	6.72E-12	7.23E-09
3202	420917.3	3734669	1.95E-08	8.92E-08	1.95E-10	1.09E-07	2.67E-09	1.22E-08	2.90E-11	1.49E-08	1.64E-09	5.60E-09	6.74E-12	7.25E-09
3203	420913.3	3734678	1.94E-08	8.88E-08	1.94E-10	1.08E-07	2.66E-09	1.21E-08	2.89E-11	1.48E-08	1.63E-09	5.58E-09	6.71E-12	7.22E-09
3204	420909.4	3734687	1.92E-08	8.79E-08	1.92E-10	1.07E-07	2.63E-09	1.20E-08	2.86E-11	1.47E-08	1.62E-09	5.52E-09	6.64E-12	7.15E-09
3205	420905.4	3734697	1.89E-08	8.63E-08	1.89E-10	1.05E-07	2.59E-09	1.18E-08	2.81E-11	1.44E-08	1.59E-09	5.42E-09	6.52E-12	7.02E-09
3206	420892.3	3734710	1.88E-08	8.61E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	2.80E-11	1.44E-08	1.58E-09	5.41E-09	6.51E-12	7.00E-09
3207	420883.1	3734713	1.92E-08	8.76E-08	1.92E-10	1.07E-07	2.63E-09	1.20E-08	2.85E-11	1.46E-08	1.61E-09	5.51E-09	6.62E-12	7.13E-09
3208	420873.9	3734717	1.94E-08	8.85E-08	1.93E-10	1.08E-07	2.65E-09	1.21E-08	2.88E-11	1.48E-08	1.63E-09	5.56E-09	6.69E-12	7.20E-09

3209	420864.8	3734721	1.94E-08	8.85E-08	1.94E-10	1.08E-07	2.65E-09	1.21E-08	2.88E-11	1.48E-08	1.63E-09	5.56E-09	6.69E-12	7.20E-09
3210	420855.6	3734725	1.92E-08	8.77E-08	1.92E-10	1.07E-07	2.63E-09	1.20E-08	2.86E-11	1.47E-08	1.61E-09	5.51E-09	6.63E-12	7.13E-09
3211	420846.4	3734729	1.88E-08	8.60E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	2.80E-11	1.44E-08	1.58E-09	5.41E-09	6.50E-12	7.00E-09
3212	420837.2	3734733	1.83E-08	8.35E-08	1.83E-10	1.02E-07	2.50E-09	1.14E-08	2.72E-11	1.40E-08	1.54E-09	5.25E-09	6.31E-12	6.79E-09
3213	420791.3	3734752	1.32E-08	6.03E-08	1.32E-10	7.36E-08	1.81E-09	8.24E-09	1.96E-11	1.01E-08	1.11E-09	3.79E-09	4.56E-12	4.90E-09
3214	420782.2	3734756	1.19E-08	5.45E-08	1.19E-10	6.65E-08	1.63E-09	7.45E-09	1.77E-11	9.10E-09	1.00E-09	3.42E-09	4.12E-12	4.43E-09
3215	420773	3734760	1.06E-08	4.87E-08	1.06E-10	5.94E-08	1.46E-09	6.66E-09	1.59E-11	8.13E-09	8.96E-10	3.06E-09	3.68E-12	3.96E-09
3216	420763.8	3734763	9.42E-09	4.31E-08	9.41E-11	5.26E-08	1.29E-09	5.89E-09	1.40E-11	7.19E-09	7.93E-10	2.71E-09	3.26E-12	3.50E-09
3217	420754.6	3734767	8.26E-09	3.78E-08	8.25E-11	4.61E-08	1.13E-09	5.16E-09	1.23E-11	6.31E-09	6.95E-10	2.37E-09	2.85E-12	3.07E-09
3218	420745.5	3734771	7.18E-09	3.28E-08	7.17E-11	4.01E-08	9.84E-10	4.49E-09	1.07E-11	5.48E-09	6.04E-10	2.06E-09	2.48E-12	2.67E-09
3219	420973	3734531	9.35E-09	4.28E-08	9.35E-11	5.22E-08	1.28E-09	5.85E-09	1.39E-11	7.14E-09	7.87E-10	2.69E-09	3.23E-12	3.48E-09
3220	420973.2	3734521	8.76E-09	4.01E-08	8.76E-11	4.89E-08	1.20E-09	5.48E-09	1.30E-11	6.69E-09	7.37E-10	2.52E-09	3.03E-12	3.26E-09
3221	420973.5	3734511	8.15E-09	3.73E-08	8.15E-11	4.55E-08	1.12E-09	5.10E-09	1.21E-11	6.22E-09	6.86E-10	2.34E-09	2.82E-12	3.03E-09
3222	420981.1	3734569	1.04E-08	4.75E-08	1.04E-10	5.81E-08	1.43E-09	6.50E-09	1.55E-11	7.94E-09	8.75E-10	2.99E-09	3.59E-12	3.87E-09
3223	420977.3	3734577	1.11E-08	5.08E-08	1.11E-10	6.20E-08	1.52E-09	6.94E-09	1.65E-11	8.48E-09	9.34E-10	3.19E-09	3.84E-12	4.13E-09
3224	420973.4	3734586	1.19E-08	5.42E-08	1.19E-10	6.62E-08	1.63E-09	7.42E-09	1.77E-11	9.06E-09	9.98E-10	3.41E-09	4.10E-12	4.41E-09
3225	420969.5	3734595	1.26E-08	5.77E-08	1.26E-10	7.05E-08	1.73E-09	7.89E-09	1.88E-11	9.64E-09	1.06E-09	3.63E-09	4.36E-12	4.69E-09
3226	420965.7	3734604	1.34E-08	6.11E-08	1.34E-10	7.46E-08	1.83E-09	8.35E-09	1.99E-11	1.02E-08	1.12E-09	3.84E-09	4.62E-12	4.97E-09
3227	420961.8	3734613	1.41E-08	6.43E-08	1.40E-10	7.85E-08	1.93E-09	8.79E-09	2.09E-11	1.07E-08	1.18E-09	4.04E-09	4.86E-12	5.23E-09
3228	420958	3734622	1.47E-08	6.74E-08	1.47E-10	8.23E-08	2.02E-09	9.21E-09	2.19E-11	1.13E-08	1.24E-09	4.23E-09	5.09E-12	5.48E-09
3229	420954.1	3734631	1.54E-08	7.02E-08	1.53E-10	8.57E-08	2.10E-09	9.60E-09	2.29E-11	1.17E-08	1.29E-09	4.41E-09	5.30E-12	5.71E-09
3230	420950.3	3734640	1.59E-08	7.26E-08	1.59E-10	8.87E-08	2.18E-09	9.93E-09	2.36E-11	1.21E-08	1.34E-09	4.56E-09	5.49E-12	5.91E-09
3231	420946.4	3734649	1.63E-08	7.45E-08	1.63E-10	9.10E-08	2.23E-09	1.02E-08	2.43E-11	1.25E-08	1.37E-09	4.68E-09	5.63E-12	6.06E-09
3232	420942.5	3734658	1.66E-08	7.60E-08	1.66E-10	9.28E-08	2.28E-09	1.04E-08	2.47E-11	1.27E-08	1.40E-09	4.78E-09	5.74E-12	6.18E-09
3233	420938.7	3734667	1.68E-08	7.69E-08	1.68E-10	9.38E-08	2.30E-09	1.05E-08	2.50E-11	1.28E-08	1.41E-09	4.83E-09	5.81E-12	6.25E-09
3234	420934.8	3734675	1.69E-08	7.73E-08	1.69E-10	9.44E-08	2.32E-09	1.06E-08	2.52E-11	1.29E-08	1.42E-09	4.86E-09	5.84E-12	6.29E-09
3235	420931	3734684	1.69E-08	7.74E-08	1.69E-10	9.44E-08	2.32E-09	1.06E-08	2.52E-11	1.29E-08	1.42E-09	4.86E-09	5.85E-12	6.29E-09
3236	420927.1	3734693	1.68E-08	7.70E-08	1.68E-10	9.40E-08	2.31E-09	1.05E-08	2.51E-11	1.29E-08	1.42E-09	4.84E-09	5.82E-12	6.26E-09
3237	420923.2	3734702	1.67E-08	7.62E-08	1.67E-10	9.30E-08	2.28E-09	1.04E-08	2.48E-11	1.27E-08	1.40E-09	4.79E-09	5.76E-12	6.20E-09
3238	420919.4	3734711	1.64E-08	7.48E-08	1.63E-10	9.13E-08	2.24E-09	1.02E-08	2.43E-11	1.25E-08	1.38E-09	4.70E-09	5.65E-12	6.08E-09
3239	420906.6	3734724	1.63E-08	7.46E-08	1.63E-10	9.10E-08	2.24E-09	1.02E-08	2.43E-11	1.25E-08	1.37E-09	4.69E-09	5.64E-12	6.06E-09
3240	420897.6	3734727	1.66E-08	7.58E-08	1.66E-10	9.26E-08	2.27E-09	1.04E-08	2.47E-11	1.27E-08	1.40E-09	4.77E-09	5.73E-12	6.17E-09
3241	420888.7	3734731	1.68E-08	7.68E-08	1.68E-10	9.37E-08	2.30E-09	1.05E-08	2.50E-11	1.28E-08	1.41E-09	4.83E-09	5.80E-12	6.24E-09
3242	420835	3734754	1.52E-08	6.93E-08	1.52E-10	8.46E-08	2.08E-09	9.48E-09	2.26E-11	1.16E-08	1.28E-09	4.36E-09	5.24E-12	5.64E-09
3243	420826	3734757	1.44E-08	6.59E-08	1.44E-10	8.04E-08	1.97E-09	9.01E-09	2.14E-11	1.10E-08	1.21E-09	4.14E-09	4.98E-12	5.36E-09
3244	420817.1	3734761	1.35E-08	6.19E-08	1.35E-10	7.56E-08	1.86E-09	8.47E-09	2.02E-11	1.03E-08	1.14E-09	3.89E-09	4.68E-12	5.04E-09
3245	420808.1	3734765	1.26E-08	5.76E-08	1.26E-10	7.04E-08	1.73E-09	7.88E-09	1.88E-11	9.63E-09	1.06E-09	3.62E-09	4.36E-12	4.69E-09
3246	420799.2	3734769	1.16E-08	5.30E-08	1.16E-10	6.47E-08	1.59E-09	7.25E-09	1.73E-11	8.86E-09	9.76E-10	3.33E-09	4.01E-12	4.31E-09
3247	420790.3	3734772	1.06E-08	4.84E-08	1.06E-10	5.91E-08	1.45E-09	6.62E-09	1.58E-11	8.09E-09	8.91E-10	3.04E-09	3.66E-12	3.94E-09
3248	420781.3	3734776	9.57E-09	4.38E-08	9.57E-11	5.34E-08	1.31E-09	5.99E-09	1.43E-11	7.31E-09	8.05E-10	2.75E-09	3.31E-12	3.56E-09
3249	420772.4	3734780	8.57E-09	3.92E-08	8.57E-11	4.79E-08	1.18E-09	5.36E-09	1.28E-11	6.55E-09	7.21E-10	2.46E-09	2.96E-12	3.19E-09
3250	420763.4	3734784	7.61E-09	3.48E-08	7.61E-11	4.25E-08	1.04E-09	4.76E-09	1.13E-11	5.82E-09	6.41E-10	2.19E-09	2.63E-12	2.83E-09
3251	420754.5	3734787	6.71E-09	3.07E-08	6.71E-11	3.75E-08	9.20E-10	4.20E-09	9.99E-12	5.13E-09	5.65E-10	1.93E-09	2.32E-12	2.50E-09
3252	420745.5	3734791	5.88E-09	2.69E-08	5.88E-11	3.28E-08	8.06E-10	3.68E-09	8.76E-12	4.49E-09	4.95E-10	1.69E-09	2.03E-12	2.19E-09
3253	420993	3734532	7.82E-09	3.57E-08	7.81E-11	4.36E-08	1.07E-09	4.89E-09	1.16E-11	5.97E-09	6.58E-10	2.25E-09	2.70E-12	2.91E-09
3254	420993.2	3734522	7.32E-09	3.35E-08	7.32E-11	4.09E-08	1.00E-09	4.58E-09	1.09E-11	5.59E-09	6.16E-10	2.10E-09	2.53E-12	2.72E-09
3255	420993.5	3734512	6.81E-09	3.12E-08	6.81E-11	3.80E-08	9.34E-10	4.26E-09	1.01E-11	5.21E-09	5.73E-10	1.96E-09	2.35E-12	2.53E-09
3256	420992.9	3734588	1.00E-08	4.59E-08	1.00E-10	5.60E-08	1.38E-09	6.28E-09	1.49E-11	7.67E-09	8.45E-10	2.89E-09	3.47E-12	3.73E-09
3257	420988.9	3734597	1.07E-08	4.89E-08	1.07E-10	5.97E-08	1.47E-09	6.69E-09	1.59E-11	8.17E-09	9.00E-10	3.07E-09	3.70E-12	3.98E-09
3258	420985	3734606	1.13E-08	5.18E-08	1.13E-10	6.33E-08	1.55E-09	7.09E-09	1.69E-11	8.66E-09	9.54E-10	3.26E-09	3.92E-12	4.22E-09
3259	420981	3734615	1.20E-08	5.46E-08	1.19E-10	6.67E-08	1.64E-09	7.47E-09	1.78E-11	9.13E-09	1.01E-09	3.43E-09	4.13E-12	4.44E-09
3260	420977.1	3734625	1.25E-08	5.73E-08	1.25E-10	7.00E-08	1.72E-09	7.84E-09	1.87E-11	9.58E-09	1.06E-09	3.60E-09	4.33E-12	4.66E-09
3261	420973.1	3734634	1.31E-08	5.99E-08	1.31E-10	7.31E-08	1.79E-09	8.18E-09	1.95E-11	1.00E-08	1.10E-09	3.76E-09	4.52E-12	4.87E-09
3262	420969.2	3734643	1.36E-08	6.22E-08	1.36E-10	7.59E-08	1.86E-09	8.50E-09	2.02E-11	1.04E-08	1.14E-09	3.91E-09	4.70E-12	5.05E-09
3263	420965.2	3734652	1.40E-08	6.41E-08	1.40E-10	7.83E-08	1.92E-09	8.77E-09	2.09E-11	1.07E-08	1.18E-09	4.03E-09	4.85E-12	5.21E-09
3264	420961.2	3734661	1.44E-08	6.56E-08	1.43E-10	8.01E-08	1.97E-09	8.97E-09	2.14E-11	1.10E-08	1.21E-09	4.12E-09	4.96E-12	5.34E-09
3265	420957.3	3734670	1.46E-08	6.66E-08	1.46E-10	8.14E-08	2.00E-09	9.11E-09	2.17E-11	1.11E-08	1.23E-09	4.19E-09	5.04E-12	5.42E-09
3266	420953.3	3734679	1.47E-08	6.73E-08	1.47E-10	8.22E-08	2.02E-09	9.21E-09	2.19E-11	1.12E-08	1.24E-09	4.23E-09	5.09E-12	5.48E-09
3267	420949.4	3734688	1.48E-08	6.77E-08	1.48E-10	8.26E-08	2.03E-09	9.26E-09	2.20E-11	1.13E-08	1.25E-09	4.25E-09	5.12E-12	5.50E-09
3268	420945.4	3734698	1.48E-08	6.77E-08	1.48E-10	8.27E-08	2.03E-09	9.26E-09	2.20E-11	1.13E-08	1.25E-09	4.25E-09	5.12E-12	5.51E-09
3269	420941.4	3734707	1.47E-08	6.74E-08	1.47E-10	8.22E-08	2.02E-09	9.21E-09	2.19E-11	1.13E-08	1.24E-09	4.23E-09	5.09E-12	5.48E-09
3270	420937.5	3734716	1.45E-08	6.64E-08	1.45E-10	8.11E-08	1.99E-09	9.08E-09	2.16E-11	1.11E-08	1.22E-09	4.17E-09	5.02E-12	5.40E-09
3271	420933.5	3734725	1.43E-08	6.52E-08	1.42E-10	7.96E-08	1.95E-09	8.91E-09	2.12E-11	1.09E-08	1.20E-09	4.10E-09	4.93E-12	5.30E-09
3272	420883.7	3734753	1.48E-08	6.76E-08	1.48E-10	8.26E-08	2.03E-09	9.25E-09	2.20E-11	1.13E-08	1.24E-09	4.25E-09	5.11E-12	5.50E-09
3273	420874.5	3734757	1.47E-08	6.71E-08	1.47E-10	8.19E-08	2.01E-09	9.17E-09	2.18E-11	1.12E-08	1.23E-09	4.21E-09	5.07E-12	5.45E-09
3274	420865.3	3734761	1.44E-08	6.59E-08	1.44E-10	8.05E-08	1.98E-09	9.01E-09	2.15E-11	1.10E-08	1.21E-09	4.14E-09	4.98E-12	5.36E-09
3275	420856.2	3734765	1.40E-08	6.42E-08	1.40E-10	7.84E-08	1.92E-09	8.78E-09	2.09E-11	1.07E-08	1.18E-09	4.03E-09	4.85E-12	5.22E-09
3276	420847	3734769	1.35E-08	6.18E-08	1.35E-10	7.55E-08	1.85E-09	8.45E-09	2.01E-11	1.03E-08	1.14E-09	3.88E-09	4.67E-12	5.03E-09
3277	420837.8	3734773	1.29E-08	5.89E-08	1.29E-10	7.19E-08	1.77E-09	8.05E-09	1.92E-11	9.84E-09	1.08E-09	3.70E-09	4.45E-12	4.79E-09
3278	420828.6	3734776	1.22E-08	5.57E-08	1.22E-10	6.80E-08	1.67E-09	7.61E-09	1.81E-11	9.30E-09	1.02E-09	3.50E-09	4.21E-12	4.53E-09
3279	420819.5	3734780	1.14E-08	5.21E-08	1.14E-10	6.36E-08	1.56E-09	7.12E-09	1.70E-11	8.70E-09	9.59E-10	3.27E-09	3.94E-12	4.24E-09
3280	420810.3	3734784	1.06E-08	4.83E-08	1.06E-10	5.89E-08	1.45E-09	6.60E-09	1.57E-11	8.06E-09	8.88E-10	3.03E-09	3.65E-12	3.92E-09
3281	420801.1	3734788	9.72E-09	4.44E-08	9.71E-11	5.42E-08	1.33E-09	6.08E-09	1.45E-11	7.42E-09	8.18E-10	2.79E-09	3.36E-12	3.61E-09

3282	420791.9	3734792	8.86E-09	4.05E-08	8.86E-11	4.95E-08	1.21E-09	5.54E-09	1.32E-11	6.77E-09	7.46E-10	2.55E-09	3.06E-12	3.30E-09
3283	420782.7	3734796	7.99E-09	3.65E-08	7.99E-11	4.46E-08	1.10E-09	5.00E-09	1.19E-11	6.11E-09	6.72E-10	2.30E-09	2.76E-12	2.97E-09
3284	420773.6	3734800	7.15E-09	3.27E-08	7.15E-11	3.99E-08	9.80E-10	4.47E-09	1.06E-11	5.46E-09	6.02E-10	2.05E-09	2.47E-12	2.66E-09
3285	420764.4	3734803	6.35E-09	2.90E-08	6.35E-11	3.54E-08	8.70E-10	3.97E-09	9.45E-12	4.85E-09	5.34E-10	1.82E-09	2.19E-12	2.36E-09
3286	420755.2	3734807	5.60E-09	2.56E-08	5.60E-11	3.13E-08	7.68E-10	3.50E-09	8.34E-12	4.28E-09	4.71E-10	1.61E-09	1.94E-12	2.08E-09
3287	420746	3734811	4.91E-09	2.25E-08	4.91E-11	2.74E-08	6.74E-10	3.07E-09	7.32E-12	3.75E-09	4.14E-10	1.41E-09	1.70E-12	1.83E-09
3288	421013	3734532	6.59E-09	3.01E-08	6.59E-11	3.68E-08	9.04E-10	4.12E-09	9.81E-12	5.04E-09	5.55E-10	1.89E-09	2.28E-12	2.45E-09
3289	421013.2	3734522	6.18E-09	2.83E-08	6.18E-11	3.45E-08	8.47E-10	3.86E-09	9.20E-12	4.72E-09	5.20E-10	1.78E-09	2.14E-12	2.30E-09
3290	421013.5	3734512	5.75E-09	2.63E-08	5.75E-11	3.21E-08	7.88E-10	3.60E-09	8.56E-12	4.39E-09	4.84E-10	1.65E-09	1.99E-12	2.14E-09
3291	421024.9	3734561	6.94E-09	3.17E-08	6.94E-11	3.88E-08	9.52E-10	4.34E-09	1.03E-11	5.30E-09	5.84E-10	1.99E-09	2.40E-12	2.58E-09
3292	421021.1	3734570	7.45E-09	3.41E-08	7.44E-11	4.16E-08	1.02E-09	4.66E-09	1.11E-11	5.69E-09	6.27E-10	2.14E-09	2.57E-12	2.77E-09
3293	421017.2	3734579	7.95E-09	3.64E-08	7.95E-11	4.44E-08	1.09E-09	4.97E-09	1.18E-11	6.07E-09	6.69E-10	2.29E-09	2.75E-12	2.96E-09
3294	420994	3734632	1.10E-08	5.04E-08	1.10E-10	6.15E-08	1.51E-09	6.89E-09	1.64E-11	8.42E-09	9.27E-10	3.17E-09	3.81E-12	4.10E-09
3295	420990.1	3734641	1.15E-08	5.24E-08	1.15E-10	6.40E-08	1.57E-09	7.16E-09	1.71E-11	8.75E-09	9.64E-10	3.29E-09	3.96E-12	4.26E-09
3296	420986.2	3734650	1.19E-08	5.44E-08	1.19E-10	6.64E-08	1.63E-09	7.44E-09	1.77E-11	9.08E-09	1.00E-09	3.42E-09	4.11E-12	4.42E-09
3297	420982.4	3734659	1.23E-08	5.61E-08	1.23E-10	6.85E-08	1.68E-09	7.67E-09	1.83E-11	9.37E-09	1.03E-09	3.53E-09	4.24E-12	4.56E-09
3298	420978.5	3734668	1.26E-08	5.74E-08	1.25E-10	7.01E-08	1.72E-09	7.85E-09	1.87E-11	9.59E-09	1.06E-09	3.61E-09	4.34E-12	4.67E-09
3299	420974.6	3734677	1.28E-08	5.84E-08	1.28E-10	7.13E-08	1.75E-09	7.98E-09	1.90E-11	9.75E-09	1.07E-09	3.67E-09	4.41E-12	4.75E-09
3300	420970.7	3734686	1.29E-08	5.91E-08	1.29E-10	7.21E-08	1.77E-09	8.08E-09	1.92E-11	9.87E-09	1.09E-09	3.71E-09	4.46E-12	4.80E-09
3301	420966.9	3734695	1.30E-08	5.95E-08	1.30E-10	7.27E-08	1.78E-09	8.14E-09	1.94E-11	9.94E-09	1.10E-09	3.74E-09	4.50E-12	4.84E-09
3302	420963	3734704	1.31E-08	5.97E-08	1.31E-10	7.29E-08	1.79E-09	8.17E-09	1.94E-11	9.98E-09	1.10E-09	3.75E-09	4.51E-12	4.86E-09
3303	420959.1	3734713	1.30E-08	5.95E-08	1.30E-10	7.26E-08	1.78E-09	8.13E-09	1.94E-11	9.94E-09	1.09E-09	3.74E-09	4.50E-12	4.84E-09
3304	420955.2	3734722	1.29E-08	5.89E-08	1.29E-10	7.19E-08	1.77E-09	8.05E-09	1.92E-11	9.84E-09	1.08E-09	3.70E-09	4.45E-12	4.79E-09
3305	420951.4	3734731	1.27E-08	5.81E-08	1.27E-10	7.09E-08	1.74E-09	7.94E-09	1.89E-11	9.70E-09	1.07E-09	3.65E-09	4.39E-12	4.72E-09
3306	420934.7	3734752	1.25E-08	5.73E-08	1.25E-10	6.99E-08	1.72E-09	7.83E-09	1.86E-11	9.57E-09	1.05E-09	3.60E-09	4.33E-12	4.66E-09
3307	420925.7	3734756	1.28E-08	5.83E-08	1.28E-10	7.12E-08	1.75E-09	7.98E-09	1.90E-11	9.75E-09	1.07E-09	3.67E-09	4.41E-12	4.75E-09
3308	420916.7	3734760	1.29E-08	5.92E-08	1.29E-10	7.22E-08	1.77E-09	8.09E-09	1.93E-11	9.88E-09	1.09E-09	3.72E-09	4.47E-12	4.81E-09
3309	420907.7	3734763	1.31E-08	5.97E-08	1.30E-10	7.29E-08	1.79E-09	8.16E-09	1.94E-11	9.97E-09	1.10E-09	3.75E-09	4.51E-12	4.85E-09
3310	420898.7	3734767	1.32E-08	6.02E-08	1.32E-10	7.35E-08	1.80E-09	8.23E-09	1.96E-11	1.01E-08	1.11E-09	3.78E-09	4.55E-12	4.90E-09
3311	420889.8	3734771	1.31E-08	5.99E-08	1.31E-10	7.32E-08	1.80E-09	8.19E-09	1.95E-11	1.00E-08	1.10E-09	3.77E-09	4.53E-12	4.87E-09
3312	420880.8	3734775	1.29E-08	5.92E-08	1.29E-10	7.22E-08	1.77E-09	8.09E-09	1.93E-11	9.88E-09	1.09E-09	3.72E-09	4.47E-12	4.81E-09
3313	420871.8	3734778	1.27E-08	5.80E-08	1.27E-10	7.08E-08	1.74E-09	7.93E-09	1.89E-11	9.68E-09	1.07E-09	3.64E-09	4.38E-12	4.71E-09
3314	420862.8	3734782	1.23E-08	5.63E-08	1.23E-10	6.88E-08	1.69E-09	7.70E-09	1.83E-11	9.41E-09	1.04E-09	3.54E-09	4.26E-12	4.58E-09
3315	420853.9	3734786	1.19E-08	5.43E-08	1.19E-10	6.63E-08	1.63E-09	7.43E-09	1.77E-11	9.07E-09	9.99E-10	3.41E-09	4.10E-12	4.42E-09
3316	420844.9	3734790	1.13E-08	5.18E-08	1.13E-10	6.33E-08	1.55E-09	7.09E-09	1.69E-11	8.66E-09	9.54E-10	3.26E-09	3.92E-12	4.22E-09
3317	420835.9	3734794	1.07E-08	4.91E-08	1.07E-10	5.99E-08	1.47E-09	6.71E-09	1.60E-11	8.20E-09	9.03E-10	3.08E-09	3.71E-12	3.99E-09
3318	420826.9	3734797	1.01E-08	4.61E-08	1.01E-10	5.63E-08	1.38E-09	6.31E-09	1.50E-11	7.70E-09	8.49E-10	2.90E-09	3.49E-12	3.75E-09
3319	420817.9	3734801	9.40E-09	4.30E-08	9.39E-11	5.24E-08	1.29E-09	5.87E-09	1.40E-11	7.18E-09	7.90E-10	2.70E-09	3.25E-12	3.49E-09
3320	420809	3734805	8.68E-09	3.97E-08	8.68E-11	4.85E-08	1.19E-09	5.43E-09	1.29E-11	6.63E-09	7.30E-10	2.49E-09	3.00E-12	3.23E-09
3321	420800	3734809	7.96E-09	3.64E-08	7.96E-11	4.45E-08	1.09E-09	4.98E-09	1.19E-11	6.08E-09	6.70E-10	2.29E-09	2.75E-12	2.96E-09
3322	420791	3734812	7.24E-09	3.31E-08	7.24E-11	4.04E-08	9.93E-10	4.53E-09	1.08E-11	5.53E-09	6.10E-10	2.08E-09	2.50E-12	2.69E-09
3323	420782	3734816	6.54E-09	2.99E-08	6.53E-11	3.65E-08	8.96E-10	4.09E-09	9.73E-12	4.99E-09	5.50E-10	1.88E-09	2.26E-12	2.43E-09
3324	420773.1	3734820	5.87E-09	2.68E-08	5.87E-11	3.28E-08	8.05E-10	3.67E-09	8.74E-12	4.49E-09	4.94E-10	1.69E-09	2.03E-12	2.18E-09
3325	420764.1	3734824	5.26E-09	2.41E-08	5.26E-11	2.94E-08	7.21E-10	3.29E-09	7.83E-12	4.02E-09	4.43E-10	1.51E-09	1.82E-12	1.96E-09
3326	420755.1	3734827	4.67E-09	2.14E-08	4.67E-11	2.61E-08	6.40E-10	2.92E-09	6.95E-12	3.57E-09	3.93E-10	1.34E-09	1.61E-12	1.74E-09
3327	420746.1	3734831	4.10E-09	1.88E-08	4.10E-11	2.29E-08	5.62E-10	2.56E-09	6.10E-12	3.13E-09	3.45E-10	1.18E-09	1.42E-12	1.52E-09
3328	421033	3734533	5.60E-09	2.56E-08	5.59E-11	3.12E-08	7.67E-10	3.50E-09	8.33E-12	4.28E-09	4.71E-10	1.61E-09	1.93E-12	2.08E-09
3329	421033.2	3734523	5.24E-09	2.40E-08	5.24E-11	2.93E-08	7.19E-10	3.28E-09	7.81E-12	4.00E-09	4.41E-10	1.51E-09	1.81E-12	1.95E-09
3330	421033.5	3734513	4.89E-09	2.24E-08	4.89E-11	2.73E-08	6.70E-10	3.06E-09	7.28E-12	3.74E-09	4.11E-10	1.41E-09	1.69E-12	1.82E-09
3331	421064.9	3734562	5.17E-09	2.36E-08	5.17E-11	2.89E-08	7.09E-10	3.23E-09	7.70E-12	3.95E-09	4.35E-10	1.49E-09	1.79E-12	1.92E-09
3332	421061	3734571	5.55E-09	2.54E-08	5.54E-11	3.10E-08	7.60E-10	3.47E-09	8.25E-12	4.24E-09	4.67E-10	1.59E-09	1.92E-12	2.06E-09
3333	421057.1	3734580	5.92E-09	2.71E-08	5.92E-11	3.31E-08	8.12E-10	3.70E-09	8.82E-12	4.53E-09	4.98E-10	1.70E-09	2.05E-12	2.20E-09
3334	421053.3	3734589	6.31E-09	2.88E-08	6.31E-11	3.52E-08	8.65E-10	3.94E-09	9.39E-12	4.82E-09	5.31E-10	1.81E-09	2.18E-12	2.35E-09
3335	421049.4	3734598	6.69E-09	3.06E-08	6.69E-11	3.74E-08	9.17E-10	4.18E-09	9.96E-12	5.11E-09	5.63E-10	1.92E-09	2.31E-12	2.49E-09
3336	421045.5	3734607	7.07E-09	3.23E-08	7.07E-11	3.95E-08	9.69E-10	4.42E-09	1.05E-11	5.40E-09	5.95E-10	2.03E-09	2.44E-12	2.63E-09
3337	421041.6	3734616	7.45E-09	3.40E-08	7.44E-11	4.16E-08	1.02E-09	4.66E-09	1.11E-11	5.69E-09	6.27E-10	2.14E-09	2.57E-12	2.77E-09
3338	421037.7	3734625	7.82E-09	3.57E-08	7.81E-11	4.36E-08	1.07E-09	4.89E-09	1.16E-11	5.97E-09	6.58E-10	2.25E-09	2.70E-12	2.91E-09
3339	421033.9	3734634	8.18E-09	3.74E-08	8.17E-11	4.56E-08	1.12E-09	5.11E-09	1.22E-11	6.24E-09	6.88E-10	2.35E-09	2.83E-12	3.04E-09
3340	421030	3734643	8.52E-09	3.89E-08	8.51E-11	4.75E-08	1.17E-09	5.33E-09	1.27E-11	6.51E-09	7.17E-10	2.45E-09	2.94E-12	3.17E-09
3341	421026.1	3734651	8.83E-09	4.04E-08	8.82E-11	4.93E-08	1.21E-09	5.52E-09	1.31E-11	6.74E-09	7.43E-10	2.54E-09	3.05E-12	3.28E-09
3342	421022.2	3734660	9.11E-09	4.17E-08	9.11E-11	5.09E-08	1.25E-09	5.70E-09	1.36E-11	6.96E-09	7.67E-10	2.62E-09	3.15E-12	3.39E-09
3343	421018.3	3734669	9.38E-09	4.29E-08	9.37E-11	5.23E-08	1.29E-09	5.86E-09	1.40E-11	7.16E-09	7.89E-10	2.69E-09	3.24E-12	3.49E-09
3344	421014.4	3734678	9.64E-09	4.41E-08	9.64E-11	5.38E-08	1.32E-09	6.03E-09	1.44E-11	7.37E-09	8.11E-10	2.77E-09	3.33E-12	3.59E-09
3345	420995	3734723	1.02E-08	4.68E-08	1.02E-10	5.72E-08	1.40E-09	6.40E-09	1.52E-11	7.82E-09	8.62E-10	2.94E-09	3.54E-12	3.81E-09
3346	420983.4	3734750	1.00E-08	4.59E-08	1.00E-10	5.61E-08	1.38E-09	6.28E-09	1.50E-11	7.68E-09	8.46E-10	2.89E-09	3.47E-12	3.74E-09
3347	420979.5	3734759	9.92E-09	4.54E-08	9.92E-11	5.54E-08	1.36E-09	6.20E-09	1.48E-11	7.58E-09	8.35E-10	2.85E-09	3.43E-12	3.69E-09
3348	420975.6	3734768	9.77E-09	4.47E-08	9.76E-11	5.45E-08	1.34E-09	6.11E-09	1.45E-11	7.46E-09	8.22E-10	2.81E-09	3.38E-12	3.63E-09
3349	420962.7	3734781	9.87E-09	4.51E-08	9.86E-11	5.51E-08	1.35E-09	6.17E-09	1.47E-11	7.54E-09	8.30E-10	2.83E-09	3.41E-12	3.67E-09
3350	420953.7	3734784	1.01E-08	4.61E-08	1.01E-10	5.63E-08	1.38E-09	6.30E-09	1.50E-11	7.70E-09	8.48E-10	2.90E-09	3.48E-12	3.75E-09
3351	420944.7	3734788	1.03E-08	4.69E-08	1.03E-10	5.73E-08	1.41E-09	6.41E-09	1.53E-11	7.83E-09	8.63E-10	2.95E-09	3.54E-12	3.81E-09
3352	420935.7	3734792	1.04E-08	4.75E-08	1.04E-10	5.80E-08	1.42E-09	6.50E-09	1.55E-11	7.94E-09	8.74E-10	2.99E-09	3.59E-12	3.86E-09
3353	420926.7	3734796	1.05E-08	4.78E-08	1.05E-10	5.84E-08	1.43E-09	6.54E-09	1.56E-11	7.99E-09	8.80E-10	3.01E-09	3.62E-12	3.89E-09
3354	420917.7	3734799	1.05E-08	4.79E-08	1.05E-10	5.84E-08	1.44E-09	6.55E-09	1.56E-11	8.00E-09	8.81E-10	3.01E-09	3.62E-12	3.89E-09

3355	420908.7	3734803	1.04E-08	4.76E-08	1.04E-10	5.81E-08	1.43E-09	6.51E-09	1.55E-11	7.95E-09	8.76E-10	2.99E-09	3.60E-12	3.87E-09
3356	420899.7	3734807	1.03E-08	4.71E-08	1.03E-10	5.75E-08	1.41E-09	6.44E-09	1.53E-11	7.86E-09	8.66E-10	2.96E-09	3.56E-12	3.83E-09
3357	420890.7	3734811	1.01E-08	4.62E-08	1.01E-10	5.64E-08	1.38E-09	6.32E-09	1.50E-11	7.72E-09	8.50E-10	2.90E-09	3.49E-12	3.76E-09
3358	420881.7	3734815	9.84E-09	4.50E-08	9.84E-11	5.49E-08	1.35E-09	6.15E-09	1.47E-11	7.52E-09	8.28E-10	2.83E-09	3.40E-12	3.66E-09
3359	420872.7	3734818	9.52E-09	4.35E-08	9.52E-11	5.31E-08	1.31E-09	5.95E-09	1.42E-11	7.27E-09	8.01E-10	2.74E-09	3.29E-12	3.54E-09
3360	420863.7	3734822	9.15E-09	4.18E-08	9.14E-11	5.10E-08	1.25E-09	5.72E-09	1.36E-11	6.98E-09	7.69E-10	2.63E-09	3.16E-12	3.40E-09
3361	420854.7	3734826	8.72E-09	3.99E-08	8.72E-11	4.87E-08	1.20E-09	5.45E-09	1.30E-11	6.66E-09	7.34E-10	2.51E-09	3.01E-12	3.24E-09
3362	420845.7	3734830	8.26E-09	3.78E-08	8.26E-11	4.61E-08	1.13E-09	5.17E-09	1.23E-11	6.31E-09	6.95E-10	2.37E-09	2.86E-12	3.07E-09
3363	420836.7	3734833	7.77E-09	3.55E-08	7.76E-11	4.34E-08	1.06E-09	4.86E-09	1.16E-11	5.93E-09	6.54E-10	2.23E-09	2.68E-12	2.89E-09
3364	420827.7	3734837	7.25E-09	3.32E-08	7.25E-11	4.05E-08	9.94E-10	4.53E-09	1.08E-11	5.54E-09	6.10E-10	2.08E-09	2.51E-12	2.70E-09
3365	420818.7	3734841	6.72E-09	3.07E-08	6.72E-11	3.75E-08	9.21E-10	4.20E-09	1.00E-11	5.13E-09	5.65E-10	1.93E-09	2.32E-12	2.50E-09
3366	420809.7	3734845	6.19E-09	2.83E-08	6.18E-11	3.45E-08	8.48E-10	3.87E-09	9.21E-12	4.73E-09	5.21E-10	1.78E-09	2.14E-12	2.30E-09
3367	420800.7	3734849	5.66E-09	2.59E-08	5.66E-11	3.16E-08	7.76E-10	3.54E-09	8.43E-12	4.32E-09	4.76E-10	1.63E-09	1.96E-12	2.10E-09
3368	420791.7	3734852	5.15E-09	2.35E-08	5.14E-11	2.87E-08	7.06E-10	3.22E-09	7.66E-12	3.93E-09	4.33E-10	1.48E-09	1.78E-12	1.91E-09
3369	420782.7	3734856	4.65E-09	2.13E-08	4.65E-11	2.60E-08	6.38E-10	2.91E-09	6.93E-12	3.55E-09	3.92E-10	1.34E-09	1.61E-12	1.73E-09
3370	420773.7	3734860	4.18E-09	1.91E-08	4.18E-11	2.33E-08	5.73E-10	2.61E-09	6.23E-12	3.19E-09	3.52E-10	1.20E-09	1.45E-12	1.56E-09
3371	420764.7	3734864	3.74E-09	1.71E-08	3.73E-11	2.09E-08	5.12E-10	2.34E-09	5.56E-12	2.85E-09	3.14E-10	1.07E-09	1.29E-12	1.39E-09
3372	420755.7	3734867	3.32E-09	1.52E-08	3.32E-11	1.85E-08	4.55E-10	2.08E-09	4.94E-12	2.54E-09	2.79E-10	9.54E-10	1.15E-12	1.23E-09
3373	420746.7	3734871	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	4.36E-12	2.24E-09	2.46E-10	8.42E-10	1.01E-12	1.09E-09
3374	421072.9	3734534	4.20E-09	1.92E-08	4.20E-11	2.34E-08	5.76E-10	2.62E-09	6.25E-12	3.21E-09	3.53E-10	1.21E-09	1.45E-12	1.56E-09
3375	421073.2	3734524	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	5.86E-12	3.01E-09	3.31E-10	1.13E-09	1.36E-12	1.46E-09
3376	421073.5	3734514	3.68E-09	1.68E-08	3.68E-11	2.06E-08	5.05E-10	2.30E-09	5.48E-12	2.81E-09	3.10E-10	1.06E-09	1.27E-12	1.37E-09
3377	421089.3	3734599	5.12E-09	2.34E-08	5.11E-11	2.86E-08	7.01E-10	3.20E-09	7.62E-12	3.91E-09	4.30E-10	1.47E-09	1.77E-12	1.90E-09
3378	421085.4	3734608	5.41E-09	2.47E-08	5.41E-11	3.02E-08	7.42E-10	3.38E-09	8.05E-12	4.13E-09	4.55E-10	1.55E-09	1.87E-12	2.01E-09
3379	421081.5	3734617	5.68E-09	2.60E-08	5.68E-11	3.17E-08	7.79E-10	3.55E-09	8.46E-12	4.34E-09	4.78E-10	1.63E-09	1.96E-12	2.11E-09
3380	421077.7	3734626	5.95E-09	2.72E-08	5.95E-11	3.32E-08	8.15E-10	3.72E-09	8.86E-12	4.54E-09	5.00E-10	1.71E-09	2.06E-12	2.21E-09
3381	421073.8	3734635	6.21E-09	2.84E-08	6.21E-11	3.47E-08	8.52E-10	3.88E-09	9.25E-12	4.74E-09	5.23E-10	1.78E-09	2.15E-12	2.31E-09
3382	421069.9	3734644	6.47E-09	2.96E-08	6.47E-11	3.61E-08	8.87E-10	4.05E-09	9.64E-12	4.94E-09	5.45E-10	1.86E-09	2.24E-12	2.41E-09
3383	421066	3734653	6.73E-09	3.08E-08	6.73E-11	3.76E-08	9.23E-10	4.21E-09	1.00E-11	5.14E-09	5.66E-10	1.93E-09	2.33E-12	2.50E-09
3384	421062.1	3734662	6.97E-09	3.19E-08	6.97E-11	3.89E-08	9.56E-10	4.36E-09	1.04E-11	5.33E-09	5.87E-10	2.00E-09	2.41E-12	2.59E-09
3385	421058.2	3734671	7.20E-09	3.29E-08	7.19E-11	4.02E-08	9.87E-10	4.50E-09	1.07E-11	5.50E-09	6.06E-10	2.07E-09	2.49E-12	2.68E-09
3386	421054.3	3734680	7.41E-09	3.39E-08	7.40E-11	4.13E-08	1.02E-09	4.63E-09	1.10E-11	5.66E-09	6.23E-10	2.13E-09	2.56E-12	2.75E-09
3387	421050.4	3734689	7.59E-09	3.47E-08	7.59E-11	4.24E-08	1.04E-09	4.75E-09	1.13E-11	5.80E-09	6.39E-10	2.18E-09	2.62E-12	2.82E-09
3388	421046.5	3734698	7.77E-09	3.55E-08	7.76E-11	4.34E-08	1.06E-09	4.86E-09	1.16E-11	5.93E-09	6.53E-10	2.23E-09	2.68E-12	2.89E-09
3389	421042.6	3734707	7.94E-09	3.63E-08	7.93E-11	4.43E-08	1.09E-09	4.96E-09	1.18E-11	6.06E-09	6.68E-10	2.28E-09	2.74E-12	2.95E-09
3390	421038.8	3734716	8.08E-09	3.69E-08	8.08E-11	4.51E-08	1.11E-09	5.05E-09	1.20E-11	6.17E-09	6.80E-10	2.32E-09	2.79E-12	3.00E-09
3391	421034.9	3734725	8.18E-09	3.74E-08	8.18E-11	4.57E-08	1.12E-09	5.12E-09	1.22E-11	6.25E-09	6.89E-10	2.35E-09	2.83E-12	3.04E-09
3392	421023.2	3734751	8.24E-09	3.77E-08	8.24E-11	4.60E-08	1.13E-09	5.15E-09	1.23E-11	6.30E-09	6.93E-10	2.37E-09	2.85E-12	3.06E-09
3393	421019.3	3734760	8.21E-09	3.76E-08	8.21E-11	4.58E-08	1.13E-09	5.14E-09	1.22E-11	6.27E-09	6.91E-10	2.36E-09	2.84E-12	3.05E-09
3394	420990.8	3734809	7.96E-09	3.64E-08	7.95E-11	4.44E-08	1.09E-09	4.98E-09	1.18E-11	6.08E-09	6.70E-10	2.29E-09	2.75E-12	2.96E-09
3395	420981.8	3734813	8.11E-09	3.71E-08	8.11E-11	4.53E-08	1.11E-09	5.07E-09	1.21E-11	6.20E-09	6.83E-10	2.33E-09	2.80E-12	3.02E-09
3396	420972.8	3734817	8.25E-09	3.77E-08	8.24E-11	4.60E-08	1.13E-09	5.16E-09	1.23E-11	6.30E-09	6.94E-10	2.37E-09	2.85E-12	3.07E-09
3397	420963.8	3734820	8.35E-09	3.82E-08	8.35E-11	4.66E-08	1.14E-09	5.22E-09	1.24E-11	6.38E-09	7.03E-10	2.40E-09	2.89E-12	3.10E-09
3398	420954.8	3734824	8.44E-09	3.86E-08	8.43E-11	4.71E-08	1.16E-09	5.27E-09	1.26E-11	6.44E-09	7.10E-10	2.42E-09	2.91E-12	3.14E-09
3399	420945.7	3734828	8.49E-09	3.88E-08	8.48E-11	4.74E-08	1.16E-09	5.31E-09	1.26E-11	6.48E-09	7.14E-10	2.44E-09	2.93E-12	3.16E-09
3400	420936.7	3734832	8.49E-09	3.88E-08	8.49E-11	4.74E-08	1.16E-09	5.31E-09	1.26E-11	6.49E-09	7.14E-10	2.44E-09	2.93E-12	3.16E-09
3401	420927.7	3734836	8.45E-09	3.86E-08	8.45E-11	4.72E-08	1.16E-09	5.28E-09	1.26E-11	6.45E-09	7.11E-10	2.43E-09	2.92E-12	3.14E-09
3402	420918.7	3734839	8.36E-09	3.82E-08	8.35E-11	4.66E-08	1.15E-09	5.22E-09	1.24E-11	6.38E-09	7.03E-10	2.40E-09	2.89E-12	3.11E-09
3403	420909.7	3734843	8.22E-09	3.76E-08	8.21E-11	4.59E-08	1.13E-09	5.14E-09	1.22E-11	6.28E-09	6.91E-10	2.36E-09	2.84E-12	3.06E-09
3404	420900.6	3734847	8.04E-09	3.67E-08	8.03E-11	4.49E-08	1.10E-09	5.02E-09	1.20E-11	6.14E-09	6.76E-10	2.31E-09	2.78E-12	2.99E-09
3405	420891.6	3734851	7.80E-09	3.57E-08	7.80E-11	4.36E-08	1.07E-09	4.88E-09	1.16E-11	5.96E-09	6.56E-10	2.24E-09	2.70E-12	2.90E-09
3406	420882.6	3734854	7.53E-09	3.44E-08	7.52E-11	4.20E-08	1.03E-09	4.71E-09	1.12E-11	5.75E-09	6.33E-10	2.16E-09	2.60E-12	2.80E-09
3407	420873.6	3734858	7.22E-09	3.30E-08	7.21E-11	4.03E-08	9.90E-10	4.51E-09	1.07E-11	5.51E-09	6.07E-10	2.07E-09	2.49E-12	2.68E-09
3408	420864.6	3734862	6.88E-09	3.15E-08	6.88E-11	3.84E-08	9.43E-10	4.30E-09	1.02E-11	5.25E-09	5.79E-10	1.98E-09	2.38E-12	2.56E-09
3409	420855.6	3734866	6.51E-09	2.98E-08	6.51E-11	3.64E-08	8.93E-10	4.07E-09	9.70E-12	4.98E-09	5.48E-10	1.87E-09	2.25E-12	2.42E-09
3410	420846.5	3734870	6.13E-09	2.80E-08	6.13E-11	3.42E-08	8.41E-10	3.83E-09	9.13E-12	4.68E-09	5.16E-10	1.76E-09	2.12E-12	2.28E-09
3411	420837.5	3734873	5.74E-09	2.62E-08	5.73E-11	3.20E-08	7.86E-10	3.59E-09	8.54E-12	4.38E-09	4.83E-10	1.65E-09	1.98E-12	2.13E-09
3412	420828.5	3734877	5.33E-09	2.44E-08	5.33E-11	2.98E-08	7.31E-10	3.33E-09	7.94E-12	4.07E-09	4.49E-10	1.53E-09	1.84E-12	1.98E-09
3413	420819.5	3734881	4.93E-09	2.25E-08	4.93E-11	2.75E-08	6.76E-10	3.08E-09	7.34E-12	3.77E-09	4.15E-10	1.42E-09	1.70E-12	1.83E-09
3414	420810.5	3734885	4.53E-09	2.07E-08	4.53E-11	2.53E-08	6.21E-10	2.83E-09	6.74E-12	3.46E-09	3.81E-10	1.30E-09	1.56E-12	1.68E-09
3415	420801.4	3734888	4.14E-09	1.89E-08	4.14E-11	2.31E-08	5.68E-10	2.59E-09	6.16E-12	3.16E-09	3.48E-10	1.19E-09	1.43E-12	1.54E-09
3416	420792.4	3734892	3.77E-09	1.72E-08	3.77E-11	2.11E-08	5.17E-10	2.36E-09	5.61E-12	2.88E-09	3.17E-10	1.08E-09	1.30E-12	1.40E-09
3417	420783.4	3734896	3.43E-09	1.57E-08	3.42E-11	1.91E-08	4.70E-10	2.14E-09	5.10E-12	2.62E-09	2.88E-10	9.84E-10	1.18E-12	1.27E-09
3418	420774.4	3734900	3.09E-09	1.41E-08	3.09E-11	1.73E-08	4.24E-10	1.93E-09	4.61E-12	2.36E-09	2.60E-10	8.89E-10	1.07E-12	1.15E-09
3419	420765.4	3734904	2.79E-09	1.27E-08	2.78E-11	1.56E-08	3.82E-10	1.74E-09	4.15E-12	2.13E-09	2.34E-10	8.01E-10	9.63E-13	1.04E-09
3420	420756.3	3734907	2.50E-09	1.15E-08	2.50E-11	1.40E-08	3.43E-10	1.57E-09	3.73E-12	1.91E-09	2.11E-10	7.20E-10	8.65E-13	9.31E-10
3421	420747.3	3734911	2.24E-09	1.02E-08	2.24E-11	1.25E-08	3.07E-10	1.40E-09	3.33E-12	1.71E-09	1.88E-10	6.43E-10	7.73E-13	8.32E-10
3422	421144.9	3734564	3.06E-09	1.40E-08	3.06E-11	1.71E-08	4.20E-10	1.91E-09	4.56E-12	2.34E-09	2.58E-10	8.80E-10	1.06E-12	1.14E-09
3423	421141	3734573	3.28E-09	1.50E-08	3.28E-11	1.83E-08	4.50E-10	2.05E-09	4.89E-12	2.51E-09	2.76E-10	9.43E-10	1.13E-12	1.22E-09
3424	421137.1	3734582	3.51E-09	1.60E-08	3.50E-11	1.96E-08	4.81E-10	2.19E-09	5.22E-12	2.68E-09	2.95E-10	1.01E-09	1.21E-12	1.30E-09
3425	421133.2	3734591	3.73E-09	1.70E-08	3.73E-11	2.08E-08	5.11E-10	2.33E-09	5.55E-12	2.85E-09	3.14E-10	1.07E-09	1.29E-12	1.39E-09
3426	421129.3	3734600	3.96E-09	1.81E-08	3.96E-11	2.21E-08	5.43E-10	2.47E-09	5.89E-12	3.02E-09	3.33E-10	1.14E-09	1.37E-12	1.47E-09
3427	421125.4	3734609	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	6.24E-12	3.20E-09	3.53E-10	1.21E-09	1.45E-12	1.56E-09

3428	421121.5	3734618	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.76E-09	6.58E-12	3.37E-09	3.72E-10	1.27E-09	1.53E-12	1.64E-09
3429	421117.6	3734627	4.64E-09	2.12E-08	4.64E-11	2.59E-08	6.36E-10	2.90E-09	6.90E-12	3.54E-09	3.90E-10	1.33E-09	1.60E-12	1.72E-09
3430	421090.3	3734690	5.97E-09	2.73E-08	5.97E-11	3.33E-08	8.18E-10	3.73E-09	8.89E-12	4.56E-09	5.02E-10	1.72E-09	2.06E-12	2.22E-09
3431	421086.4	3734699	6.13E-09	2.80E-08	6.12E-11	3.42E-08	8.40E-10	3.83E-09	9.12E-12	4.68E-09	5.15E-10	1.76E-09	2.12E-12	2.28E-09
3432	421082.5	3734708	6.28E-09	2.87E-08	6.28E-11	3.51E-08	8.61E-10	3.93E-09	9.35E-12	4.80E-09	5.28E-10	1.80E-09	2.17E-12	2.34E-09
3433	421078.6	3734717	6.42E-09	2.94E-08	6.42E-11	3.59E-08	8.81E-10	4.02E-09	9.56E-12	4.91E-09	5.40E-10	1.85E-09	2.22E-12	2.39E-09
3434	421074.7	3734726	6.56E-09	3.00E-08	6.55E-11	3.66E-08	8.99E-10	4.10E-09	9.76E-12	5.01E-09	5.52E-10	1.88E-09	2.27E-12	2.44E-09
3435	421063	3734753	6.82E-09	3.12E-08	6.82E-11	3.81E-08	9.35E-10	4.26E-09	1.02E-11	5.21E-09	5.74E-10	1.96E-09	2.36E-12	2.54E-09
3436	421059.1	3734762	6.86E-09	3.13E-08	6.85E-11	3.83E-08	9.40E-10	4.29E-09	1.02E-11	5.24E-09	5.77E-10	1.97E-09	2.37E-12	2.55E-09
3437	421055.2	3734771	6.82E-09	3.12E-08	6.82E-11	3.81E-08	9.35E-10	4.27E-09	1.02E-11	5.21E-09	5.74E-10	1.96E-09	2.36E-12	2.54E-09
3438	421051.3	3734780	6.83E-09	3.12E-08	6.82E-11	3.81E-08	9.36E-10	4.27E-09	1.02E-11	5.22E-09	5.74E-10	1.96E-09	2.36E-12	2.54E-09
3439	421047.4	3734789	6.81E-09	3.12E-08	6.81E-11	3.80E-08	9.34E-10	4.26E-09	1.01E-11	5.20E-09	5.73E-10	1.96E-09	2.35E-12	2.53E-09
3440	421043.5	3734798	6.78E-09	3.10E-08	6.78E-11	3.79E-08	9.30E-10	4.24E-09	1.01E-11	5.18E-09	5.71E-10	1.95E-09	2.34E-12	2.52E-09
3441	421039.7	3734807	6.74E-09	3.08E-08	6.73E-11	3.76E-08	9.23E-10	4.21E-09	1.00E-11	5.14E-09	5.67E-10	1.94E-09	2.33E-12	2.50E-09
3442	421035.8	3734816	6.67E-09	3.05E-08	6.67E-11	3.73E-08	9.15E-10	4.17E-09	9.93E-12	5.10E-09	5.62E-10	1.92E-09	2.31E-12	2.48E-09
3443	421031.9	3734825	6.60E-09	3.02E-08	6.59E-11	3.68E-08	9.04E-10	4.12E-09	9.82E-12	5.04E-09	5.55E-10	1.90E-09	2.28E-12	2.45E-09
3444	421018.9	3734838	6.62E-09	3.02E-08	6.61E-11	3.69E-08	9.07E-10	4.14E-09	9.85E-12	5.05E-09	5.57E-10	1.90E-09	2.29E-12	2.46E-09
3445	420991.8	3734849	6.90E-09	3.16E-08	6.90E-11	3.85E-08	9.46E-10	4.32E-09	1.03E-11	5.27E-09	5.81E-10	1.98E-09	2.39E-12	2.57E-09
3446	420982.8	3734853	6.97E-09	3.19E-08	6.97E-11	3.89E-08	9.56E-10	4.36E-09	1.04E-11	5.33E-09	5.87E-10	2.00E-09	2.41E-12	2.59E-09
3447	420973.8	3734856	7.02E-09	3.21E-08	7.02E-11	3.92E-08	9.63E-10	4.39E-09	1.05E-11	5.36E-09	5.91E-10	2.02E-09	2.43E-12	2.61E-09
3448	420964.7	3734860	7.05E-09	3.22E-08	7.04E-11	3.93E-08	9.66E-10	4.40E-09	1.05E-11	5.38E-09	5.93E-10	2.02E-09	2.43E-12	2.62E-09
3449	420955.7	3734864	7.04E-09	3.22E-08	7.03E-11	3.93E-08	9.65E-10	4.40E-09	1.05E-11	5.38E-09	5.92E-10	2.02E-09	2.43E-12	2.62E-09
3450	420946.7	3734868	7.00E-09	3.20E-08	7.00E-11	3.91E-08	9.60E-10	4.38E-09	1.04E-11	5.35E-09	5.89E-10	2.01E-09	2.42E-12	2.60E-09
3451	420937.6	3734872	6.93E-09	3.17E-08	6.93E-11	3.87E-08	9.50E-10	4.33E-09	1.03E-11	5.29E-09	5.83E-10	1.99E-09	2.39E-12	2.58E-09
3452	420928.6	3734875	6.83E-09	3.12E-08	6.82E-11	3.81E-08	9.36E-10	4.27E-09	1.02E-11	5.21E-09	5.74E-10	1.96E-09	2.36E-12	2.54E-09
3453	420919.6	3734879	6.68E-09	3.05E-08	6.68E-11	3.73E-08	9.16E-10	4.18E-09	9.95E-12	5.10E-09	5.62E-10	1.92E-09	2.31E-12	2.48E-09
3454	420910.5	3734883	6.50E-09	2.97E-08	6.50E-11	3.63E-08	8.92E-10	4.07E-09	9.68E-12	4.97E-09	5.47E-10	1.87E-09	2.25E-12	2.42E-09
3455	420901.5	3734887	6.30E-09	2.88E-08	6.29E-11	3.51E-08	8.63E-10	3.94E-09	9.37E-12	4.81E-09	5.30E-10	1.81E-09	2.18E-12	2.34E-09
3456	420892.5	3734891	6.06E-09	2.77E-08	6.06E-11	3.38E-08	8.31E-10	3.79E-09	9.02E-12	4.63E-09	5.10E-10	1.74E-09	2.09E-12	2.25E-09
3457	420883.4	3734894	5.80E-09	2.65E-08	5.80E-11	3.24E-08	7.95E-10	3.63E-09	8.63E-12	4.43E-09	4.88E-10	1.67E-09	2.00E-12	2.16E-09
3458	420874.4	3734898	5.51E-09	2.52E-08	5.51E-11	3.08E-08	7.56E-10	3.45E-09	8.21E-12	4.21E-09	4.64E-10	1.58E-09	1.91E-12	2.05E-09
3459	420865.4	3734902	5.21E-09	2.38E-08	5.21E-11	2.91E-08	7.15E-10	3.26E-09	7.76E-12	3.98E-09	4.39E-10	1.50E-09	1.80E-12	1.94E-09
3460	420856.3	3734906	4.91E-09	2.24E-08	4.90E-11	2.74E-08	6.73E-10	3.07E-09	7.31E-12	3.75E-09	4.13E-10	1.41E-09	1.70E-12	1.82E-09
3461	420847.3	3734909	4.59E-09	2.10E-08	4.59E-11	2.56E-08	6.30E-10	2.87E-09	6.84E-12	3.51E-09	3.86E-10	1.32E-09	1.59E-12	1.71E-09
3462	420838.3	3734913	4.28E-09	1.96E-08	4.28E-11	2.39E-08	5.87E-10	2.68E-09	6.37E-12	3.27E-09	3.60E-10	1.23E-09	1.48E-12	1.59E-09
3463	420829.2	3734917	3.97E-09	1.82E-08	3.97E-11	2.22E-08	5.44E-10	2.48E-09	5.91E-12	3.03E-09	3.34E-10	1.14E-09	1.37E-12	1.48E-09
3464	420820.2	3734921	3.67E-09	1.68E-08	3.66E-11	2.05E-08	5.03E-10	2.29E-09	5.46E-12	2.80E-09	3.08E-10	1.05E-09	1.27E-12	1.36E-09
3465	420811.2	3734925	3.37E-09	1.54E-08	3.37E-11	1.88E-08	4.62E-10	2.11E-09	5.02E-12	2.57E-09	2.84E-10	9.68E-10	1.16E-12	1.25E-09
3466	420802.1	3734928	3.09E-09	1.41E-08	3.09E-11	1.73E-08	4.24E-10	1.93E-09	4.61E-12	2.36E-09	2.60E-10	8.89E-10	1.07E-12	1.15E-09
3467	420793.1	3734932	2.83E-09	1.30E-08	2.83E-11	1.58E-08	3.89E-10	1.77E-09	4.22E-12	2.17E-09	2.38E-10	8.15E-10	9.80E-13	1.05E-09
3468	420784.1	3734936	2.59E-09	1.18E-08	2.59E-11	1.45E-08	3.55E-10	1.62E-09	3.86E-12	1.98E-09	2.18E-10	7.44E-10	8.95E-13	9.63E-10
3469	420775	3734940	2.36E-09	1.08E-08	2.35E-11	1.32E-08	3.23E-10	1.47E-09	3.51E-12	1.80E-09	1.98E-10	6.77E-10	8.14E-13	8.76E-10
3470	420766	3734944	2.13E-09	9.76E-09	2.13E-11	1.19E-08	2.93E-10	1.33E-09	3.18E-12	1.63E-09	1.80E-10	6.13E-10	7.37E-13	7.93E-10
3471	420757	3734947	1.93E-09	8.82E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	2.87E-12	1.47E-09	1.62E-10	5.54E-10	6.67E-13	7.17E-10
3472	420747.9	3734951	1.74E-09	7.95E-09	1.74E-11	9.70E-09	2.38E-10	1.09E-09	2.59E-12	1.33E-09	1.46E-10	4.99E-10	6.01E-13	6.46E-10
3473	421152.9	3734536	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	3.77E-12	1.93E-09	2.13E-10	7.27E-10	8.75E-13	9.41E-10
3474	421153.2	3734526	2.40E-09	1.10E-08	2.40E-11	1.34E-08	3.29E-10	1.50E-09	3.57E-12	1.83E-09	2.02E-10	6.89E-10	8.29E-13	8.92E-10
3475	421153.4	3734516	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	3.38E-12	1.73E-09	1.91E-10	6.52E-10	7.84E-13	8.43E-10
3476	421184.8	3734565	2.41E-09	1.10E-08	2.41E-11	1.34E-08	3.30E-10	1.51E-09	3.58E-12	1.84E-09	2.03E-10	6.92E-10	8.32E-13	8.95E-10
3477	421180.9	3734574	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.96E-09	2.15E-10	7.36E-10	8.85E-13	9.52E-10
3478	421177	3734583	2.72E-09	1.24E-08	2.72E-11	1.52E-08	3.73E-10	1.70E-09	4.05E-12	2.08E-09	2.29E-10	7.82E-10	9.40E-13	1.01E-09
3479	421173.1	3734592	2.90E-09	1.33E-08	2.90E-11	1.62E-08	3.97E-10	1.81E-09	4.31E-12	2.21E-09	2.44E-10	8.33E-10	1.00E-12	1.08E-09
3480	421169.2	3734601	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.22E-10	1.93E-09	4.59E-12	2.35E-09	2.59E-10	8.85E-10	1.06E-12	1.15E-09
3481	421165.3	3734610	3.27E-09	1.49E-08	3.26E-11	1.82E-08	4.48E-10	2.04E-09	4.86E-12	2.49E-09	2.75E-10	9.38E-10	1.13E-12	1.21E-09
3482	421161.4	3734619	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	5.13E-12	2.63E-09	2.90E-10	9.90E-10	1.19E-12	1.28E-09
3483	421157.5	3734628	3.62E-09	1.66E-08	3.62E-11	2.02E-08	4.97E-10	2.27E-09	5.39E-12	2.77E-09	3.05E-10	1.04E-09	1.25E-12	1.35E-09
3484	421153.6	3734637	3.80E-09	1.74E-08	3.80E-11	2.12E-08	5.21E-10	2.38E-09	5.66E-12	2.91E-09	3.20E-10	1.09E-09	1.31E-12	1.41E-09
3485	421149.7	3734646	3.98E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.49E-09	5.92E-12	3.04E-09	3.35E-10	1.14E-09	1.37E-12	1.48E-09
3486	421145.8	3734655	4.14E-09	1.89E-08	4.14E-11	2.31E-08	5.68E-10	2.59E-09	6.17E-12	3.16E-09	3.48E-10	1.19E-09	1.43E-12	1.54E-09
3487	421141.9	3734664	4.30E-09	1.97E-08	4.30E-11	2.40E-08	5.90E-10	2.69E-09	6.40E-12	3.28E-09	3.62E-10	1.24E-09	1.49E-12	1.60E-09
3488	421138	3734673	4.46E-09	2.04E-08	4.46E-11	2.49E-08	6.11E-10	2.79E-09	6.64E-12	3.41E-09	3.75E-10	1.28E-09	1.54E-12	1.66E-09
3489	421134.1	3734682	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.33E-10	2.89E-09	6.88E-12	3.53E-09	3.89E-10	1.33E-09	1.60E-12	1.72E-09
3490	421130.2	3734691	4.77E-09	2.18E-08	4.77E-11	2.66E-08	6.54E-10	2.98E-09	7.11E-12	3.65E-09	4.02E-10	1.37E-09	1.65E-12	1.78E-09
3491	421126.3	3734700	4.92E-09	2.25E-08	4.91E-11	2.74E-08	6.74E-10	3.07E-09	7.32E-12	3.75E-09	4.14E-10	1.41E-09	1.70E-12	1.83E-09
3492	421122.4	3734709	5.05E-09	2.31E-08	5.05E-11	2.82E-08	6.92E-10	3.16E-09	7.52E-12	3.86E-09	4.25E-10	1.45E-09	1.75E-12	1.88E-09
3493	421118.5	3734718	5.18E-09	2.37E-08	5.18E-11	2.89E-08	7.10E-10	3.24E-09	7.71E-12	3.96E-09	4.36E-10	1.49E-09	1.79E-12	1.93E-09
3494	421091.2	3734781	5.73E-09	2.62E-08	5.72E-11	3.20E-08	7.85E-10	3.58E-09	8.52E-12	4.37E-09	4.82E-10	1.65E-09	1.98E-12	2.13E-09
3495	421087.3	3734790	5.75E-09	2.63E-08	5.75E-11	3.21E-08	7.88E-10	3.59E-09	8.56E-12	4.39E-09	4.84E-10	1.65E-09	1.99E-12	2.14E-09
3496	421083.4	3734799	5.75E-09	2.63E-08	5.74E-11	3.21E-08	7.88E-10	3.59E-09	8.55E-12	4.39E-09	4.83E-10	1.65E-09	1.99E-12	2.14E-09
3497	421079.5	3734808	5.73E-09	2.62E-08	5.73E-11	3.20E-08	7.86E-10	3.58E-09	8.53E-12	4.38E-09	4.82E-10	1.65E-09	1.98E-12	2.13E-09
3498	421075.6	3734817	5.71E-09	2.61E-08	5.71E-11	3.19E-08	7.83E-10	3.57E-09	8.50E-12	4.36E-09	4.81E-10	1.64E-09	1.97E-12	2.12E-09
3499	421071.7	3734826	5.68E-09	2.60E-08	5.67E-11	3.17E-08	7.78E-10	3.55E-09	8.45E-12	4.34E-09	4.78E-10	1.63E-09	1.96E-12	2.11E-09
3500	421067.8	3734835	5.63E-09	2.57E-08	5.63E-11	3.14E-08	7.72E-10	3.52E-09	8.38E-12	4.30E-09	4.74E-10	1.62E-09	1.95E-12	2.09E-09

3501	421063.9	3734844	5.58E-09	2.55E-08	5.58E-11	3.11E-08	7.65E-10	3.49E-09	8.30E-12	4.26E-09	4.69E-10	1.60E-09	1.93E-12	2.07E-09
3502	421060	3734853	5.52E-09	2.53E-08	5.52E-11	3.08E-08	7.57E-10	3.45E-09	8.22E-12	4.22E-09	4.65E-10	1.59E-09	1.91E-12	2.05E-09
3503	421047	3734866	5.58E-09	2.55E-08	5.58E-11	3.11E-08	7.65E-10	3.49E-09	8.31E-12	4.26E-09	4.69E-10	1.60E-09	1.93E-12	2.07E-09
3504	421038	3734870	5.67E-09	2.59E-08	5.67E-11	3.16E-08	7.77E-10	3.54E-09	8.44E-12	4.33E-09	4.77E-10	1.63E-09	1.96E-12	2.11E-09
3505	421028.9	3734874	5.75E-09	2.63E-08	5.75E-11	3.21E-08	7.88E-10	3.59E-09	8.56E-12	4.39E-09	4.84E-10	1.65E-09	1.99E-12	2.14E-09
3506	421019.9	3734877	5.82E-09	2.66E-08	5.82E-11	3.25E-08	7.98E-10	3.64E-09	8.66E-12	4.44E-09	4.90E-10	1.67E-09	2.01E-12	2.16E-09
3507	420992.8	3734889	5.94E-09	2.71E-08	5.93E-11	3.31E-08	8.14E-10	3.71E-09	8.84E-12	4.53E-09	5.00E-10	1.71E-09	2.05E-12	2.21E-09
3508	420983.7	3734893	5.95E-09	2.72E-08	5.94E-11	3.32E-08	8.15E-10	3.72E-09	8.85E-12	4.54E-09	5.00E-10	1.71E-09	2.05E-12	2.21E-09
3509	420974.7	3734896	5.94E-09	2.71E-08	5.93E-11	3.31E-08	8.14E-10	3.71E-09	8.83E-12	4.53E-09	4.99E-10	1.71E-09	2.05E-12	2.21E-09
3510	420965.6	3734900	5.90E-09	2.70E-08	5.90E-11	3.29E-08	8.09E-10	3.69E-09	8.78E-12	4.51E-09	4.97E-10	1.70E-09	2.04E-12	2.19E-09
3511	420956.6	3734904	5.84E-09	2.67E-08	5.84E-11	3.26E-08	8.01E-10	3.65E-09	8.70E-12	4.46E-09	4.91E-10	1.68E-09	2.02E-12	2.17E-09
3512	420947.5	3734908	5.75E-09	2.63E-08	5.75E-11	3.21E-08	7.88E-10	3.60E-09	8.56E-12	4.39E-09	4.84E-10	1.65E-09	1.99E-12	2.14E-09
3513	420938.5	3734911	5.64E-09	2.58E-08	5.63E-11	3.15E-08	7.73E-10	3.52E-09	8.39E-12	4.30E-09	4.74E-10	1.62E-09	1.95E-12	2.10E-09
3514	420929.4	3734915	5.50E-09	2.51E-08	5.49E-11	3.07E-08	7.54E-10	3.44E-09	8.18E-12	4.20E-09	4.63E-10	1.58E-09	1.90E-12	2.04E-09
3515	420920.4	3734919	5.34E-09	2.44E-08	5.33E-11	2.98E-08	7.31E-10	3.34E-09	7.94E-12	4.07E-09	4.49E-10	1.53E-09	1.84E-12	1.98E-09
3516	420911.3	3734923	5.15E-09	2.36E-08	5.15E-11	2.88E-08	7.06E-10	3.22E-09	7.67E-12	3.93E-09	4.33E-10	1.48E-09	1.78E-12	1.92E-09
3517	420902.3	3734927	4.95E-09	2.26E-08	4.94E-11	2.76E-08	6.78E-10	3.09E-09	7.36E-12	3.78E-09	4.16E-10	1.42E-09	1.71E-12	1.84E-09
3518	420893.3	3734930	4.73E-09	2.16E-08	4.73E-11	2.64E-08	6.48E-10	2.96E-09	7.04E-12	3.61E-09	3.98E-10	1.36E-09	1.63E-12	1.76E-09
3519	420884.2	3734934	4.50E-09	2.06E-08	4.50E-11	2.51E-08	6.17E-10	2.81E-09	6.70E-12	3.44E-09	3.78E-10	1.29E-09	1.55E-12	1.67E-09
3520	420875.2	3734938	4.26E-09	1.95E-08	4.26E-11	2.38E-08	5.84E-10	2.66E-09	6.34E-12	3.25E-09	3.58E-10	1.22E-09	1.47E-12	1.58E-09
3521	420866.1	3734942	4.02E-09	1.84E-08	4.02E-11	2.24E-08	5.51E-10	2.51E-09	5.98E-12	3.07E-09	3.38E-10	1.15E-09	1.39E-12	1.49E-09
3522	420857.1	3734946	3.77E-09	1.73E-08	3.77E-11	2.11E-08	5.17E-10	2.36E-09	5.62E-12	2.88E-09	3.17E-10	1.08E-09	1.30E-12	1.40E-09
3523	420848	3734949	3.53E-09	1.61E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	5.25E-12	2.69E-09	2.97E-10	1.01E-09	1.22E-12	1.31E-09
3524	420839	3734953	3.28E-09	1.50E-08	3.28E-11	1.83E-08	4.50E-10	2.05E-09	4.89E-12	2.51E-09	2.76E-10	9.44E-10	1.14E-12	1.22E-09
3525	420829.9	3734957	3.05E-09	1.39E-08	3.05E-11	1.70E-08	4.18E-10	1.91E-09	4.54E-12	2.33E-09	2.57E-10	8.76E-10	1.05E-12	1.13E-09
3526	420820.9	3734961	2.83E-09	1.29E-08	2.82E-11	1.58E-08	3.87E-10	1.77E-09	4.21E-12	2.16E-09	2.38E-10	8.12E-10	9.76E-13	1.05E-09
3527	420811.8	3734965	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	3.89E-12	1.99E-09	2.20E-10	7.50E-10	9.02E-13	9.71E-10
3528	420802.8	3734968	2.40E-09	1.10E-08	2.40E-11	1.34E-08	3.30E-10	1.50E-09	3.58E-12	1.84E-09	2.02E-10	6.91E-10	8.31E-13	8.94E-10
3529	420793.7	3734972	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	3.28E-12	1.68E-09	1.85E-10	6.33E-10	7.61E-13	8.19E-10
3530	420784.7	3734976	2.01E-09	9.20E-09	2.01E-11	1.12E-08	2.76E-10	1.26E-09	2.99E-12	1.54E-09	1.69E-10	5.78E-10	6.95E-13	7.48E-10
3531	420775.7	3734980	1.83E-09	8.39E-09	1.83E-11	1.02E-08	2.52E-10	1.15E-09	2.73E-12	1.40E-09	1.54E-10	5.27E-10	6.34E-13	6.82E-10
3532	420766.6	3734984	1.67E-09	7.64E-09	1.67E-11	9.33E-09	2.29E-10	1.04E-09	2.49E-12	1.28E-09	1.41E-10	4.80E-10	5.77E-13	6.21E-10
3533	420757.6	3734987	1.52E-09	6.95E-09	1.52E-11	8.48E-09	2.08E-10	9.50E-10	2.26E-12	1.16E-09	1.28E-10	4.37E-10	5.25E-13	5.65E-10
3534	420748.5	3734991	1.38E-09	6.31E-09	1.38E-11	7.71E-09	1.89E-10	8.63E-10	2.06E-12	1.05E-09	1.16E-10	3.97E-10	4.77E-13	5.14E-10
3535	421192.9	3734537	2.02E-09	9.23E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	3.00E-12	1.54E-09	1.70E-10	5.80E-10	6.97E-13	7.50E-10
3536	421193.2	3734527	1.92E-09	8.77E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	2.85E-12	1.46E-09	1.61E-10	5.51E-10	6.63E-13	7.13E-10
3537	421193.4	3734517	1.82E-09	8.32E-09	1.82E-11	1.02E-08	2.49E-10	1.14E-09	2.71E-12	1.39E-09	1.53E-10	5.23E-10	6.29E-13	6.77E-10
3538	421213.1	3734593	2.34E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.48E-12	1.78E-09	1.97E-10	6.71E-10	8.07E-13	8.68E-10
3539	421209.2	3734602	2.47E-09	1.13E-08	2.47E-11	1.38E-08	3.38E-10	1.54E-09	3.68E-12	1.89E-09	2.08E-10	7.10E-10	8.53E-13	9.18E-10
3540	421205.3	3734611	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.57E-10	1.63E-09	3.88E-12	1.99E-09	2.19E-10	7.48E-10	9.00E-13	9.68E-10
3541	421201.4	3734620	2.74E-09	1.25E-08	2.73E-11	1.53E-08	3.75E-10	1.71E-09	4.07E-12	2.09E-09	2.30E-10	7.86E-10	9.45E-13	1.02E-09
3542	421197.5	3734629	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.80E-09	4.28E-12	2.19E-09	2.42E-10	8.26E-10	9.93E-13	1.07E-09
3543	421193.6	3734638	3.02E-09	1.38E-08	3.01E-11	1.68E-08	4.13E-10	1.89E-09	4.49E-12	2.30E-09	2.54E-10	8.66E-10	1.04E-12	1.12E-09
3544	421189.7	3734647	3.16E-09	1.45E-08	3.16E-11	1.76E-08	4.33E-10	1.98E-09	4.71E-12	2.41E-09	2.66E-10	9.08E-10	1.09E-12	1.18E-09
3545	421185.7	3734656	3.31E-09	1.51E-08	3.30E-11	1.85E-08	4.53E-10	2.07E-09	4.92E-12	2.52E-09	2.78E-10	9.50E-10	1.14E-12	1.23E-09
3546	421181.8	3734665	3.45E-09	1.58E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	5.13E-12	2.63E-09	2.90E-10	9.90E-10	1.19E-12	1.28E-09
3547	421177.9	3734674	3.58E-09	1.64E-08	3.58E-11	2.00E-08	4.91E-10	2.24E-09	5.33E-12	2.74E-09	3.01E-10	1.03E-09	1.24E-12	1.33E-09
3548	421174	3734683	3.72E-09	1.70E-08	3.72E-11	2.08E-08	5.10E-10	2.33E-09	5.54E-12	2.84E-09	3.13E-10	1.07E-09	1.29E-12	1.38E-09
3549	421170.1	3734692	3.86E-09	1.76E-08	3.86E-11	2.15E-08	5.29E-10	2.41E-09	5.74E-12	2.95E-09	3.25E-10	1.11E-09	1.33E-12	1.43E-09
3550	421166.2	3734701	3.99E-09	1.82E-08	3.99E-11	2.23E-08	5.47E-10	2.49E-09	5.94E-12	3.05E-09	3.36E-10	1.15E-09	1.38E-12	1.48E-09
3551	421162.3	3734710	4.11E-09	1.88E-08	4.10E-11	2.29E-08	5.63E-10	2.57E-09	6.11E-12	3.14E-09	3.45E-10	1.18E-09	1.42E-12	1.53E-09
3552	421158.4	3734719	4.22E-09	1.93E-08	4.22E-11	2.36E-08	5.78E-10	2.64E-09	6.28E-12	3.22E-09	3.55E-10	1.21E-09	1.46E-12	1.57E-09
3553	421154.5	3734728	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.93E-10	2.71E-09	6.44E-12	3.31E-09	3.64E-10	1.24E-09	1.50E-12	1.61E-09
3554	421150.6	3734737	4.42E-09	2.02E-08	4.42E-11	2.47E-08	6.06E-10	2.77E-09	6.58E-12	3.38E-09	3.72E-10	1.27E-09	1.53E-12	1.64E-09
3555	421146.7	3734746	4.51E-09	2.06E-08	4.51E-11	2.52E-08	6.19E-10	2.82E-09	6.72E-12	3.45E-09	3.80E-10	1.30E-09	1.56E-12	1.68E-09
3556	421142.8	3734756	4.60E-09	2.10E-08	4.59E-11	2.57E-08	6.30E-10	2.87E-09	6.84E-12	3.51E-09	3.87E-10	1.32E-09	1.59E-12	1.71E-09
3557	421138.9	3734765	4.67E-09	2.13E-08	4.66E-11	2.61E-08	6.40E-10	2.92E-09	6.95E-12	3.56E-09	3.93E-10	1.34E-09	1.61E-12	1.74E-09
3558	421135	3734774	4.73E-09	2.16E-08	4.72E-11	2.64E-08	6.48E-10	2.96E-09	7.04E-12	3.61E-09	3.98E-10	1.36E-09	1.63E-12	1.76E-09
3559	421131.1	3734783	4.78E-09	2.18E-08	4.78E-11	2.67E-08	6.55E-10	2.99E-09	7.11E-12	3.65E-09	4.02E-10	1.37E-09	1.65E-12	1.78E-09
3560	421127.2	3734792	4.82E-09	2.20E-08	4.82E-11	2.69E-08	6.61E-10	3.01E-09	7.17E-12	3.68E-09	4.05E-10	1.38E-09	1.67E-12	1.79E-09
3561	421092	3734873	4.65E-09	2.12E-08	4.64E-11	2.59E-08	6.37E-10	2.90E-09	6.91E-12	3.55E-09	3.91E-10	1.33E-09	1.61E-12	1.73E-09
3562	421088.1	3734882	4.61E-09	2.11E-08	4.61E-11	2.57E-08	6.32E-10	2.88E-09	6.86E-12	3.52E-09	3.88E-10	1.32E-09	1.59E-12	1.71E-09
3563	421075.1	3734894	4.69E-09	2.14E-08	4.69E-11	2.62E-08	6.43E-10	2.93E-09	6.98E-12	3.58E-09	3.94E-10	1.35E-09	1.62E-12	1.74E-09
3564	421066.1	3734898	4.78E-09	2.19E-08	4.78E-11	2.67E-08	6.56E-10	2.99E-09	7.12E-12	3.65E-09	4.02E-10	1.37E-09	1.65E-12	1.78E-09
3565	421057	3734902	4.87E-09	2.23E-08	4.87E-11	2.72E-08	6.67E-10	3.04E-09	7.25E-12	3.72E-09	4.10E-10	1.40E-09	1.68E-12	1.81E-09
3566	421048	3734906	4.94E-09	2.26E-08	4.94E-11	2.76E-08	6.77E-10	3.09E-09	7.36E-12	3.77E-09	4.16E-10	1.42E-09	1.71E-12	1.84E-09
3567	421038.9	3734910	5.00E-09	2.29E-08	5.00E-11	2.79E-08	6.85E-10	3.13E-09	7.44E-12	3.82E-09	4.21E-10	1.44E-09	1.73E-12	1.86E-09
3568	421029.8	3734913	5.04E-09	2.31E-08	5.04E-11	2.82E-08	6.91E-10	3.15E-09	7.51E-12	3.85E-09	4.24E-10	1.45E-09	1.74E-12	1.88E-09
3569	421020.8	3734917	5.08E-09	2.32E-08	5.07E-11	2.83E-08	6.96E-10	3.17E-09	7.55E-12	3.88E-09	4.27E-10	1.46E-09	1.75E-12	1.89E-09
3570	420993.6	3734929	5.05E-09	2.31E-08	5.05E-11	2.82E-08	6.93E-10	3.16E-09	7.52E-12	3.86E-09	4.25E-10	1.45E-09	1.75E-12	1.88E-09
3571	420984.6	3734932	5.02E-09	2.29E-08	5.02E-11	2.80E-08	6.88E-10	3.14E-09	7.47E-12	3.83E-09	4.22E-10	1.44E-09	1.73E-12	1.87E-09
3572	420975.5	3734936	4.97E-09	2.27E-08	4.97E-11	2.77E-08	6.81E-10	3.11E-09	7.40E-12	3.79E-09	4.18E-10	1.43E-09	1.72E-12	1.85E-09
3573	420966.5	3734940	4.90E-09	2.24E-08	4.90E-11	2.74E-08	6.72E-10	3.06E-09	7.30E-12	3.74E-09	4.12E-10	1.41E-09	1.69E-12	1.82E-09

3574	420957.4	3734944	4.81E-09	2.20E-08	4.81E-11	2.69E-08	6.59E-10	3.01E-09	7.16E-12	3.67E-09	4.05E-10	1.38E-09	1.66E-12	1.79E-09
3575	420948.3	3734948	4.70E-09	2.15E-08	4.70E-11	2.62E-08	6.44E-10	2.94E-09	6.99E-12	3.59E-09	3.95E-10	1.35E-09	1.62E-12	1.75E-09
3576	420939.3	3734951	4.57E-09	2.09E-08	4.57E-11	2.55E-08	6.26E-10	2.86E-09	6.80E-12	3.49E-09	3.84E-10	1.31E-09	1.58E-12	1.70E-09
3577	420930.2	3734955	4.43E-09	2.02E-08	4.42E-11	2.47E-08	6.07E-10	2.77E-09	6.59E-12	3.38E-09	3.72E-10	1.27E-09	1.53E-12	1.65E-09
3578	420921.2	3734959	4.26E-09	1.95E-08	4.26E-11	2.38E-08	5.84E-10	2.66E-09	6.34E-12	3.25E-09	3.59E-10	1.22E-09	1.47E-12	1.58E-09
3579	420912.1	3734963	4.08E-09	1.87E-08	4.08E-11	2.28E-08	5.60E-10	2.55E-09	6.08E-12	3.12E-09	3.44E-10	1.17E-09	1.41E-12	1.52E-09
3580	420903.1	3734967	3.90E-09	1.78E-08	3.90E-11	2.18E-08	5.34E-10	2.44E-09	5.80E-12	2.98E-09	3.28E-10	1.12E-09	1.35E-12	1.45E-09
3581	420894	3734970	3.71E-09	1.70E-08	3.71E-11	2.07E-08	5.09E-10	2.32E-09	5.53E-12	2.83E-09	3.12E-10	1.07E-09	1.28E-12	1.38E-09
3582	420885	3734974	3.53E-09	1.61E-08	3.53E-11	1.97E-08	4.84E-10	2.21E-09	5.25E-12	2.69E-09	2.97E-10	1.01E-09	1.22E-12	1.31E-09
3583	420875.9	3734978	3.34E-09	1.53E-08	3.34E-11	1.86E-08	4.58E-10	2.09E-09	4.97E-12	2.55E-09	2.81E-10	9.60E-10	1.15E-12	1.24E-09
3584	420866.8	3734982	3.15E-09	1.44E-08	3.15E-11	1.76E-08	4.31E-10	1.97E-09	4.68E-12	2.40E-09	2.65E-10	9.04E-10	1.09E-12	1.17E-09
3585	420857.8	3734986	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.04E-10	1.84E-09	4.39E-12	2.25E-09	2.48E-10	8.48E-10	1.02E-12	1.10E-09
3586	420848.7	3734989	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.78E-10	1.72E-09	4.10E-12	2.10E-09	2.32E-10	7.92E-10	9.52E-13	1.02E-09
3587	420839.7	3734993	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.82E-12	1.96E-09	2.16E-10	7.37E-10	8.86E-13	9.53E-10
3588	420830.6	3734997	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.82E-09	2.00E-10	6.83E-10	8.22E-13	8.84E-10
3589	420821.6	3735001	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.01E-10	1.37E-09	3.27E-12	1.68E-09	1.85E-10	6.32E-10	7.60E-13	8.18E-10
3590	420812.5	3735005	2.03E-09	9.27E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	3.02E-12	1.55E-09	1.71E-10	5.83E-10	7.01E-13	7.54E-10
3591	420803.4	3735008	1.87E-09	8.56E-09	1.87E-11	1.04E-08	2.57E-10	1.17E-09	2.79E-12	1.43E-09	1.57E-10	5.38E-10	6.47E-13	6.96E-10
3592	420794.4	3735012	1.72E-09	7.89E-09	1.72E-11	9.63E-09	2.36E-10	1.08E-09	2.57E-12	1.32E-09	1.45E-10	4.96E-10	5.96E-13	6.41E-10
3593	420785.3	3735016	1.59E-09	7.26E-09	1.59E-11	8.87E-09	2.18E-10	9.93E-10	2.36E-12	1.21E-09	1.34E-10	4.56E-10	5.49E-13	5.91E-10
3594	420776.3	3735020	1.46E-09	6.67E-09	1.46E-11	8.14E-09	2.00E-10	9.12E-10	2.17E-12	1.11E-09	1.23E-10	4.19E-10	5.04E-13	5.42E-10
3595	420767.2	3735024	1.33E-09	6.10E-09	1.33E-11	7.45E-09	1.83E-10	8.34E-10	1.99E-12	1.02E-09	1.12E-10	3.83E-10	4.61E-13	4.96E-10
3596	421232.9	3734538	1.68E-09	7.67E-09	1.68E-11	9.36E-09	2.30E-10	1.05E-09	2.50E-12	1.28E-09	1.41E-10	4.82E-10	5.80E-13	6.24E-10
3597	421233.2	3734528	1.59E-09	7.29E-09	1.59E-11	8.90E-09	2.18E-10	9.96E-10	2.37E-12	1.22E-09	1.34E-10	4.58E-10	5.51E-13	5.93E-10
3598	421233.4	3734518	1.51E-09	6.92E-09	1.51E-11	8.45E-09	2.07E-10	9.46E-10	2.25E-12	1.16E-09	1.27E-10	4.35E-10	5.23E-13	5.63E-10
3599	421253.1	3734594	1.95E-09	8.90E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	2.90E-12	1.49E-09	1.64E-10	5.59E-10	6.73E-13	7.24E-10
3600	421249.1	3734603	2.06E-09	9.40E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	3.06E-12	1.57E-09	1.73E-10	5.91E-10	7.11E-13	7.65E-10
3601	421245.2	3734612	2.17E-09	9.91E-09	2.17E-11	1.21E-08	2.97E-10	1.35E-09	3.23E-12	1.65E-09	1.82E-10	6.23E-10	7.49E-13	8.06E-10
3602	421241.3	3734622	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.12E-10	1.42E-09	3.39E-12	1.74E-09	1.91E-10	6.54E-10	7.86E-13	8.46E-10
3603	421237.4	3734631	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.27E-10	1.49E-09	3.55E-12	1.82E-09	2.01E-10	6.85E-10	8.24E-13	8.86E-10
3604	421233.5	3734640	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.42E-10	1.56E-09	3.71E-12	1.90E-09	2.10E-10	7.16E-10	8.62E-13	9.27E-10
3605	421229.6	3734649	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.62E-09	3.87E-12	1.98E-09	2.19E-10	7.46E-10	8.98E-13	9.66E-10
3606	421225.7	3734658	2.70E-09	1.24E-08	2.70E-11	1.51E-08	3.70E-10	1.69E-09	4.02E-12	2.06E-09	2.27E-10	7.76E-10	9.33E-13	1.00E-09
3607	421221.8	3734667	2.81E-09	1.28E-08	2.81E-11	1.57E-08	3.85E-10	1.76E-09	4.18E-12	2.14E-09	2.36E-10	8.07E-10	9.70E-13	1.04E-09
3608	421217.9	3734676	2.91E-09	1.33E-08	2.91E-11	1.63E-08	3.99E-10	1.82E-09	4.34E-12	2.23E-09	2.45E-10	8.37E-10	1.01E-12	1.08E-09
3609	421214	3734685	3.02E-09	1.38E-08	3.01E-11	1.68E-08	4.13E-10	1.89E-09	4.49E-12	2.30E-09	2.54E-10	8.66E-10	1.04E-12	1.12E-09
3610	421210	3734694	3.11E-09	1.42E-08	3.11E-11	1.74E-08	4.27E-10	1.95E-09	4.64E-12	2.38E-09	2.62E-10	8.95E-10	1.08E-12	1.16E-09
3611	421206.1	3734703	3.21E-09	1.47E-08	3.21E-11	1.79E-08	4.40E-10	2.01E-09	4.78E-12	2.45E-09	2.70E-10	9.23E-10	1.11E-12	1.19E-09
3612	421202.2	3734712	3.32E-09	1.52E-08	3.32E-11	1.85E-08	4.55E-10	2.07E-09	4.94E-12	2.53E-09	2.79E-10	9.53E-10	1.15E-12	1.23E-09
3613	421198.3	3734721	3.42E-09	1.57E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	5.10E-12	2.61E-09	2.88E-10	9.84E-10	1.18E-12	1.27E-09
3614	421194.4	3734730	3.52E-09	1.61E-08	3.52E-11	1.97E-08	4.83E-10	2.20E-09	5.25E-12	2.69E-09	2.97E-10	1.01E-09	1.22E-12	1.31E-09
3615	421190.5	3734739	3.62E-09	1.65E-08	3.61E-11	2.02E-08	4.96E-10	2.26E-09	5.38E-12	2.76E-09	3.04E-10	1.04E-09	1.25E-12	1.34E-09
3616	421186.6	3734748	3.70E-09	1.69E-08	3.70E-11	2.07E-08	5.08E-10	2.32E-09	5.51E-12	2.83E-09	3.12E-10	1.06E-09	1.28E-12	1.38E-09
3617	421182.7	3734757	3.79E-09	1.73E-08	3.79E-11	2.12E-08	5.20E-10	2.37E-09	5.64E-12	2.89E-09	3.19E-10	1.09E-09	1.31E-12	1.41E-09
3618	421178.8	3734766	3.87E-09	1.77E-08	3.87E-11	2.16E-08	5.30E-10	2.42E-09	5.76E-12	2.95E-09	3.25E-10	1.11E-09	1.34E-12	1.44E-09
3619	421174.9	3734775	3.93E-09	1.80E-08	3.93E-11	2.20E-08	5.39E-10	2.46E-09	5.85E-12	3.00E-09	3.31E-10	1.13E-09	1.36E-12	1.46E-09
3620	421170.9	3734784	3.99E-09	1.82E-08	3.99E-11	2.23E-08	5.47E-10	2.49E-09	5.94E-12	3.05E-09	3.36E-10	1.15E-09	1.38E-12	1.48E-09
3621	421167	3734793	4.04E-09	1.85E-08	4.04E-11	2.25E-08	5.54E-10	2.53E-09	6.01E-12	3.08E-09	3.40E-10	1.16E-09	1.40E-12	1.50E-09
3622	421155.3	3734820	4.07E-09	1.86E-08	4.07E-11	2.27E-08	5.58E-10	2.55E-09	6.06E-12	3.11E-09	3.43E-10	1.17E-09	1.41E-12	1.51E-09
3623	421151.4	3734829	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.56E-10	2.54E-09	6.04E-12	3.10E-09	3.41E-10	1.17E-09	1.40E-12	1.51E-09
3624	421147.5	3734838	4.04E-09	1.85E-08	4.04E-11	2.25E-08	5.53E-10	2.52E-09	6.01E-12	3.08E-09	3.40E-10	1.16E-09	1.40E-12	1.50E-09
3625	421143.6	3734847	4.01E-09	1.83E-08	4.01E-11	2.24E-08	5.50E-10	2.51E-09	5.97E-12	3.06E-09	3.37E-10	1.15E-09	1.39E-12	1.49E-09
3626	421139.7	3734856	3.99E-09	1.82E-08	3.98E-11	2.22E-08	5.46E-10	2.49E-09	5.93E-12	3.04E-09	3.35E-10	1.15E-09	1.38E-12	1.48E-09
3627	421135.8	3734865	3.97E-09	1.82E-08	3.97E-11	2.22E-08	5.44E-10	2.48E-09	5.91E-12	3.03E-09	3.34E-10	1.14E-09	1.37E-12	1.48E-09
3628	421131.8	3734874	3.95E-09	1.81E-08	3.95E-11	2.21E-08	5.42E-10	2.47E-09	5.88E-12	3.02E-09	3.32E-10	1.14E-09	1.37E-12	1.47E-09
3629	421127.9	3734883	3.93E-09	1.80E-08	3.93E-11	2.19E-08	5.39E-10	2.46E-09	5.85E-12	3.00E-09	3.30E-10	1.13E-09	1.36E-12	1.46E-09
3630	421124	3734892	3.91E-09	1.79E-08	3.91E-11	2.18E-08	5.36E-10	2.45E-09	5.82E-12	2.99E-09	3.29E-10	1.12E-09	1.35E-12	1.45E-09
3631	421085.1	3734931	4.12E-09	1.88E-08	4.12E-11	2.30E-08	5.65E-10	2.58E-09	6.14E-12	3.15E-09	3.47E-10	1.18E-09	1.42E-12	1.53E-09
3632	421076	3734934	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.75E-10	2.62E-09	6.24E-12	3.20E-09	3.53E-10	1.21E-09	1.45E-12	1.56E-09
3633	421067	3734938	4.25E-09	1.94E-08	4.25E-11	2.37E-08	5.83E-10	2.66E-09	6.33E-12	3.25E-09	3.58E-10	1.22E-09	1.47E-12	1.58E-09
3634	421057.9	3734942	4.30E-09	1.97E-08	4.30E-11	2.40E-08	5.89E-10	2.69E-09	6.40E-12	3.28E-09	3.62E-10	1.24E-09	1.49E-12	1.60E-09
3635	421048.8	3734946	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	6.45E-12	3.31E-09	3.64E-10	1.24E-09	1.50E-12	1.61E-09
3636	421039.8	3734950	4.35E-09	1.99E-08	4.35E-11	2.43E-08	5.96E-10	2.72E-09	6.48E-12	3.32E-09	3.66E-10	1.25E-09	1.50E-12	1.62E-09
3637	421030.7	3734953	4.36E-09	1.99E-08	4.36E-11	2.43E-08	5.98E-10	2.73E-09	6.49E-12	3.33E-09	3.67E-10	1.25E-09	1.51E-12	1.62E-09
3638	421021.6	3734957	4.36E-09	1.99E-08	4.36E-11	2.43E-08	5.97E-10	2.72E-09	6.49E-12	3.33E-09	3.67E-10	1.25E-09	1.51E-12	1.62E-09
3639	420994.5	3734968	4.27E-09	1.95E-08	4.26E-11	2.38E-08	5.85E-10	2.67E-09	6.35E-12	3.26E-09	3.59E-10	1.23E-09	1.47E-12	1.59E-09
3640	420985.4	3734972	4.21E-09	1.92E-08	4.20E-11	2.35E-08	5.77E-10	2.63E-09	6.26E-12	3.21E-09	3.54E-10	1.21E-09	1.45E-12	1.56E-09
3641	420976.3	3734976	4.13E-09	1.89E-08	4.13E-11	2.30E-08	5.66E-10	2.58E-09	6.14E-12	3.15E-09	3.47E-10	1.19E-09	1.43E-12	1.53E-09
3642	420967.3	3734980	4.04E-09	1.85E-08	4.04E-11	2.25E-08	5.54E-10	2.52E-09	6.01E-12	3.08E-09	3.40E-10	1.16E-09	1.40E-12	1.50E-09
3643	420958.2	3734984	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	5.86E-12	3.01E-09	3.31E-10	1.13E-09	1.36E-12	1.46E-09
3644	420949.1	3734987	3.82E-09	1.75E-08	3.82E-11	2.13E-08	5.24E-10	2.39E-09	5.69E-12	2.92E-09	3.22E-10	1.10E-09	1.32E-12	1.42E-09
3645	420940.1	3734991	3.70E-09	1.69E-08	3.70E-11	2.06E-08	5.07E-10	2.31E-09	5.50E-12	2.82E-09	3.11E-10	1.06E-09	1.28E-12	1.37E-09
3646	420931	3734995	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.23E-09	5.30E-12	2.72E-09	3.00E-10	1.02E-09	1.23E-12	1.32E-09

3647	420921.9	3734999	3.42E-09	1.56E-08	3.42E-11	1.91E-08	4.69E-10	2.14E-09	5.09E-12	2.61E-09	2.88E-10	9.82E-10	1.18E-12	1.27E-09
3648	420912.9	3735003	3.27E-09	1.49E-08	3.27E-11	1.83E-08	4.48E-10	2.04E-09	4.87E-12	2.50E-09	2.75E-10	9.39E-10	1.13E-12	1.22E-09
3649	420903.8	3735006	3.12E-09	1.42E-08	3.11E-11	1.74E-08	4.27E-10	1.95E-09	4.64E-12	2.38E-09	2.62E-10	8.95E-10	1.08E-12	1.16E-09
3650	420894.7	3735010	2.96E-09	1.35E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	4.41E-12	2.26E-09	2.49E-10	8.51E-10	1.02E-12	1.10E-09
3651	420885.7	3735014	2.81E-09	1.28E-08	2.81E-11	1.57E-08	3.85E-10	1.76E-09	4.18E-12	2.14E-09	2.36E-10	8.07E-10	9.70E-13	1.04E-09
3652	420876.6	3735018	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.64E-10	1.66E-09	3.95E-12	2.03E-09	2.23E-10	7.62E-10	9.17E-13	9.87E-10
3653	420867.5	3735022	2.50E-09	1.14E-08	2.50E-11	1.39E-08	3.42E-10	1.56E-09	3.72E-12	1.91E-09	2.10E-10	7.18E-10	8.63E-13	9.29E-10
3654	420776.9	3735060	1.18E-09	5.39E-09	1.18E-11	6.59E-09	1.62E-10	7.38E-10	1.76E-12	9.01E-10	9.93E-11	3.39E-10	4.08E-13	4.39E-10
3655	420767.8	3735063	1.08E-09	4.95E-09	1.08E-11	6.04E-09	1.48E-10	6.77E-10	1.61E-12	8.27E-10	9.11E-11	3.11E-10	3.74E-13	4.03E-10
3656	420758.8	3735067	9.93E-10	4.54E-09	9.93E-12	5.55E-09	1.36E-10	6.21E-10	1.48E-12	7.59E-10	8.36E-11	2.85E-10	3.43E-13	3.69E-10
3657	420749.7	3735071	9.11E-10	4.17E-09	9.11E-12	5.09E-09	1.25E-10	5.70E-10	1.36E-12	6.96E-10	7.67E-11	2.62E-10	3.15E-13	3.39E-10
3658	421272.9	3734539	1.40E-09	6.41E-09	1.40E-11	7.83E-09	1.92E-10	8.77E-10	2.09E-12	1.07E-09	1.18E-10	4.03E-10	4.85E-13	5.21E-10
3659	421273.1	3734529	1.34E-09	6.11E-09	1.33E-11	7.45E-09	1.83E-10	8.35E-10	1.99E-12	1.02E-09	1.12E-10	3.84E-10	4.61E-13	4.97E-10
3660	421273.4	3734519	1.27E-09	5.81E-09	1.27E-11	7.10E-09	1.74E-10	7.95E-10	1.89E-12	9.71E-10	1.07E-10	3.65E-10	4.39E-13	4.73E-10
3661	421304.8	3734568	1.36E-09	6.23E-09	1.36E-11	7.60E-09	1.87E-10	8.52E-10	2.03E-12	1.04E-09	1.15E-10	3.91E-10	4.71E-13	5.06E-10
3662	421285.2	3734614	1.77E-09	8.11E-09	1.77E-11	9.91E-09	2.43E-10	1.11E-09	2.64E-12	1.36E-09	1.49E-10	5.10E-10	6.13E-13	6.60E-10
3663	421281.3	3734623	1.87E-09	8.55E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.38E-10	6.46E-13	6.96E-10
3664	421277.4	3734632	1.97E-09	9.00E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	2.93E-12	1.50E-09	1.66E-10	5.65E-10	6.80E-13	7.32E-10
3665	421273.5	3734641	2.06E-09	9.44E-09	2.06E-11	1.15E-08	2.83E-10	1.29E-09	3.07E-12	1.58E-09	1.74E-10	5.93E-10	7.13E-13	7.67E-10
3666	421269.5	3734650	2.16E-09	9.86E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	3.21E-12	1.65E-09	1.81E-10	6.19E-10	7.45E-13	8.01E-10
3667	421265.6	3734659	2.25E-09	1.03E-08	2.24E-11	1.25E-08	3.08E-10	1.40E-09	3.34E-12	1.71E-09	1.89E-10	6.45E-10	7.76E-13	8.35E-10
3668	421261.7	3734668	2.33E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.47E-12	1.78E-09	1.96E-10	6.71E-10	8.06E-13	8.68E-10
3669	421257.8	3734677	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	3.60E-12	1.85E-09	2.03E-10	6.95E-10	8.36E-13	8.99E-10
3670	421253.9	3734686	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	3.72E-12	1.91E-09	2.10E-10	7.19E-10	8.64E-13	9.30E-10
3671	421250	3734695	2.58E-09	1.18E-08	2.58E-11	1.44E-08	3.54E-10	1.61E-09	3.85E-12	1.97E-09	2.17E-10	7.42E-10	8.93E-13	9.60E-10
3672	421246.1	3734704	2.66E-09	1.22E-08	2.66E-11	1.49E-08	3.65E-10	1.66E-09	3.96E-12	2.03E-09	2.24E-10	7.65E-10	9.20E-13	9.90E-10
3673	421242.2	3734713	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.76E-10	1.71E-09	4.08E-12	2.09E-09	2.30E-10	7.87E-10	9.47E-13	1.02E-09
3674	421238.2	3734722	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.86E-10	1.76E-09	4.19E-12	2.15E-09	2.37E-10	8.08E-10	9.72E-13	1.05E-09
3675	421234.3	3734731	2.89E-09	1.32E-08	2.88E-11	1.61E-08	3.95E-10	1.80E-09	4.29E-12	2.20E-09	2.43E-10	8.29E-10	9.97E-13	1.07E-09
3676	421230.4	3734740	2.96E-09	1.35E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	4.40E-12	2.26E-09	2.49E-10	8.50E-10	1.02E-12	1.10E-09
3677	421226.5	3734749	3.03E-09	1.39E-08	3.03E-11	1.69E-08	4.16E-10	1.90E-09	4.52E-12	2.32E-09	2.55E-10	8.72E-10	1.05E-12	1.13E-09
3678	421222.6	3734758	3.11E-09	1.42E-08	3.11E-11	1.73E-08	4.26E-10	1.94E-09	4.63E-12	2.37E-09	2.61E-10	8.93E-10	1.07E-12	1.16E-09
3679	421218.7	3734767	3.16E-09	1.45E-08	3.16E-11	1.77E-08	4.34E-10	1.98E-09	4.71E-12	2.42E-09	2.66E-10	9.09E-10	1.09E-12	1.18E-09
3680	421214.8	3734776	3.23E-09	1.48E-08	3.23E-11	1.80E-08	4.43E-10	2.02E-09	4.81E-12	2.47E-09	2.72E-10	9.29E-10	1.12E-12	1.20E-09
3681	421210.8	3734785	3.29E-09	1.51E-08	3.29E-11	1.84E-08	4.52E-10	2.06E-09	4.90E-12	2.52E-09	2.77E-10	9.47E-10	1.14E-12	1.23E-09
3682	421206.9	3734794	3.35E-09	1.53E-08	3.35E-11	1.87E-08	4.59E-10	2.09E-09	4.98E-12	2.56E-09	2.82E-10	9.62E-10	1.16E-12	1.24E-09
3683	421195.2	3734821	3.45E-09	1.58E-08	3.44E-11	1.92E-08	4.72E-10	2.15E-09	5.13E-12	2.63E-09	2.90E-10	9.90E-10	1.19E-12	1.28E-09
3684	421191.3	3734830	3.46E-09	1.58E-08	3.46E-11	1.93E-08	4.74E-10	2.16E-09	5.15E-12	2.64E-09	2.91E-10	9.94E-10	1.20E-12	1.29E-09
3685	421187.4	3734839	3.47E-09	1.59E-08	3.47E-11	1.94E-08	4.75E-10	2.17E-09	5.16E-12	2.65E-09	2.92E-10	9.97E-10	1.20E-12	1.29E-09
3686	421183.5	3734848	3.47E-09	1.59E-08	3.47E-11	1.94E-08	4.75E-10	2.17E-09	5.16E-12	2.65E-09	2.92E-10	9.96E-10	1.20E-12	1.29E-09
3687	421179.5	3734857	3.46E-09	1.58E-08	3.46E-11	1.93E-08	4.75E-10	2.16E-09	5.15E-12	2.64E-09	2.91E-10	9.95E-10	1.20E-12	1.29E-09
3688	421175.6	3734866	3.45E-09	1.58E-08	3.45E-11	1.93E-08	4.73E-10	2.16E-09	5.14E-12	2.64E-09	2.90E-10	9.92E-10	1.19E-12	1.28E-09
3689	421171.7	3734875	3.44E-09	1.57E-08	3.44E-11	1.92E-08	4.71E-10	2.15E-09	5.12E-12	2.63E-09	2.89E-10	9.88E-10	1.19E-12	1.28E-09
3690	421167.8	3734884	3.43E-09	1.57E-08	3.42E-11	1.91E-08	4.70E-10	2.14E-09	5.10E-12	2.62E-09	2.88E-10	9.84E-10	1.18E-12	1.27E-09
3691	421163.9	3734893	3.42E-09	1.56E-08	3.41E-11	1.91E-08	4.68E-10	2.14E-09	5.08E-12	2.61E-09	2.87E-10	9.82E-10	1.18E-12	1.27E-09
3692	421160	3734902	3.40E-09	1.56E-08	3.40E-11	1.90E-08	4.66E-10	2.13E-09	5.06E-12	2.60E-09	2.86E-10	9.77E-10	1.18E-12	1.26E-09
3693	421156.1	3734911	3.39E-09	1.55E-08	3.38E-11	1.89E-08	4.64E-10	2.12E-09	5.04E-12	2.59E-09	2.85E-10	9.73E-10	1.17E-12	1.26E-09
3694	421152.1	3734920	3.38E-09	1.54E-08	3.37E-11	1.88E-08	4.63E-10	2.11E-09	5.03E-12	2.58E-09	2.84E-10	9.70E-10	1.17E-12	1.26E-09
3695	421148.2	3734930	3.37E-09	1.54E-08	3.36E-11	1.88E-08	4.61E-10	2.10E-09	5.01E-12	2.57E-09	2.83E-10	9.67E-10	1.16E-12	1.25E-09
3696	421144.3	3734939	3.35E-09	1.53E-08	3.35E-11	1.87E-08	4.60E-10	2.10E-09	4.99E-12	2.56E-09	2.82E-10	9.64E-10	1.16E-12	1.25E-09
3697	421131.3	3734951	3.41E-09	1.56E-08	3.41E-11	1.90E-08	4.68E-10	2.13E-09	5.08E-12	2.61E-09	2.87E-10	9.80E-10	1.18E-12	1.27E-09
3698	421122.3	3734955	3.47E-09	1.59E-08	3.47E-11	1.94E-08	4.76E-10	2.17E-09	5.17E-12	2.65E-09	2.92E-10	9.98E-10	1.20E-12	1.29E-09
3699	421086	3734970	3.67E-09	1.68E-08	3.67E-11	2.05E-08	5.04E-10	2.30E-09	5.47E-12	2.81E-09	3.09E-10	1.06E-09	1.27E-12	1.37E-09
3700	421076.9	3734974	3.71E-09	1.69E-08	3.70E-11	2.07E-08	5.08E-10	2.32E-09	5.52E-12	2.83E-09	3.12E-10	1.06E-09	1.28E-12	1.38E-09
3701	421067.8	3734978	3.73E-09	1.71E-08	3.73E-11	2.08E-08	5.11E-10	2.33E-09	5.55E-12	2.85E-09	3.14E-10	1.07E-09	1.29E-12	1.39E-09
3702	421058.8	3734982	3.75E-09	1.71E-08	3.74E-11	2.09E-08	5.13E-10	2.34E-09	5.57E-12	2.86E-09	3.15E-10	1.08E-09	1.29E-12	1.39E-09
3703	421049.7	3734986	3.75E-09	1.72E-08	3.75E-11	2.09E-08	5.14E-10	2.35E-09	5.59E-12	2.87E-09	3.16E-10	1.08E-09	1.30E-12	1.40E-09
3704	421040.6	3734989	3.75E-09	1.71E-08	3.75E-11	2.09E-08	5.14E-10	2.34E-09	5.58E-12	2.86E-09	3.15E-10	1.08E-09	1.30E-12	1.39E-09
3705	421031.5	3734993	3.73E-09	1.71E-08	3.73E-11	2.08E-08	5.11E-10	2.33E-09	5.55E-12	2.85E-09	3.14E-10	1.07E-09	1.29E-12	1.39E-09
3706	421022.5	3734997	3.70E-09	1.69E-08	3.70E-11	2.07E-08	5.07E-10	2.31E-09	5.51E-12	2.83E-09	3.11E-10	1.06E-09	1.28E-12	1.38E-09
3707	420995.2	3735008	3.55E-09	1.63E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	5.29E-12	2.71E-09	2.99E-10	1.02E-09	1.23E-12	1.32E-09
3708	420986.2	3735012	3.48E-09	1.59E-08	3.48E-11	1.95E-08	4.78E-10	2.18E-09	5.19E-12	2.66E-09	2.93E-10	1.00E-09	1.20E-12	1.30E-09
3709	420977.1	3735016	3.41E-09	1.56E-08	3.40E-11	1.90E-08	4.67E-10	2.13E-09	5.07E-12	2.60E-09	2.86E-10	9.79E-10	1.18E-12	1.27E-09
3710	420968	3735020	3.32E-09	1.52E-08	3.31E-11	1.85E-08	4.55E-10	2.07E-09	4.94E-12	2.53E-09	2.79E-10	9.53E-10	1.15E-12	1.23E-09
3711	420913.6	3735043	2.64E-09	1.21E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	3.92E-12	2.01E-09	2.22E-10	7.57E-10	9.11E-13	9.80E-10
3712	420904.5	3735046	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	3.73E-12	1.92E-09	2.11E-10	7.20E-10	8.66E-13	9.32E-10
3713	420895.4	3735050	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.82E-09	2.00E-10	6.83E-10	8.22E-13	8.84E-10
3714	420886.4	3735054	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.41E-09	3.35E-12	1.72E-09	1.89E-10	6.46E-10	7.77E-13	8.36E-10
3715	420877.3	3735058	2.12E-09	9.69E-09	2.12E-11	1.18E-08	2.90E-10	1.32E-09	3.15E-12	1.62E-09	1.78E-10	6.09E-10	7.32E-13	7.88E-10
3716	420868.2	3735062	1.99E-09	9.11E-09	1.99E-11	1.11E-08	2.73E-10	1.25E-09	2.96E-12	1.52E-09	1.68E-10	5.72E-10	6.88E-13	7.40E-10
3717	420859.2	3735065	1.86E-09	8.52E-09	1.86E-11	1.04E-08	2.55E-10	1.17E-09	2.77E-12	1.42E-09	1.57E-10	5.35E-10	6.44E-13	6.93E-10
3718	420850.1	3735069	1.74E-09	7.95E-09	1.74E-11	9.70E-09	2.38E-10	1.09E-09	2.59E-12	1.33E-09	1.46E-10	5.00E-10	6.01E-13	6.46E-10
3719	420841	3735073	1.62E-09	7.39E-09	1.62E-11	9.02E-09	2.22E-10	1.01E-09	2.41E-12	1.23E-09	1.36E-10	4.64E-10	5.59E-13	6.01E-10

3720	420831.9	3735077	1.50E-09	6.88E-09	1.50E-11	8.40E-09	2.06E-10	9.41E-10	2.24E-12	1.15E-09	1.27E-10	4.32E-10	5.20E-13	5.59E-10
3721	421313.1	3734530	1.13E-09	5.16E-09	1.13E-11	6.30E-09	1.55E-10	7.05E-10	1.68E-12	8.62E-10	9.49E-11	3.24E-10	3.90E-13	4.20E-10
3722	421313.4	3734520	1.08E-09	4.93E-09	1.08E-11	6.01E-09	1.48E-10	6.74E-10	1.60E-12	8.23E-10	9.06E-11	3.10E-10	3.72E-13	4.01E-10
3723	421344.7	3734570	1.14E-09	5.23E-09	1.14E-11	6.39E-09	1.57E-10	7.16E-10	1.70E-12	8.74E-10	9.63E-11	3.29E-10	3.96E-13	4.26E-10
3724	421340.8	3734579	1.20E-09	5.48E-09	1.20E-11	6.69E-09	1.64E-10	7.50E-10	1.79E-12	9.16E-10	1.01E-10	3.45E-10	4.14E-13	4.46E-10
3725	421336.9	3734588	1.26E-09	5.77E-09	1.26E-11	7.04E-09	1.73E-10	7.89E-10	1.88E-12	9.63E-10	1.06E-10	3.62E-10	4.36E-13	4.69E-10
3726	421333	3734597	1.33E-09	6.06E-09	1.33E-11	7.40E-09	1.82E-10	8.29E-10	1.97E-12	1.01E-09	1.12E-10	3.81E-10	4.58E-13	4.93E-10
3727	421329.1	3734606	1.39E-09	6.36E-09	1.39E-11	7.77E-09	1.91E-10	8.70E-10	2.07E-12	1.06E-09	1.17E-10	4.00E-10	4.81E-13	5.18E-10
3728	421325.2	3734615	1.46E-09	6.68E-09	1.46E-11	8.16E-09	2.00E-10	9.14E-10	2.18E-12	1.12E-09	1.23E-10	4.20E-10	5.05E-13	5.44E-10
3729	421321.2	3734624	1.54E-09	7.02E-09	1.54E-11	8.57E-09	2.11E-10	9.60E-10	2.29E-12	1.17E-09	1.29E-10	4.41E-10	5.31E-13	5.71E-10
3730	421317.3	3734633	1.61E-09	7.38E-09	1.61E-11	9.01E-09	2.21E-10	1.01E-09	2.40E-12	1.23E-09	1.36E-10	4.64E-10	5.58E-13	6.00E-10
3731	421313.4	3734642	1.70E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	2.52E-12	1.29E-09	1.43E-10	4.87E-10	5.86E-13	6.30E-10
3732	421309.5	3734651	1.78E-09	8.12E-09	1.78E-11	9.92E-09	2.44E-10	1.11E-09	2.64E-12	1.36E-09	1.49E-10	5.10E-10	6.14E-13	6.60E-10
3733	421305.6	3734660	1.86E-09	8.49E-09	1.86E-11	1.04E-08	2.55E-10	1.16E-09	2.77E-12	1.42E-09	1.56E-10	5.34E-10	6.42E-13	6.91E-10
3734	421301.7	3734669	1.94E-09	8.86E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	2.89E-12	1.48E-09	1.63E-10	5.57E-10	6.70E-13	7.21E-10
3735	421278.2	3734723	2.37E-09	1.08E-08	2.36E-11	1.32E-08	3.24E-10	1.48E-09	3.52E-12	1.81E-09	1.99E-10	6.80E-10	8.17E-13	8.79E-10
3736	421274.3	3734732	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.33E-10	1.52E-09	3.62E-12	1.86E-09	2.04E-10	6.98E-10	8.39E-13	9.03E-10
3737	421270.3	3734741	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	3.71E-12	1.90E-09	2.09E-10	7.15E-10	8.60E-13	9.26E-10
3738	421266.4	3734750	2.55E-09	1.17E-08	2.55E-11	1.42E-08	3.49E-10	1.59E-09	3.79E-12	1.95E-09	2.14E-10	7.32E-10	8.81E-13	9.48E-10
3739	421262.5	3734759	2.61E-09	1.19E-08	2.61E-11	1.45E-08	3.57E-10	1.63E-09	3.88E-12	1.99E-09	2.19E-10	7.49E-10	9.01E-13	9.69E-10
3740	421258.6	3734768	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.16E-13	9.85E-10
3741	421254.7	3734777	2.70E-09	1.24E-08	2.70E-11	1.51E-08	3.71E-10	1.69E-09	4.03E-12	2.07E-09	2.28E-10	7.77E-10	9.35E-13	1.01E-09
3742	421250.8	3734786	2.76E-09	1.26E-08	2.75E-11	1.54E-08	3.78E-10	1.72E-09	4.10E-12	2.10E-09	2.32E-10	7.92E-10	9.52E-13	1.02E-09
3743	421246.8	3734795	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.84E-10	1.75E-09	4.17E-12	2.14E-09	2.36E-10	8.05E-10	9.68E-13	1.04E-09
3744	421235.1	3734822	2.91E-09	1.33E-08	2.91E-11	1.62E-08	3.98E-10	1.82E-09	4.33E-12	2.22E-09	2.45E-10	8.35E-10	1.00E-12	1.08E-09
3745	421231.2	3734831	2.93E-09	1.34E-08	2.93E-11	1.64E-08	4.02E-10	1.83E-09	4.37E-12	2.24E-09	2.47E-10	8.43E-10	1.01E-12	1.09E-09
3746	421227.3	3734841	2.96E-09	1.35E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	4.41E-12	2.26E-09	2.49E-10	8.51E-10	1.02E-12	1.10E-09
3747	421223.3	3734850	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.09E-10	1.86E-09	4.44E-12	2.28E-09	2.51E-10	8.57E-10	1.03E-12	1.11E-09
3748	421219.4	3734859	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.10E-10	1.87E-09	4.46E-12	2.29E-09	2.52E-10	8.60E-10	1.03E-12	1.11E-09
3749	421215.5	3734868	3.00E-09	1.37E-08	3.00E-11	1.67E-08	4.11E-10	1.88E-09	4.47E-12	2.29E-09	2.52E-10	8.62E-10	1.04E-12	1.12E-09
3750	421211.6	3734877	3.00E-09	1.37E-08	3.00E-11	1.68E-08	4.11E-10	1.88E-09	4.47E-12	2.29E-09	2.52E-10	8.62E-10	1.04E-12	1.12E-09
3751	421207.7	3734886	3.00E-09	1.37E-08	3.00E-11	1.68E-08	4.12E-10	1.88E-09	4.47E-12	2.29E-09	2.53E-10	8.63E-10	1.04E-12	1.12E-09
3752	421203.8	3734895	3.01E-09	1.37E-08	3.00E-11	1.68E-08	4.12E-10	1.88E-09	4.47E-12	2.30E-09	2.53E-10	8.64E-10	1.04E-12	1.12E-09
3753	421199.8	3734904	3.00E-09	1.37E-08	3.00E-11	1.68E-08	4.12E-10	1.88E-09	4.47E-12	2.29E-09	2.53E-10	8.63E-10	1.04E-12	1.12E-09
3754	421195.9	3734913	3.00E-09	1.37E-08	3.00E-11	1.67E-08	4.11E-10	1.88E-09	4.46E-12	2.29E-09	2.52E-10	8.62E-10	1.04E-12	1.12E-09
3755	421192	3734922	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.11E-10	1.87E-09	4.46E-12	2.29E-09	2.52E-10	8.61E-10	1.03E-12	1.11E-09
3756	421188.1	3734931	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.09E-10	1.87E-09	4.45E-12	2.28E-09	2.51E-10	8.58E-10	1.03E-12	1.11E-09
3757	421184.2	3734940	2.98E-09	1.36E-08	2.97E-11	1.66E-08	4.08E-10	1.86E-09	4.43E-12	2.27E-09	2.50E-10	8.55E-10	1.03E-12	1.11E-09
3758	421180.3	3734949	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.85E-09	4.42E-12	2.27E-09	2.50E-10	8.53E-10	1.03E-12	1.10E-09
3759	421176.4	3734958	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.05E-10	1.85E-09	4.40E-12	2.26E-09	2.49E-10	8.49E-10	1.02E-12	1.10E-09
3760	421172.4	3734967	2.94E-09	1.34E-08	2.94E-11	1.64E-08	4.03E-10	1.84E-09	4.38E-12	2.25E-09	2.47E-10	8.45E-10	1.02E-12	1.09E-09
3761	421159.4	3734980	2.98E-09	1.36E-08	2.98E-11	1.67E-08	4.09E-10	1.87E-09	4.44E-12	2.28E-09	2.51E-10	8.58E-10	1.03E-12	1.11E-09
3762	421150.4	3734984	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	4.52E-12	2.32E-09	2.56E-10	8.73E-10	1.05E-12	1.13E-09
3763	421141.3	3734987	3.09E-09	1.41E-08	3.09E-11	1.72E-08	4.24E-10	1.93E-09	4.60E-12	2.36E-09	2.60E-10	8.88E-10	1.07E-12	1.15E-09
3764	421132.2	3734991	3.13E-09	1.43E-08	3.13E-11	1.75E-08	4.30E-10	1.96E-09	4.67E-12	2.39E-09	2.64E-10	9.01E-10	1.08E-12	1.17E-09
3765	421123.1	3734995	3.18E-09	1.45E-08	3.17E-11	1.77E-08	4.35E-10	1.99E-09	4.73E-12	2.43E-09	2.67E-10	9.12E-10	1.10E-12	1.18E-09
3766	421086.8	3735010	3.27E-09	1.50E-08	3.27E-11	1.83E-08	4.48E-10	2.05E-09	4.87E-12	2.50E-09	2.75E-10	9.40E-10	1.13E-12	1.22E-09
3767	421077.7	3735014	3.28E-09	1.50E-08	3.27E-11	1.83E-08	4.49E-10	2.05E-09	4.88E-12	2.50E-09	2.76E-10	9.41E-10	1.13E-12	1.22E-09
3768	421068.6	3735018	3.27E-09	1.50E-08	3.27E-11	1.83E-08	4.48E-10	2.05E-09	4.87E-12	2.50E-09	2.75E-10	9.40E-10	1.13E-12	1.22E-09
3769	421059.6	3735022	3.25E-09	1.49E-08	3.25E-11	1.82E-08	4.46E-10	2.04E-09	4.85E-12	2.49E-09	2.74E-10	9.35E-10	1.12E-12	1.21E-09
3770	421014.2	3735041	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.25E-10	1.94E-09	4.61E-12	2.37E-09	2.61E-10	8.90E-10	1.07E-12	1.15E-09
3771	421005.1	3735045	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	4.53E-12	2.33E-09	2.56E-10	8.75E-10	1.05E-12	1.13E-09
3772	420996	3735048	2.98E-09	1.36E-08	2.98E-11	1.66E-08	4.09E-10	1.86E-09	4.44E-12	2.28E-09	2.51E-10	8.57E-10	1.03E-12	1.11E-09
3773	420986.9	3735052	2.91E-09	1.33E-08	2.91E-11	1.62E-08	3.99E-10	1.82E-09	4.33E-12	2.22E-09	2.45E-10	8.36E-10	1.01E-12	1.08E-09
3774	420977.9	3735056	2.83E-09	1.29E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	4.21E-12	2.16E-09	2.38E-10	8.13E-10	9.78E-13	1.05E-09
3775	420968.8	3735060	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.76E-10	1.71E-09	4.08E-12	2.09E-09	2.31E-10	7.88E-10	9.48E-13	1.02E-09
3776	420959.7	3735064	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.95E-12	2.03E-09	2.23E-10	7.62E-10	9.16E-13	9.86E-10
3777	420950.6	3735067	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.95E-09	2.15E-10	7.35E-10	8.84E-13	9.52E-10
3778	420941.5	3735071	2.46E-09	1.13E-08	2.46E-11	1.37E-08	3.38E-10	1.54E-09	3.67E-12	1.88E-09	2.07E-10	7.08E-10	8.51E-13	9.16E-10
3779	420932.5	3735075	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.24E-10	1.48E-09	3.52E-12	1.80E-09	1.99E-10	6.79E-10	8.16E-13	8.78E-10
3780	420923.4	3735079	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	3.36E-12	1.72E-09	1.90E-10	6.49E-10	7.80E-13	8.40E-10
3781	420914.3	3735083	2.15E-09	9.83E-09	2.15E-11	1.20E-08	2.95E-10	1.34E-09	3.20E-12	1.64E-09	1.81E-10	6.18E-10	7.43E-13	7.99E-10
3782	420905.2	3735086	2.04E-09	9.33E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	3.04E-12	1.56E-09	1.72E-10	5.86E-10	7.05E-13	7.59E-10
3783	420896.1	3735090	1.93E-09	8.83E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	2.88E-12	1.48E-09	1.63E-10	5.55E-10	6.68E-13	7.18E-10
3784	420887.1	3735094	1.83E-09	8.35E-09	1.83E-11	1.02E-08	2.50E-10	1.14E-09	2.72E-12	1.40E-09	1.54E-10	5.25E-10	6.31E-13	6.79E-10
3785	420878	3735098	1.72E-09	7.87E-09	1.72E-11	9.61E-09	2.36E-10	1.08E-09	2.56E-12	1.31E-09	1.45E-10	4.94E-10	5.95E-13	6.40E-10
3786	420868.9	3735102	1.62E-09	7.38E-09	1.61E-11	9.02E-09	2.21E-10	1.01E-09	2.40E-12	1.23E-09	1.36E-10	4.64E-10	5.58E-13	6.01E-10
3787	420859.8	3735105	1.51E-09	6.90E-09	1.51E-11	8.43E-09	2.07E-10	9.44E-10	2.25E-12	1.15E-09	1.27E-10	4.34E-10	5.22E-13	5.61E-10
3788	420850.7	3735109	1.41E-09	6.44E-09	1.41E-11	7.86E-09	1.93E-10	8.81E-10	2.10E-12	1.08E-09	1.19E-10	4.05E-10	4.87E-13	5.24E-10
3789	420841.7	3735113	1.31E-09	6.00E-09	1.31E-11	7.33E-09	1.80E-10	8.21E-10	1.95E-12	1.00E-09	1.10E-10	3.77E-10	4.54E-13	4.88E-10
3790	420832.6	3735117	1.23E-09	5.60E-09	1.22E-11	6.84E-09	1.68E-10	7.66E-10	1.82E-12	9.36E-10	1.03E-10	3.52E-10	4.23E-13	4.56E-10
3791	420823.5	3735121	1.14E-09	5.22E-09	1.14E-11	6.38E-09	1.57E-10	7.14E-10	1.70E-12	8.73E-10	9.61E-11	3.28E-10	3.95E-13	4.25E-10
3792	421369	3734607	1.18E-09	5.40E-09	1.18E-11	6.60E-09	1.62E-10	7.39E-10	1.76E-12	9.03E-10	9.94E-11	3.40E-10	4.08E-13	4.39E-10

3793	421365.1	3734616	1.24E-09	5.67E-09	1.24E-11	6.92E-09	1.70E-10	7.75E-10	1.85E-12	9.47E-10	1.04E-10	3.56E-10	4.29E-13	4.61E-10
3794	421361.2	3734625	1.30E-09	5.95E-09	1.30E-11	7.26E-09	1.78E-10	8.14E-10	1.94E-12	9.94E-10	1.09E-10	3.74E-10	4.50E-13	4.84E-10
3795	421357.3	3734634	1.36E-09	6.24E-09	1.36E-11	7.61E-09	1.87E-10	8.53E-10	2.03E-12	1.04E-09	1.15E-10	3.92E-10	4.71E-13	5.07E-10
3796	421353.4	3734643	1.43E-09	6.52E-09	1.43E-11	7.96E-09	1.96E-10	8.92E-10	2.12E-12	1.09E-09	1.20E-10	4.10E-10	4.93E-13	5.31E-10
3797	421349.5	3734652	1.49E-09	6.81E-09	1.49E-11	8.31E-09	2.04E-10	9.31E-10	2.22E-12	1.14E-09	1.25E-10	4.28E-10	5.14E-13	5.54E-10
3798	421345.5	3734661	1.55E-09	7.10E-09	1.55E-11	8.67E-09	2.13E-10	9.71E-10	2.31E-12	1.19E-09	1.31E-10	4.46E-10	5.37E-13	5.77E-10
3799	421341.6	3734670	1.62E-09	7.40E-09	1.62E-11	9.03E-09	2.22E-10	1.01E-09	2.41E-12	1.24E-09	1.36E-10	4.65E-10	5.59E-13	6.02E-10
3800	421337.7	3734679	1.69E-09	7.71E-09	1.68E-11	9.41E-09	2.31E-10	1.05E-09	2.51E-12	1.29E-09	1.42E-10	4.84E-10	5.82E-13	6.27E-10
3801	421333.8	3734688	1.75E-09	8.01E-09	1.75E-11	9.78E-09	2.40E-10	1.10E-09	2.61E-12	1.34E-09	1.47E-10	5.03E-10	6.05E-13	6.51E-10
3802	421329.9	3734697	1.82E-09	8.31E-09	1.82E-11	1.01E-08	2.49E-10	1.14E-09	2.71E-12	1.39E-09	1.53E-10	5.22E-10	6.28E-13	6.76E-10
3803	421325.9	3734706	1.88E-09	8.59E-09	1.88E-11	1.05E-08	2.58E-10	1.17E-09	2.80E-12	1.44E-09	1.58E-10	5.40E-10	6.49E-13	6.99E-10
3804	421322	3734715	1.94E-09	8.86E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	2.88E-12	1.48E-09	1.63E-10	5.57E-10	6.70E-13	7.20E-10
3805	421318.1	3734724	2.00E-09	9.12E-09	1.99E-11	1.11E-08	2.74E-10	1.25E-09	2.97E-12	1.52E-09	1.68E-10	5.73E-10	6.90E-13	7.42E-10
3806	421314.2	3734733	2.05E-09	9.38E-09	2.05E-11	1.15E-08	2.81E-10	1.28E-09	3.05E-12	1.57E-09	1.73E-10	5.90E-10	7.09E-13	7.63E-10
3807	421310.3	3734742	2.10E-09	9.62E-09	2.10E-11	1.17E-08	2.89E-10	1.32E-09	3.13E-12	1.61E-09	1.77E-10	6.05E-10	7.27E-13	7.83E-10
3808	421306.4	3734751	2.16E-09	9.85E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	3.21E-12	1.65E-09	1.81E-10	6.19E-10	7.45E-13	8.01E-10
3809	421302.4	3734760	2.20E-09	1.01E-08	2.20E-11	1.23E-08	3.02E-10	1.38E-09	3.28E-12	1.68E-09	1.85E-10	6.33E-10	7.61E-13	8.19E-10
3810	421275	3734824	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.57E-09	3.73E-12	1.91E-09	2.11E-10	7.19E-10	8.65E-13	9.31E-10
3811	421271.1	3734833	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	3.77E-12	1.93E-09	2.13E-10	7.27E-10	8.75E-13	9.41E-10
3812	421267.2	3734842	2.56E-09	1.17E-08	2.55E-11	1.43E-08	3.50E-10	1.60E-09	3.80E-12	1.95E-09	2.15E-10	7.34E-10	8.83E-13	9.50E-10
3813	421263.2	3734851	2.58E-09	1.18E-08	2.57E-11	1.44E-08	3.53E-10	1.61E-09	3.83E-12	1.97E-09	2.17E-10	7.40E-10	8.90E-13	9.58E-10
3814	421259.3	3734860	2.59E-09	1.19E-08	2.59E-11	1.45E-08	3.56E-10	1.62E-09	3.86E-12	1.98E-09	2.18E-10	7.46E-10	8.97E-13	9.65E-10
3815	421255.4	3734869	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	3.89E-12	1.99E-09	2.20E-10	7.50E-10	9.02E-13	9.70E-10
3816	421251.5	3734878	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	3.90E-12	2.00E-09	2.21E-10	7.53E-10	9.06E-13	9.75E-10
3817	421247.6	3734887	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.64E-09	3.92E-12	2.01E-09	2.21E-10	7.56E-10	9.09E-13	9.78E-10
3818	421243.7	3734896	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	3.93E-12	2.01E-09	2.22E-10	7.58E-10	9.11E-13	9.81E-10
3819	421239.7	3734905	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	3.93E-12	2.02E-09	2.22E-10	7.59E-10	9.13E-13	9.82E-10
3820	421235.8	3734914	2.64E-09	1.21E-08	2.64E-11	1.48E-08	3.62E-10	1.65E-09	3.94E-12	2.02E-09	2.22E-10	7.60E-10	9.14E-13	9.83E-10
3821	421231.9	3734923	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.15E-13	9.84E-10
3822	421228	3734932	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.15E-13	9.84E-10
3823	421224.1	3734941	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.15E-13	9.84E-10
3824	421220.1	3734950	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.15E-13	9.85E-10
3825	421216.2	3734959	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.15E-13	9.84E-10
3826	421212.3	3734968	2.64E-09	1.21E-08	2.64E-11	1.48E-08	3.62E-10	1.65E-09	3.94E-12	2.02E-09	2.22E-10	7.60E-10	9.14E-13	9.83E-10
3827	421208.4	3734977	2.64E-09	1.21E-08	2.64E-11	1.47E-08	3.62E-10	1.65E-09	3.93E-12	2.02E-09	2.22E-10	7.58E-10	9.12E-13	9.81E-10
3828	421204.5	3734986	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.64E-09	3.92E-12	2.01E-09	2.21E-10	7.56E-10	9.09E-13	9.78E-10
3829	421200.6	3734995	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	3.90E-12	2.00E-09	2.20E-10	7.52E-10	9.05E-13	9.74E-10
3830	421187.5	3735008	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.64E-10	1.66E-09	3.95E-12	2.03E-09	2.23E-10	7.62E-10	9.17E-13	9.87E-10
3831	421178.5	3735012	2.70E-09	1.23E-08	2.69E-11	1.51E-08	3.70E-10	1.69E-09	4.01E-12	2.06E-09	2.27E-10	7.75E-10	9.32E-13	1.00E-09
3832	421169.4	3735016	2.74E-09	1.25E-08	2.74E-11	1.53E-08	3.75E-10	1.71E-09	4.07E-12	2.09E-09	2.30E-10	7.86E-10	9.46E-13	1.02E-09
3833	421160.3	3735020	2.78E-09	1.27E-08	2.77E-11	1.55E-08	3.81E-10	1.74E-09	4.13E-12	2.12E-09	2.34E-10	7.98E-10	9.59E-13	1.03E-09
3834	421151.2	3735024	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.85E-10	1.76E-09	4.19E-12	2.15E-09	2.37E-10	8.08E-10	9.72E-13	1.05E-09
3835	421142.1	3735027	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.90E-10	1.78E-09	4.23E-12	2.17E-09	2.39E-10	8.17E-10	9.82E-13	1.06E-09
3836	421133	3735031	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.93E-10	1.79E-09	4.27E-12	2.19E-09	2.41E-10	8.24E-10	9.91E-13	1.07E-09
3837	421124	3735035	2.89E-09	1.32E-08	2.88E-11	1.61E-08	3.96E-10	1.80E-09	4.30E-12	2.20E-09	2.43E-10	8.29E-10	9.97E-13	1.07E-09
3838	421087.6	3735050	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	4.30E-12	2.21E-09	2.43E-10	8.31E-10	9.99E-13	1.07E-09
3839	421078.5	3735054	2.88E-09	1.32E-08	2.88E-11	1.61E-08	3.94E-10	1.80E-09	4.28E-12	2.20E-09	2.42E-10	8.27E-10	9.94E-13	1.07E-09
3840	421069.4	3735058	2.86E-09	1.31E-08	2.86E-11	1.60E-08	3.92E-10	1.79E-09	4.26E-12	2.19E-09	2.41E-10	8.22E-10	9.89E-13	1.06E-09
3841	421060.4	3735062	2.84E-09	1.30E-08	2.84E-11	1.59E-08	3.89E-10	1.78E-09	4.23E-12	2.17E-09	2.39E-10	8.16E-10	9.82E-13	1.06E-09
3842	421051.3	3735065	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.86E-10	1.76E-09	4.19E-12	2.15E-09	2.37E-10	8.09E-10	9.73E-13	1.05E-09
3843	421042.2	3735069	2.79E-09	1.27E-08	2.78E-11	1.56E-08	3.82E-10	1.74E-09	4.15E-12	2.13E-09	2.34E-10	8.01E-10	9.63E-13	1.04E-09
3844	421033.1	3735073	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	4.09E-12	2.10E-09	2.31E-10	7.90E-10	9.50E-13	1.02E-09
3845	421024	3735077	2.71E-09	1.24E-08	2.71E-11	1.51E-08	3.71E-10	1.69E-09	4.03E-12	2.07E-09	2.28E-10	7.78E-10	9.36E-13	1.01E-09
3846	421014.9	3735081	2.66E-09	1.21E-08	2.66E-11	1.48E-08	3.64E-10	1.66E-09	3.96E-12	2.03E-09	2.24E-10	7.64E-10	9.18E-13	9.88E-10
3847	421005.8	3735084	2.60E-09	1.19E-08	2.60E-11	1.45E-08	3.56E-10	1.62E-09	3.87E-12	1.98E-09	2.19E-10	7.47E-10	8.98E-13	9.66E-10
3848	420996.8	3735088	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	3.77E-12	1.93E-09	2.13E-10	7.28E-10	8.75E-13	9.42E-10
3849	420987.7	3735092	2.46E-09	1.13E-08	2.46E-11	1.37E-08	3.38E-10	1.54E-09	3.67E-12	1.88E-09	2.07E-10	7.08E-10	8.51E-13	9.16E-10
3850	420978.6	3735096	2.39E-09	1.09E-08	2.39E-11	1.33E-08	3.27E-10	1.49E-09	3.55E-12	1.82E-09	2.01E-10	6.86E-10	8.25E-13	8.88E-10
3851	420969.5	3735100	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.16E-10	1.44E-09	3.44E-12	1.76E-09	1.94E-10	6.63E-10	7.97E-13	8.58E-10
3852	420960.4	3735103	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	3.31E-12	1.70E-09	1.87E-10	6.39E-10	7.69E-13	8.27E-10
3853	420951.3	3735107	2.14E-09	9.79E-09	2.14E-11	1.20E-08	2.93E-10	1.34E-09	3.19E-12	1.64E-09	1.80E-10	6.15E-10	7.40E-13	7.96E-10
3854	420942.2	3735111	2.06E-09	9.40E-09	2.05E-11	1.15E-08	2.82E-10	1.28E-09	3.06E-12	1.57E-09	1.73E-10	5.91E-10	7.10E-13	7.64E-10
3855	420933.2	3735115	1.97E-09	9.00E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	2.93E-12	1.50E-09	1.66E-10	5.66E-10	6.80E-13	7.32E-10
3856	420924.1	3735119	1.88E-09	8.58E-09	1.88E-11	1.05E-08	2.57E-10	1.17E-09	2.79E-12	1.43E-09	1.58E-10	5.40E-10	6.49E-13	6.98E-10
3857	420915	3735123	1.79E-09	8.16E-09	1.78E-11	9.97E-09	2.45E-10	1.12E-09	2.66E-12	1.36E-09	1.50E-10	5.13E-10	6.17E-13	6.64E-10
3858	420905.9	3735126	1.69E-09	7.74E-09	1.69E-11	9.45E-09	2.32E-10	1.06E-09	2.52E-12	1.29E-09	1.42E-10	4.87E-10	5.85E-13	6.30E-10
3859	420896.8	3735130	1.60E-09	7.32E-09	1.60E-11	8.94E-09	2.19E-10	1.00E-09	2.38E-12	1.22E-09	1.35E-10	4.60E-10	5.53E-13	5.95E-10
3860	420887.7	3735134	1.51E-09	6.89E-09	1.51E-11	8.41E-09	2.07E-10	9.42E-10	2.24E-12	1.15E-09	1.27E-10	4.33E-10	5.21E-13	5.60E-10
3861	420878.7	3735138	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	2.10E-12	1.08E-09	1.19E-10	4.06E-10	4.89E-13	5.26E-10
3862	420869.6	3735142	1.32E-09	6.05E-09	1.32E-11	7.39E-09	1.81E-10	8.27E-10	1.97E-12	1.01E-09	1.11E-10	3.80E-10	4.57E-13	4.92E-10
3863	420860.5	3735145	1.24E-09	5.66E-09	1.24E-11	6.91E-09	1.70E-10	7.74E-10	1.84E-12	9.46E-10	1.04E-10	3.56E-10	4.28E-13	4.60E-10
3864	420851.4	3735149	1.16E-09	5.28E-09	1.16E-11	6.45E-09	1.58E-10	7.23E-10	1.72E-12	8.83E-10	9.72E-11	3.32E-10	3.99E-13	4.30E-10
3865	420842.3	3735153	1.08E-09	4.93E-09	1.08E-11	6.02E-09	1.48E-10	6.74E-10	1.60E-12	8.23E-10	9.07E-11	3.10E-10	3.73E-13	4.01E-10

3866	420787.8	3735176	7.18E-10	3.28E-09	7.18E-12	4.01E-09	9.85E-11	4.49E-10	1.07E-12	5.49E-10	6.04E-11	2.06E-10	2.48E-13	2.67E-10
3867	420778.7	3735180	6.73E-10	3.08E-09	6.73E-12	3.76E-09	9.23E-11	4.21E-10	1.00E-12	5.14E-10	5.66E-11	1.93E-10	2.33E-13	2.50E-10
3868	420769.6	3735183	6.28E-10	2.87E-09	6.28E-12	3.51E-09	8.61E-11	3.93E-10	9.35E-13	4.80E-10	5.29E-11	1.81E-10	2.17E-13	2.34E-10
3869	420760.5	3735187	5.87E-10	2.68E-09	5.87E-12	3.28E-09	8.05E-11	3.67E-10	8.74E-13	4.48E-10	4.94E-11	1.69E-10	2.03E-13	2.18E-10
3870	420751.5	3735191	5.50E-10	2.51E-09	5.49E-12	3.07E-09	7.53E-11	3.44E-10	8.18E-13	4.20E-10	4.62E-11	1.58E-10	1.90E-13	2.04E-10
3871	421393.1	3734533	8.26E-10	3.77E-09	8.25E-12	4.61E-09	1.13E-10	5.16E-10	1.23E-12	6.31E-10	6.95E-11	2.37E-10	2.85E-13	3.07E-10
3872	421393.4	3734523	7.94E-10	3.63E-09	7.93E-12	4.43E-09	1.09E-10	4.96E-10	1.18E-12	6.06E-10	6.68E-11	2.28E-10	2.74E-13	2.95E-10
3873	421424.7	3734572	8.49E-10	3.88E-09	8.49E-12	4.74E-09	1.16E-10	5.31E-10	1.26E-12	6.49E-10	7.15E-11	2.44E-10	2.94E-13	3.16E-10
3874	421420.8	3734581	8.89E-10	4.06E-09	8.88E-12	4.96E-09	1.22E-10	5.56E-10	1.32E-12	6.79E-10	7.48E-11	2.55E-10	3.07E-13	3.30E-10
3875	421416.9	3734590	9.31E-10	4.26E-09	9.31E-12	5.20E-09	1.28E-10	5.82E-10	1.39E-12	7.11E-10	7.83E-11	2.68E-10	3.22E-13	3.46E-10
3876	421412.9	3734599	9.76E-10	4.46E-09	9.75E-12	5.45E-09	1.34E-10	6.10E-10	1.45E-12	7.45E-10	8.21E-11	2.80E-10	3.37E-13	3.63E-10
3877	421409	3734608	1.02E-09	4.67E-09	1.02E-11	5.70E-09	1.40E-10	6.39E-10	1.52E-12	7.80E-10	8.60E-11	2.94E-10	3.53E-13	3.80E-10
3878	421405.1	3734617	1.07E-09	4.88E-09	1.07E-11	5.96E-09	1.46E-10	6.68E-10	1.59E-12	8.16E-10	8.99E-11	3.07E-10	3.69E-13	3.97E-10
3879	421401.2	3734626	1.12E-09	5.10E-09	1.12E-11	6.23E-09	1.53E-10	6.98E-10	1.66E-12	8.53E-10	9.39E-11	3.21E-10	3.86E-13	4.15E-10
3880	421397.3	3734635	1.17E-09	5.33E-09	1.17E-11	6.51E-09	1.60E-10	7.29E-10	1.74E-12	8.91E-10	9.81E-11	3.35E-10	4.03E-13	4.34E-10
3881	421393.3	3734644	1.22E-09	5.57E-09	1.22E-11	6.80E-09	1.67E-10	7.61E-10	1.81E-12	9.30E-10	1.02E-10	3.50E-10	4.21E-13	4.53E-10
3882	421365.9	3734707	1.59E-09	7.28E-09	1.59E-11	8.89E-09	2.18E-10	9.95E-10	2.37E-12	1.22E-09	1.34E-10	4.57E-10	5.50E-13	5.92E-10
3883	421362	3734716	1.64E-09	7.51E-09	1.64E-11	9.17E-09	2.25E-10	1.03E-09	2.45E-12	1.26E-09	1.38E-10	4.72E-10	5.68E-13	6.11E-10
3884	421358.1	3734725	1.69E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	2.52E-12	1.29E-09	1.43E-10	4.87E-10	5.86E-13	6.30E-10
3885	421354.1	3734735	1.75E-09	7.98E-09	1.74E-11	9.74E-09	2.39E-10	1.09E-09	2.60E-12	1.33E-09	1.47E-10	5.02E-10	6.03E-13	6.49E-10
3886	421350.2	3734744	1.79E-09	8.21E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	2.67E-12	1.37E-09	1.51E-10	5.16E-10	6.20E-13	6.67E-10
3887	421346.3	3734753	1.84E-09	8.42E-09	1.84E-11	1.03E-08	2.52E-10	1.15E-09	2.74E-12	1.41E-09	1.55E-10	5.29E-10	6.36E-13	6.85E-10
3888	421342.4	3734762	1.87E-09	8.54E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.37E-10	6.46E-13	6.95E-10
3889	421338.4	3734771	1.92E-09	8.77E-09	1.92E-11	1.07E-08	2.63E-10	1.20E-09	2.85E-12	1.46E-09	1.61E-10	5.51E-10	6.63E-13	7.13E-10
3890	421334.5	3734780	1.96E-09	8.98E-09	1.96E-11	1.10E-08	2.69E-10	1.23E-09	2.92E-12	1.50E-09	1.65E-10	5.64E-10	6.79E-13	7.30E-10
3891	421330.6	3734789	2.01E-09	9.19E-09	2.01E-11	1.12E-08	2.75E-10	1.26E-09	2.99E-12	1.53E-09	1.69E-10	5.77E-10	6.94E-13	7.47E-10
3892	421326.7	3734798	2.05E-09	9.37E-09	2.05E-11	1.14E-08	2.81E-10	1.28E-09	3.05E-12	1.57E-09	1.72E-10	5.89E-10	7.09E-13	7.62E-10
3893	421314.9	3734825	2.16E-09	9.87E-09	2.16E-11	1.20E-08	2.96E-10	1.35E-09	3.21E-12	1.65E-09	1.82E-10	6.20E-10	7.46E-13	8.02E-10
3894	421311	3734834	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.00E-10	1.37E-09	3.26E-12	1.67E-09	1.84E-10	6.30E-10	7.57E-13	8.15E-10
3895	421307.1	3734843	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.04E-10	1.39E-09	3.31E-12	1.70E-09	1.87E-10	6.38E-10	7.67E-13	8.26E-10
3896	421303.2	3734852	2.25E-09	1.03E-08	2.25E-11	1.25E-08	3.08E-10	1.40E-09	3.34E-12	1.72E-09	1.89E-10	6.46E-10	7.76E-13	8.35E-10
3897	421299.2	3734861	2.27E-09	1.04E-08	2.27E-11	1.27E-08	3.11E-10	1.42E-09	3.38E-12	1.73E-09	1.91E-10	6.51E-10	7.83E-13	8.43E-10
3898	421295.3	3734870	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.13E-10	1.43E-09	3.40E-12	1.74E-09	1.92E-10	6.56E-10	7.89E-13	8.49E-10
3899	421291.4	3734879	2.29E-09	1.05E-08	2.29E-11	1.28E-08	3.15E-10	1.43E-09	3.42E-12	1.75E-09	1.93E-10	6.59E-10	7.93E-13	8.53E-10
3900	421287.5	3734888	2.31E-09	1.06E-08	2.31E-11	1.29E-08	3.17E-10	1.45E-09	3.44E-12	1.77E-09	1.95E-10	6.65E-10	8.00E-13	8.60E-10
3901	421283.6	3734897	2.33E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.47E-12	1.78E-09	1.96E-10	6.70E-10	8.06E-13	8.67E-10
3902	421279.6	3734906	2.34E-09	1.07E-08	2.34E-11	1.31E-08	3.21E-10	1.47E-09	3.49E-12	1.79E-09	1.97E-10	6.74E-10	8.10E-13	8.72E-10
3903	421275.7	3734915	2.36E-09	1.08E-08	2.35E-11	1.32E-08	3.23E-10	1.47E-09	3.51E-12	1.80E-09	1.98E-10	6.77E-10	8.14E-13	8.76E-10
3904	421271.8	3734924	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.24E-10	1.48E-09	3.52E-12	1.81E-09	1.99E-10	6.80E-10	8.18E-13	8.80E-10
3905	421267.9	3734933	2.37E-09	1.09E-08	2.37E-11	1.33E-08	3.26E-10	1.48E-09	3.53E-12	1.81E-09	2.00E-10	6.82E-10	8.21E-13	8.83E-10
3906	421264	3734942	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.82E-09	2.00E-10	6.83E-10	8.22E-13	8.84E-10
3907	421260	3734952	2.38E-09	1.09E-08	2.37E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.81E-09	2.00E-10	6.83E-10	8.21E-13	8.83E-10
3908	421256.1	3734961	2.37E-09	1.09E-08	2.37E-11	1.33E-08	3.25E-10	1.48E-09	3.53E-12	1.81E-09	2.00E-10	6.82E-10	8.20E-13	8.83E-10
3909	421252.2	3734970	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	3.53E-12	1.81E-09	2.00E-10	6.81E-10	8.20E-13	8.82E-10
3910	421248.3	3734979	2.37E-09	1.09E-08	2.37E-11	1.33E-08	3.25E-10	1.48E-09	3.53E-12	1.81E-09	2.00E-10	6.82E-10	8.20E-13	8.83E-10
3911	421244.3	3734988	2.37E-09	1.09E-08	2.37E-11	1.33E-08	3.26E-10	1.48E-09	3.53E-12	1.81E-09	2.00E-10	6.82E-10	8.21E-13	8.83E-10
3912	421240.4	3734997	2.37E-09	1.09E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	3.53E-12	1.81E-09	2.00E-10	6.82E-10	8.20E-13	8.82E-10
3913	421236.5	3735006	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	3.52E-12	1.81E-09	1.99E-10	6.80E-10	8.18E-13	8.80E-10
3914	421232.6	3735015	2.36E-09	1.08E-08	2.36E-11	1.32E-08	3.23E-10	1.47E-09	3.51E-12	1.80E-09	1.98E-10	6.78E-10	8.15E-13	8.77E-10
3915	421228.7	3735024	2.35E-09	1.07E-08	2.35E-11	1.31E-08	3.22E-10	1.47E-09	3.50E-12	1.79E-09	1.98E-10	6.75E-10	8.12E-13	8.73E-10
3916	421215.7	3735037	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.82E-09	2.00E-10	6.84E-10	8.23E-13	8.85E-10
3917	421206.6	3735041	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.31E-10	1.51E-09	3.60E-12	1.85E-09	2.03E-10	6.95E-10	8.35E-13	8.99E-10
3918	421197.5	3735044	2.45E-09	1.12E-08	2.45E-11	1.37E-08	3.36E-10	1.53E-09	3.65E-12	1.87E-09	2.06E-10	7.04E-10	8.47E-13	9.11E-10
3919	421188.4	3735048	2.48E-09	1.13E-08	2.48E-11	1.39E-08	3.40E-10	1.55E-09	3.69E-12	1.90E-09	2.09E-10	7.13E-10	8.57E-13	9.23E-10
3920	421179.3	3735052	2.51E-09	1.15E-08	2.51E-11	1.40E-08	3.44E-10	1.57E-09	3.73E-12	1.92E-09	2.11E-10	7.21E-10	8.67E-13	9.33E-10
3921	421170.2	3735056	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	3.77E-12	1.94E-09	2.13E-10	7.28E-10	8.76E-13	9.42E-10
3922	421088.4	3735090	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.96E-09	2.15E-10	7.36E-10	8.85E-13	9.52E-10
3923	421079.3	3735094	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.48E-10	1.59E-09	3.78E-12	1.94E-09	2.14E-10	7.30E-10	8.77E-13	9.44E-10
3924	421070.2	3735098	2.52E-09	1.15E-08	2.52E-11	1.40E-08	3.45E-10	1.57E-09	3.75E-12	1.92E-09	2.12E-10	7.23E-10	8.70E-13	9.36E-10
3925	421061.1	3735102	2.49E-09	1.14E-08	2.49E-11	1.39E-08	3.41E-10	1.56E-09	3.71E-12	1.90E-09	2.09E-10	7.15E-10	8.60E-13	9.26E-10
3926	421052	3735105	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	3.66E-12	1.88E-09	2.07E-10	7.06E-10	8.49E-13	9.14E-10
3927	421042.9	3735109	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.32E-10	1.51E-09	3.60E-12	1.85E-09	2.04E-10	6.96E-10	8.37E-13	9.00E-10
3928	421033.8	3735113	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.82E-09	2.00E-10	6.84E-10	8.23E-13	8.85E-10
3929	421024.8	3735117	2.34E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.48E-12	1.78E-09	1.96E-10	6.71E-10	8.07E-13	8.68E-10
3930	421015.7	3735121	2.28E-09	1.04E-08	2.28E-11	1.27E-08	3.13E-10	1.43E-09	3.40E-12	1.74E-09	1.92E-10	6.56E-10	7.89E-13	8.49E-10
3931	421006.6	3735124	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.04E-10	1.39E-09	3.31E-12	1.70E-09	1.87E-10	6.38E-10	7.67E-13	8.26E-10
3932	420997.5	3735128	2.16E-09	9.85E-09	2.15E-11	1.20E-08	2.95E-10	1.35E-09	3.21E-12	1.65E-09	1.81E-10	6.19E-10	7.45E-13	8.01E-10
3933	420988.4	3735132	2.09E-09	9.54E-09	2.09E-11	1.16E-08	2.86E-10	1.30E-09	3.11E-12	1.59E-09	1.76E-10	5.99E-10	7.21E-13	7.76E-10
3934	420979.3	3735136	2.02E-09	9.22E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	3.00E-12	1.54E-09	1.70E-10	5.80E-10	6.97E-13	7.50E-10
3935	420970.2	3735140	1.95E-09	8.90E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	2.90E-12	1.49E-09	1.64E-10	5.59E-10	6.73E-13	7.24E-10
3936	420961.1	3735143	1.88E-09	8.58E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	2.79E-12	1.43E-09	1.58E-10	5.39E-10	6.48E-13	6.97E-10
3937	420952	3735147	1.80E-09	8.24E-09	1.80E-11	1.01E-08	2.47E-10	1.13E-09	2.68E-12	1.38E-09	1.52E-10	5.18E-10	6.23E-13	6.70E-10
3938	420942.9	3735151	1.73E-09	7.90E-09	1.73E-11	9.64E-09	2.37E-10	1.08E-09	2.57E-12	1.32E-09	1.45E-10	4.96E-10	5.97E-13	6.42E-10

3939	420933.9	3735155	1.65E-09	7.54E-09	1.65E-11	9.21E-09	2.26E-10	1.03E-09	2.46E-12	1.26E-09	1.39E-10	4.74E-10	5.70E-13	6.13E-10
3940	420924.8	3735159	1.57E-09	7.18E-09	1.57E-11	8.76E-09	2.15E-10	9.82E-10	2.34E-12	1.20E-09	1.32E-10	4.51E-10	5.43E-13	5.84E-10
3941	420915.7	3735162	1.49E-09	6.82E-09	1.49E-11	8.32E-09	2.04E-10	9.32E-10	2.22E-12	1.14E-09	1.25E-10	4.28E-10	5.15E-13	5.54E-10
3942	420906.6	3735166	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	2.10E-12	1.08E-09	1.19E-10	4.06E-10	4.88E-13	5.26E-10
3943	420897.5	3735170	1.34E-09	6.11E-09	1.34E-11	7.46E-09	1.83E-10	8.35E-10	1.99E-12	1.02E-09	1.12E-10	3.84E-10	4.62E-13	4.97E-10
3944	420888.4	3735174	1.25E-09	5.74E-09	1.25E-11	7.01E-09	1.72E-10	7.85E-10	1.87E-12	9.58E-10	1.06E-10	3.61E-10	4.34E-13	4.67E-10
3945	420833.9	3735197	8.48E-10	3.88E-09	8.48E-12	4.74E-09	1.16E-10	5.30E-10	1.26E-12	6.48E-10	7.14E-11	2.44E-10	2.93E-13	3.15E-10
3946	420824.8	3735201	7.93E-10	3.63E-09	7.93E-12	4.43E-09	1.09E-10	4.96E-10	1.18E-12	6.06E-10	6.67E-11	2.28E-10	2.74E-13	2.95E-10
3947	420815.7	3735204	7.41E-10	3.39E-09	7.40E-12	4.14E-09	1.02E-10	4.63E-10	1.10E-12	5.66E-10	6.23E-11	2.13E-10	2.56E-13	2.75E-10
3948	420806.6	3735208	6.92E-10	3.17E-09	6.92E-12	3.87E-09	9.49E-11	4.33E-10	1.03E-12	5.29E-10	5.83E-11	1.99E-10	2.39E-13	2.57E-10
3949	420797.5	3735212	6.48E-10	2.96E-09	6.48E-12	3.62E-09	8.89E-11	4.05E-10	9.65E-13	4.95E-10	5.45E-11	1.86E-10	2.24E-13	2.41E-10
3950	420788.4	3735216	6.07E-10	2.77E-09	6.07E-12	3.39E-09	8.32E-11	3.79E-10	9.03E-13	4.63E-10	5.11E-11	1.74E-10	2.10E-13	2.26E-10
3951	420779.3	3735220	5.69E-10	2.60E-09	5.68E-12	3.17E-09	7.79E-11	3.55E-10	8.46E-13	4.34E-10	4.78E-11	1.63E-10	1.96E-13	2.11E-10
3952	420770.2	3735223	5.34E-10	2.44E-09	5.33E-12	2.98E-09	7.31E-11	3.34E-10	7.94E-13	4.08E-10	4.49E-11	1.53E-10	1.84E-13	1.98E-10
3953	420761.1	3735227	5.01E-10	2.29E-09	5.01E-12	2.80E-09	6.87E-11	3.13E-10	7.46E-13	3.83E-10	4.21E-11	1.44E-10	1.73E-13	1.86E-10
3954	420752	3735231	4.70E-10	2.15E-09	4.70E-12	2.62E-09	6.44E-11	2.94E-10	7.00E-13	3.59E-10	3.95E-11	1.35E-10	1.62E-13	1.75E-10
3955	421433.1	3734534	7.14E-10	3.26E-09	7.13E-12	3.98E-09	9.79E-11	4.46E-10	1.06E-12	5.45E-10	6.01E-11	2.05E-10	2.47E-13	2.65E-10
3956	421433.3	3734524	6.84E-10	3.13E-09	6.84E-12	3.82E-09	9.37E-11	4.28E-10	1.02E-12	5.22E-10	5.75E-11	1.97E-10	2.36E-13	2.54E-10
3957	420743.3	3734468	3.20E-07	1.46E-06	3.20E-09	1.79E-06	4.38E-08	2.00E-07	4.76E-10	2.44E-07	2.69E-08	9.19E-08	1.11E-10	1.19E-07
3958	420743.3	3734459	2.69E-07	1.23E-06	2.69E-09	1.50E-06	3.69E-08	1.68E-07	4.01E-10	2.06E-07	2.27E-08	7.74E-08	9.31E-11	1.00E-07
3959	420743.2	3734449	2.07E-07	9.45E-07	2.07E-09	1.15E-06	2.83E-08	1.29E-07	3.08E-10	1.58E-07	1.74E-08	5.94E-08	7.14E-11	7.69E-08
3960	420743.1	3734440	1.43E-07	6.52E-07	1.43E-09	7.96E-07	1.95E-08	8.92E-08	2.12E-10	1.09E-07	1.20E-08	4.10E-08	4.93E-11	5.30E-08
3961	420743.1	3734431	8.97E-08	4.10E-07	8.96E-10	5.01E-07	1.23E-08	5.61E-08	1.34E-10	6.85E-08	7.55E-09	2.58E-08	3.10E-11	3.33E-08
3962	420743	3734421	5.66E-08	2.59E-07	5.65E-10	3.16E-07	7.76E-09	3.54E-08	8.42E-11	4.32E-08	4.76E-09	1.63E-08	1.96E-11	2.10E-08
3963	420742.9	3734412	3.81E-08	1.74E-07	3.81E-10	2.13E-07	5.22E-09	2.38E-08	5.67E-11	2.91E-08	3.20E-09	1.09E-08	1.32E-11	1.42E-08
3964	420742.9	3734403	2.72E-08	1.24E-07	2.72E-10	1.52E-07	3.73E-09	1.70E-08	4.05E-11	2.08E-08	2.29E-09	7.82E-09	9.40E-12	1.01E-08
3965	420753.3	3734468	2.17E-07	9.94E-07	2.17E-09	1.21E-06	2.98E-08	1.36E-07	3.24E-10	1.66E-07	1.83E-08	6.25E-08	7.51E-11	8.08E-08
3966	420753.3	3734458	1.80E-07	8.24E-07	1.80E-09	1.01E-06	2.47E-08	1.13E-07	2.68E-10	1.38E-07	1.52E-08	5.18E-08	6.23E-11	6.70E-08
3967	420753.2	3734449	1.39E-07	6.36E-07	1.39E-09	7.76E-07	1.91E-08	8.70E-08	2.07E-10	1.06E-07	1.17E-08	4.00E-08	4.81E-11	5.17E-08
3968	420753.1	3734440	9.97E-08	4.56E-07	9.96E-10	5.56E-07	1.37E-08	6.23E-08	1.48E-10	7.61E-08	8.39E-09	2.86E-08	3.44E-11	3.71E-08
3969	420753.1	3734431	6.76E-08	3.09E-07	6.76E-10	3.77E-07	9.27E-09	4.23E-08	1.01E-10	5.16E-08	5.69E-09	1.94E-08	2.34E-11	2.51E-08
3970	420753	3734421	4.59E-08	2.10E-07	4.59E-10	2.56E-07	6.29E-09	2.87E-08	6.83E-11	3.50E-08	3.86E-09	1.32E-08	1.59E-11	1.71E-08
3971	420752.9	3734412	3.24E-08	1.48E-07	3.23E-10	1.81E-07	4.44E-09	2.02E-08	4.82E-11	2.47E-08	2.72E-09	9.30E-09	1.12E-11	1.20E-08
3972	420752.9	3734403	2.39E-08	1.09E-07	2.39E-10	1.34E-07	3.28E-09	1.50E-08	3.56E-11	1.83E-08	2.01E-09	6.87E-09	8.27E-12	8.89E-09
3973	420752.8	3734394	1.82E-08	8.34E-08	1.82E-10	1.02E-07	2.50E-09	1.14E-08	2.72E-11	1.39E-08	1.53E-09	5.24E-09	6.30E-12	6.78E-09
3974	420763.1	3734440	7.34E-08	3.36E-07	7.34E-10	4.10E-07	1.01E-08	4.59E-08	1.09E-10	5.61E-08	6.17E-09	2.11E-08	2.54E-11	2.73E-08
3975	420763.1	3734431	5.25E-08	2.40E-07	5.25E-10	2.93E-07	7.20E-09	3.29E-08	7.82E-11	4.01E-08	4.42E-09	1.51E-08	1.82E-11	1.95E-08
3976	420763	3734421	3.76E-08	1.72E-07	3.76E-10	2.10E-07	5.16E-09	2.35E-08	5.60E-11	2.87E-08	3.17E-09	1.08E-08	1.30E-11	1.40E-08
3977	420762.9	3734412	2.76E-08	1.26E-07	2.76E-10	1.54E-07	3.78E-09	1.73E-08	4.11E-11	2.11E-08	2.32E-09	7.93E-09	9.53E-12	1.03E-08
3978	420762.9	3734403	2.10E-08	9.59E-08	2.10E-10	1.17E-07	2.88E-09	1.31E-08	3.12E-11	1.60E-08	1.76E-09	6.03E-09	7.25E-12	7.80E-09
3979	420762.8	3734393	1.64E-08	7.50E-08	1.64E-10	9.16E-08	2.25E-09	1.03E-08	2.44E-11	1.25E-08	1.38E-09	4.71E-09	5.67E-12	6.10E-09
3980	420772.8	3734393	1.47E-08	6.71E-08	1.47E-10	8.20E-08	2.01E-09	9.18E-09	2.19E-11	1.12E-08	1.24E-09	4.22E-09	5.08E-12	5.46E-09
3981	420793.5	3734495	9.73E-08	4.45E-07	9.72E-10	5.43E-07	1.33E-08	6.08E-08	1.45E-10	7.43E-08	8.18E-09	2.80E-08	3.36E-11	3.62E-08
3982	420793.5	3734486	8.66E-08	3.96E-07	8.66E-10	4.84E-07	1.19E-08	5.42E-08	1.29E-10	6.62E-08	7.29E-09	2.49E-08	2.99E-11	3.22E-08
3983	420803.5	3734495	7.68E-08	3.51E-07	7.67E-10	4.29E-07	1.05E-08	4.80E-08	1.14E-10	5.86E-08	6.46E-09	2.21E-08	2.65E-11	2.86E-08
3984	420803.5	3734486	6.81E-08	3.11E-07	6.80E-10	3.80E-07	9.33E-09	4.26E-08	1.01E-10	5.20E-08	5.73E-09	1.96E-08	2.35E-11	2.53E-08
3985	420803.4	3734477	5.98E-08	2.74E-07	5.98E-10	3.34E-07	8.20E-09	3.74E-08	8.90E-11	4.57E-08	5.03E-09	1.72E-08	2.07E-11	2.22E-08
3986	420803.3	3734467	5.13E-08	2.34E-07	5.12E-10	2.86E-07	7.03E-09	3.21E-08	7.63E-11	3.92E-08	4.31E-09	1.47E-08	1.77E-11	1.91E-08
3987	420803.3	3734458	4.31E-08	1.97E-07	4.31E-10	2.41E-07	5.91E-09	2.69E-08	6.42E-11	3.29E-08	3.63E-09	1.24E-08	1.49E-11	1.60E-08
3988	420803.2	3734449	3.56E-08	1.63E-07	3.56E-10	1.99E-07	4.88E-09	2.23E-08	5.30E-11	2.72E-08	2.99E-09	1.02E-08	1.23E-11	1.32E-08
3989	420803.1	3734440	2.90E-08	1.32E-07	2.89E-10	1.62E-07	3.97E-09	1.81E-08	4.31E-11	2.21E-08	2.44E-09	8.32E-09	1.00E-11	1.08E-08
3990	420803.1	3734430	2.34E-08	1.07E-07	2.33E-10	1.30E-07	3.20E-09	1.46E-08	3.48E-11	1.78E-08	1.96E-09	6.71E-09	8.07E-12	8.68E-09
3991	420803	3734421	1.88E-08	8.61E-08	1.88E-10	1.05E-07	2.58E-09	1.18E-08	2.80E-11	1.44E-08	1.58E-09	5.41E-09	6.50E-12	7.00E-09
3992	420802.9	3734412	1.53E-08	7.00E-08	1.53E-10	8.54E-08	2.10E-09	9.57E-09	2.28E-11	1.17E-08	1.29E-09	4.40E-09	5.29E-12	5.69E-09
3993	420813.5	3734495	6.14E-08	2.80E-07	6.13E-10	3.42E-07	8.41E-09	3.84E-08	9.13E-11	4.69E-08	5.16E-09	1.76E-08	2.12E-11	2.28E-08
3994	420813.5	3734486	5.45E-08	2.49E-07	5.44E-10	3.04E-07	7.47E-09	3.40E-08	8.11E-11	4.16E-08	4.58E-09	1.56E-08	1.88E-11	2.02E-08
3995	420813.4	3734477	4.81E-08	2.20E-07	4.80E-10	2.68E-07	6.59E-09	3.01E-08	7.16E-11	3.67E-08	4.04E-09	1.38E-08	1.66E-11	1.79E-08
3996	420813.3	3734467	4.15E-08	1.90E-07	4.15E-10	2.32E-07	5.69E-09	2.60E-08	6.18E-11	3.17E-08	3.49E-09	1.19E-08	1.43E-11	1.54E-08
3997	420813.3	3734458	3.51E-08	1.61E-07	3.51E-10	1.96E-07	4.82E-09	2.20E-08	5.23E-11	2.68E-08	2.96E-09	1.01E-08	1.21E-11	1.31E-08
3998	420813.2	3734449	2.93E-08	1.34E-07	2.93E-10	1.64E-07	4.02E-09	1.83E-08	4.37E-11	2.24E-08	2.47E-09	8.43E-09	1.01E-11	1.09E-08
3999	420813.1	3734439	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.51E-08	3.60E-11	1.85E-08	2.04E-09	6.96E-09	8.36E-12	9.00E-09
4000	420813.1	3734430	1.98E-08	9.07E-08	1.98E-10	1.11E-07	2.72E-09	1.24E-08	2.95E-11	1.52E-08	1.67E-09	5.70E-09	6.86E-12	7.38E-09
4001	420813	3734421	1.63E-08	7.44E-08	1.63E-10	9.09E-08	2.23E-09	1.02E-08	2.42E-11	1.24E-08	1.37E-09	4.68E-09	5.62E-12	6.05E-09
4002	420812.9	3734412	1.34E-08	6.15E-08	1.34E-10	7.50E-08	1.84E-09	8.40E-09	2.00E-11	1.03E-08	1.13E-09	3.86E-09	4.65E-12	5.00E-09
4003	420812.9	3734402	1.12E-08	5.14E-08	1.12E-10	6.27E-08	1.54E-09	7.02E-09	1.67E-11	8.58E-09	9.45E-10	3.23E-09	3.88E-12	4.18E-09
4004	420823.5	3734495	5.02E-08	2.29E-07	5.02E-10	2.80E-07	6.88E-09	3.14E-08	7.47E-11	3.83E-08	4.22E-09	1.44E-08	1.73E-11	1.87E-08
4005	420823.5	3734486	4.45E-08	2.04E-07	4.45E-10	2.49E-07	6.11E-09	2.78E-08	6.63E-11	3.40E-08	3.75E-09	1.28E-08	1.54E-11	1.66E-08
4006	420823.4	3734477	3.92E-08	1.79E-07	3.92E-10	2.19E-07	5.38E-09	2.45E-08	5.84E-11	3.00E-08	3.30E-09	1.13E-08	1.36E-11	1.46E-08
4007	420823.3	3734467	3.41E-08	1.56E-07	3.41E-10	1.90E-07	4.67E-09	2.13E-08	5.08E-11	2.60E-08	2.87E-09	9.80E-09	1.18E-11	1.27E-08
4008	420823.3	3734458	2.92E-08	1.33E-07	2.91E-10	1.63E-07	4.00E-09	1.82E-08	4.34E-11	2.23E-08	2.45E-09	8.38E-09	1.01E-11	1.08E-08
4009	420823.2	3734449	2.46E-08	1.12E-07	2.45E-10	1.37E-07	3.37E-09	1.53E-08	3.65E-11	1.88E-08	2.07E-09	7.05E-09	8.48E-12	9.13E-09
4010	420823.1	3734439	2.05E-08	9.38E-08	2.05E-10	1.15E-07	2.81E-09	1.28E-08	3.06E-11	1.57E-08	1.73E-09	5.90E-09	7.09E-12	7.63E-09
4011	420823.1	3734430	1.71E-08	7.80E-08	1.71E-10	9.53E-08	2.34E-09	1.07E-08	2.54E-11	1.30E-08	1.44E-09	4.90E-09	5.90E-12	6.35E-09

4012	420823	3734421	1.42E-08	6.49E-08	1.42E-10	7.93E-08	1.95E-09	8.88E-09	2.11E-11	1.08E-08	1.19E-09	4.08E-09	4.91E-12	5.28E-09
4013	420822.9	3734412	1.19E-08	5.43E-08	1.19E-10	6.63E-08	1.63E-09	7.43E-09	1.77E-11	9.08E-09	1.00E-09	3.41E-09	4.11E-12	4.42E-09
4014	420822.9	3734402	1.00E-08	4.59E-08	1.00E-10	5.61E-08	1.38E-09	6.28E-09	1.50E-11	7.67E-09	8.45E-10	2.89E-09	3.47E-12	3.74E-09
4015	420833.5	3734495	4.16E-08	1.90E-07	4.16E-10	2.32E-07	5.70E-09	2.60E-08	6.19E-11	3.18E-08	3.50E-09	1.20E-08	1.44E-11	1.55E-08
4016	420833.5	3734486	3.69E-08	1.69E-07	3.69E-10	2.06E-07	5.06E-09	2.31E-08	5.50E-11	2.82E-08	3.11E-09	1.06E-08	1.28E-11	1.37E-08
4017	420833.4	3734476	3.25E-08	1.49E-07	3.25E-10	1.81E-07	4.46E-09	2.03E-08	4.84E-11	2.48E-08	2.74E-09	9.34E-09	1.12E-11	1.21E-08
4018	420833.3	3734467	2.83E-08	1.29E-07	2.82E-10	1.58E-07	3.87E-09	1.77E-08	4.21E-11	2.16E-08	2.38E-09	8.12E-09	9.76E-12	1.05E-08
4019	420833.3	3734458	2.44E-08	1.12E-07	2.44E-10	1.36E-07	3.34E-09	1.52E-08	3.63E-11	1.86E-08	2.05E-09	7.01E-09	8.43E-12	9.07E-09
4020	420833.2	3734449	2.08E-08	9.53E-08	2.08E-10	1.16E-07	2.86E-09	1.30E-08	3.10E-11	1.59E-08	1.75E-09	5.99E-09	7.20E-12	7.75E-09
4021	420833.1	3734439	1.76E-08	8.05E-08	1.76E-10	9.83E-08	2.41E-09	1.10E-08	2.62E-11	1.35E-08	1.48E-09	5.06E-09	6.09E-12	6.55E-09
4022	420833.1	3734430	1.48E-08	6.78E-08	1.48E-10	8.28E-08	2.03E-09	9.27E-09	2.21E-11	1.13E-08	1.25E-09	4.26E-09	5.12E-12	5.51E-09
4023	420833	3734421	1.25E-08	5.71E-08	1.25E-10	6.97E-08	1.71E-09	7.80E-09	1.86E-11	9.53E-09	1.05E-09	3.59E-09	4.31E-12	4.64E-09
4024	420832.9	3734412	1.06E-08	4.83E-08	1.06E-10	5.90E-08	1.45E-09	6.60E-09	1.57E-11	8.07E-09	8.89E-10	3.04E-09	3.65E-12	3.93E-09
4025	420893.5	3734495	1.69E-08	7.72E-08	1.69E-10	9.43E-08	2.32E-09	1.06E-08	2.51E-11	1.29E-08	1.42E-09	4.85E-09	5.84E-12	6.28E-09
4026	420893.5	3734485	1.53E-08	6.99E-08	1.53E-10	8.53E-08	2.09E-09	9.55E-09	2.27E-11	1.17E-08	1.29E-09	4.39E-09	5.28E-12	5.68E-09
4027	420893.4	3734476	1.37E-08	6.26E-08	1.37E-10	7.65E-08	1.88E-09	8.56E-09	2.04E-11	1.05E-08	1.15E-09	3.94E-09	4.73E-12	5.09E-09
4028	420893.3	3734467	1.22E-08	5.58E-08	1.22E-10	6.81E-08	1.67E-09	7.63E-09	1.82E-11	9.32E-09	1.03E-09	3.51E-09	4.22E-12	4.54E-09
4029	420893.1	3734439	8.38E-09	3.83E-08	8.38E-11	4.68E-08	1.15E-09	5.24E-09	1.25E-11	6.40E-09	7.05E-10	2.41E-09	2.90E-12	3.12E-09
4030	420893.1	3734430	7.38E-09	3.37E-08	7.37E-11	4.12E-08	1.01E-09	4.61E-09	1.10E-11	5.63E-09	6.21E-10	2.12E-09	2.55E-12	2.74E-09
4031	420893	3734420	6.51E-09	2.98E-08	6.51E-11	3.63E-08	8.93E-10	4.07E-09	9.69E-12	4.97E-09	5.48E-10	1.87E-09	2.25E-12	2.42E-09
4032	420892.9	3734411	5.77E-09	2.64E-08	5.77E-11	3.22E-08	7.91E-10	3.61E-09	8.59E-12	4.41E-09	4.85E-10	1.66E-09	1.99E-12	2.15E-09
4033	420892.9	3734402	5.14E-09	2.35E-08	5.13E-11	2.87E-08	7.04E-10	3.21E-09	7.65E-12	3.92E-09	4.32E-10	1.48E-09	1.78E-12	1.91E-09
4034	420892.8	3734393	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	6.85E-12	3.51E-09	3.87E-10	1.32E-09	1.59E-12	1.71E-09
4035	420913.5	3734494	1.32E-08	6.03E-08	1.32E-10	7.36E-08	1.81E-09	8.25E-09	1.96E-11	1.01E-08	1.11E-09	3.79E-09	4.56E-12	4.91E-09
4036	420913.5	3734485	1.20E-08	5.48E-08	1.20E-10	6.69E-08	1.64E-09	7.50E-09	1.78E-11	9.16E-09	1.01E-09	3.45E-09	4.14E-12	4.46E-09
4037	420913.4	3734476	1.08E-08	4.94E-08	1.08E-10	6.04E-08	1.48E-09	6.76E-09	1.61E-11	8.26E-09	9.10E-10	3.11E-09	3.74E-12	4.02E-09
4038	420913.3	3734467	9.70E-09	4.44E-08	9.70E-11	5.42E-08	1.33E-09	6.07E-09	1.44E-11	7.41E-09	8.16E-10	2.79E-09	3.35E-12	3.61E-09
4039	420913.1	3734439	6.85E-09	3.13E-08	6.85E-11	3.82E-08	9.39E-10	4.28E-09	1.02E-11	5.23E-09	5.76E-10	1.97E-09	2.37E-12	2.55E-09
4040	420913.1	3734430	6.09E-09	2.79E-08	6.09E-11	3.40E-08	8.35E-10	3.81E-09	9.07E-12	4.65E-09	5.12E-10	1.75E-09	2.10E-12	2.26E-09
4041	420913	3734420	5.43E-09	2.48E-08	5.43E-11	3.03E-08	7.45E-10	3.40E-09	8.09E-12	4.15E-09	4.57E-10	1.56E-09	1.88E-12	2.02E-09
4042	420912.9	3734411	4.86E-09	2.22E-08	4.86E-11	2.71E-08	6.66E-10	3.04E-09	7.23E-12	3.71E-09	4.09E-10	1.40E-09	1.68E-12	1.81E-09
4043	420912.9	3734402	4.36E-09	2.00E-08	4.36E-11	2.44E-08	5.98E-10	2.73E-09	6.50E-12	3.33E-09	3.67E-10	1.25E-09	1.51E-12	1.62E-09
4044	420912.8	3734392	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	5.86E-12	3.01E-09	3.31E-10	1.13E-09	1.36E-12	1.46E-09
4045	420933.5	3734494	1.05E-08	4.81E-08	1.05E-10	5.88E-08	1.44E-09	6.58E-09	1.57E-11	8.04E-09	8.85E-10	3.02E-09	3.64E-12	3.91E-09
4046	420933.5	3734485	9.60E-09	4.39E-08	9.59E-11	5.36E-08	1.32E-09	6.00E-09	1.43E-11	7.33E-09	8.07E-10	2.76E-09	3.32E-12	3.57E-09
4047	420933.4	3734476	8.71E-09	3.98E-08	8.70E-11	4.86E-08	1.19E-09	5.44E-09	1.30E-11	6.65E-09	7.32E-10	2.50E-09	3.01E-12	3.24E-09
4048	420933.3	3734466	7.86E-09	3.59E-08	7.85E-11	4.39E-08	1.08E-09	4.91E-09	1.17E-11	6.00E-09	6.61E-10	2.26E-09	2.72E-12	2.92E-09
4049	420933.1	3734439	5.69E-09	2.60E-08	5.69E-11	3.18E-08	7.80E-10	3.56E-09	8.47E-12	4.35E-09	4.79E-10	1.64E-09	1.97E-12	2.12E-09
4050	420933.1	3734429	5.10E-09	2.33E-08	5.10E-11	2.85E-08	7.00E-10	3.19E-09	7.60E-12	3.90E-09	4.29E-10	1.47E-09	1.76E-12	1.90E-09
4051	420933	3734420	4.59E-09	2.10E-08	4.59E-11	2.56E-08	6.29E-10	2.87E-09	6.83E-12	3.50E-09	3.86E-10	1.32E-09	1.59E-12	1.71E-09
4052	420932.9	3734411	4.14E-09	1.89E-08	4.13E-11	2.31E-08	5.67E-10	2.59E-09	6.16E-12	3.16E-09	3.48E-10	1.19E-09	1.43E-12	1.54E-09
4053	420932.9	3734402	3.74E-09	1.71E-08	3.74E-11	2.09E-08	5.13E-10	2.34E-09	5.57E-12	2.86E-09	3.15E-10	1.08E-09	1.29E-12	1.39E-09
4054	420932.8	3734392	3.40E-09	1.55E-08	3.40E-11	1.90E-08	4.66E-10	2.13E-09	5.06E-12	2.60E-09	2.86E-10	9.77E-10	1.17E-12	1.26E-09
4055	420953.5	3734494	8.56E-09	3.91E-08	8.55E-11	4.78E-08	1.17E-09	5.35E-09	1.27E-11	6.54E-09	7.20E-10	2.46E-09	2.96E-12	3.18E-09
4056	420953.5	3734485	7.84E-09	3.58E-08	7.83E-11	4.37E-08	1.07E-09	4.90E-09	1.17E-11	5.99E-09	6.59E-10	2.25E-09	2.71E-12	2.91E-09
4057	420953.4	3734476	7.14E-09	3.27E-08	7.14E-11	3.99E-08	9.79E-10	4.47E-09	1.06E-11	5.46E-09	6.01E-10	2.05E-09	2.47E-12	2.66E-09
4058	420953.3	3734466	6.49E-09	2.97E-08	6.48E-11	3.62E-08	8.89E-10	4.06E-09	9.66E-12	4.95E-09	5.46E-10	1.86E-09	2.24E-12	2.41E-09
4059	420953.1	3734438	4.79E-09	2.19E-08	4.79E-11	2.68E-08	6.57E-10	3.00E-09	7.13E-12	3.66E-09	4.03E-10	1.38E-09	1.66E-12	1.78E-09
4060	420953.1	3734429	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	6.44E-12	3.31E-09	3.64E-10	1.24E-09	1.50E-12	1.61E-09
4061	420953	3734420	3.92E-09	1.79E-08	3.92E-11	2.19E-08	5.37E-10	2.45E-09	5.83E-12	2.99E-09	3.30E-10	1.13E-09	1.35E-12	1.46E-09
4062	420952.9	3734411	3.55E-09	1.62E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	5.29E-12	2.71E-09	2.99E-10	1.02E-09	1.23E-12	1.32E-09
4063	420952.9	3734401	3.23E-09	1.48E-08	3.23E-11	1.80E-08	4.43E-10	2.02E-09	4.81E-12	2.47E-09	2.72E-10	9.29E-10	1.12E-12	1.20E-09
4064	420952.8	3734392	2.95E-09	1.35E-08	2.95E-11	1.65E-08	4.05E-10	1.85E-09	4.40E-12	2.26E-09	2.49E-10	8.49E-10	1.02E-12	1.10E-09
4065	420973.5	3734494	7.07E-09	3.23E-08	7.06E-11	3.94E-08	9.69E-10	4.42E-09	1.05E-11	5.40E-09	5.95E-10	2.03E-09	2.44E-12	2.63E-09
4066	420973.5	3734485	6.50E-09	2.97E-08	6.49E-11	3.63E-08	8.90E-10	4.06E-09	9.67E-12	4.96E-09	5.47E-10	1.87E-09	2.24E-12	2.42E-09
4067	420973.4	3734475	5.95E-09	2.72E-08	5.95E-11	3.32E-08	8.15E-10	3.72E-09	8.86E-12	4.54E-09	5.00E-10	1.71E-09	2.06E-12	2.21E-09
4068	420973.3	3734466	5.43E-09	2.48E-08	5.43E-11	3.03E-08	7.44E-10	3.39E-09	8.08E-12	4.15E-09	4.57E-10	1.56E-09	1.88E-12	2.02E-09
4069	420973.1	3734438	4.08E-09	1.87E-08	4.08E-11	2.28E-08	5.60E-10	2.55E-09	6.08E-12	3.12E-09	3.44E-10	1.17E-09	1.41E-12	1.52E-09
4070	420973.1	3734429	3.71E-09	1.70E-08	3.71E-11	2.07E-08	5.09E-10	2.32E-09	5.53E-12	2.84E-09	3.12E-10	1.07E-09	1.28E-12	1.38E-09
4071	420973	3734420	3.38E-09	1.55E-08	3.38E-11	1.89E-08	4.63E-10	2.11E-09	5.03E-12	2.58E-09	2.84E-10	9.71E-10	1.17E-12	1.26E-09
4072	420972.9	3734411	3.08E-09	1.41E-08	3.08E-11	1.72E-08	4.22E-10	1.93E-09	4.59E-12	2.35E-09	2.59E-10	8.85E-10	1.06E-12	1.15E-09
4073	420972.9	3734401	2.82E-09	1.29E-08	2.82E-11	1.57E-08	3.86E-10	1.76E-09	4.20E-12	2.15E-09	2.37E-10	8.10E-10	9.74E-13	1.05E-09
4074	420972.8	3734392	2.59E-09	1.18E-08	2.59E-11	1.45E-08	3.55E-10	1.62E-09	3.86E-12	1.98E-09	2.18E-10	7.44E-10	8.95E-13	9.63E-10
4075	420993.6	3734503	6.39E-09	2.92E-08	6.38E-11	3.56E-08	8.75E-10	3.99E-09	9.50E-12	4.88E-09	5.37E-10	1.83E-09	2.21E-12	2.37E-09
4076	420993.5	3734494	5.91E-09	2.70E-08	5.91E-11	3.30E-08	8.11E-10	3.70E-09	8.80E-12	4.52E-09	4.98E-10	1.70E-09	2.04E-12	2.20E-09
4077	420993.5	3734485	5.46E-09	2.49E-08	5.45E-11	3.05E-08	7.48E-10	3.41E-09	8.12E-12	4.17E-09	4.59E-10	1.57E-09	1.89E-12	2.03E-09
4078	420993.4	3734475	5.02E-09	2.29E-08	5.01E-11	2.80E-08	6.88E-10	3.14E-09	7.47E-12	3.83E-09	4.22E-10	1.44E-09	1.73E-12	1.87E-09
4079	420993.3	3734466	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	6.85E-12	3.51E-09	3.87E-10	1.32E-09	1.59E-12	1.71E-09
4080	421013.6	3734503	5.35E-09	2.45E-08	5.35E-11	2.99E-08	7.34E-10	3.35E-09	7.97E-12	4.09E-09	4.50E-10	1.54E-09	1.85E-12	1.99E-09
4081	421013.5	3734494	4.97E-09	2.27E-08	4.97E-11	2.78E-08	6.82E-10	3.11E-09	7.40E-12	3.80E-09	4.18E-10	1.43E-09	1.72E-12	1.85E-09
4082	421013.5	3734484	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.33E-10	2.89E-09	6.88E-12	3.53E-09	3.89E-10	1.33E-09	1.60E-12	1.72E-09
4083	421013.4	3734475	4.28E-09	1.96E-08	4.28E-11	2.39E-08	5.86E-10	2.67E-09	6.37E-12	3.27E-09	3.60E-10	1.23E-09	1.48E-12	1.59E-09
4084	421013.3	3734466	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.40E-10	2.46E-09	5.87E-12	3.01E-09	3.31E-10	1.13E-09	1.36E-12	1.47E-09

4085	421013.2	3734447	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.56E-10	2.08E-09	4.95E-12	2.54E-09	2.80E-10	9.56E-10	1.15E-12	1.24E-09
4086	421013.1	3734438	3.06E-09	1.40E-08	3.05E-11	1.71E-08	4.19E-10	1.91E-09	4.55E-12	2.33E-09	2.57E-10	8.78E-10	1.06E-12	1.14E-09
4087	421013.1	3734429	2.81E-09	1.28E-08	2.80E-11	1.57E-08	3.85E-10	1.75E-09	4.18E-12	2.14E-09	2.36E-10	8.06E-10	9.70E-13	1.04E-09
4088	421013	3734420	2.58E-09	1.18E-08	2.58E-11	1.44E-08	3.54E-10	1.61E-09	3.84E-12	1.97E-09	2.17E-10	7.41E-10	8.92E-13	9.59E-10
4089	421012.9	3734410	2.38E-09	1.09E-08	2.37E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.81E-09	2.00E-10	6.83E-10	8.21E-13	8.83E-10
4090	421012.9	3734401	2.19E-09	1.00E-08	2.19E-11	1.22E-08	3.01E-10	1.37E-09	3.26E-12	1.67E-09	1.84E-10	6.30E-10	7.58E-13	8.15E-10
4091	421012.8	3734392	2.03E-09	9.29E-09	2.03E-11	1.13E-08	2.78E-10	1.27E-09	3.02E-12	1.55E-09	1.71E-10	5.84E-10	7.02E-13	7.55E-10
4092	421033.6	3734503	4.54E-09	2.08E-08	4.54E-11	2.54E-08	6.23E-10	2.84E-09	6.76E-12	3.47E-09	3.82E-10	1.31E-09	1.57E-12	1.69E-09
4093	421033.5	3734494	4.24E-09	1.94E-08	4.24E-11	2.37E-08	5.81E-10	2.65E-09	6.31E-12	3.24E-09	3.57E-10	1.22E-09	1.46E-12	1.58E-09
4094	421033.5	3734484	3.95E-09	1.80E-08	3.94E-11	2.20E-08	5.41E-10	2.47E-09	5.87E-12	3.01E-09	3.32E-10	1.13E-09	1.36E-12	1.47E-09
4095	421033.4	3734475	3.67E-09	1.68E-08	3.66E-11	2.05E-08	5.03E-10	2.29E-09	5.46E-12	2.80E-09	3.08E-10	1.05E-09	1.27E-12	1.36E-09
4096	421033.3	3734466	3.40E-09	1.56E-08	3.40E-11	1.90E-08	4.66E-10	2.13E-09	5.06E-12	2.60E-09	2.86E-10	9.78E-10	1.18E-12	1.26E-09
4097	421033.2	3734447	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	4.30E-12	2.21E-09	2.43E-10	8.31E-10	9.99E-13	1.08E-09
4098	421033.1	3734438	2.66E-09	1.22E-08	2.66E-11	1.48E-08	3.64E-10	1.66E-09	3.96E-12	2.03E-09	2.24E-10	7.64E-10	9.19E-13	9.89E-10
4099	421033.1	3734429	2.45E-09	1.12E-08	2.45E-11	1.37E-08	3.35E-10	1.53E-09	3.64E-12	1.87E-09	2.06E-10	7.03E-10	8.45E-13	9.10E-10
4100	421033	3734419	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	3.36E-12	1.73E-09	1.90E-10	6.49E-10	7.81E-13	8.40E-10
4101	421032.9	3734410	2.09E-09	9.55E-09	2.09E-11	1.17E-08	2.86E-10	1.31E-09	3.11E-12	1.60E-09	1.76E-10	6.00E-10	7.22E-13	7.77E-10
4102	421032.9	3734401	1.94E-09	8.85E-09	1.93E-11	1.08E-08	2.65E-10	1.21E-09	2.88E-12	1.48E-09	1.63E-10	5.56E-10	6.69E-13	7.20E-10
4103	421032.8	3734392	1.81E-09	8.29E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	2.70E-12	1.38E-09	1.52E-10	5.21E-10	6.26E-13	6.74E-10
4104	421073.6	3734503	3.40E-09	1.56E-08	3.40E-11	1.90E-08	4.67E-10	2.13E-09	5.07E-12	2.60E-09	2.86E-10	9.78E-10	1.18E-12	1.27E-09
4105	421073.5	3734493	3.19E-09	1.46E-08	3.19E-11	1.78E-08	4.37E-10	1.99E-09	4.75E-12	2.43E-09	2.68E-10	9.16E-10	1.10E-12	1.19E-09
4106	421073.5	3734484	2.97E-09	1.36E-08	2.97E-11	1.66E-08	4.07E-10	1.86E-09	4.42E-12	2.27E-09	2.50E-10	8.53E-10	1.03E-12	1.10E-09
4107	421073.4	3734475	2.76E-09	1.26E-08	2.75E-11	1.54E-08	3.78E-10	1.72E-09	4.10E-12	2.11E-09	2.32E-10	7.92E-10	9.52E-13	1.02E-09
4108	421073.3	3734465	2.55E-09	1.17E-08	2.55E-11	1.43E-08	3.50E-10	1.60E-09	3.80E-12	1.95E-09	2.15E-10	7.34E-10	8.83E-13	9.50E-10
4109	421153.6	3734502	2.09E-09	9.53E-09	2.08E-11	1.16E-08	2.86E-10	1.30E-09	3.10E-12	1.59E-09	1.75E-10	5.99E-10	7.21E-13	7.75E-10
4110	421153.5	3734493	1.97E-09	9.02E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	2.94E-12	1.51E-09	1.66E-10	5.67E-10	6.82E-13	7.34E-10
4111	421153.5	3734483	1.85E-09	8.46E-09	1.85E-11	1.03E-08	2.54E-10	1.16E-09	2.75E-12	1.41E-09	1.56E-10	5.32E-10	6.39E-13	6.88E-10
4112	421153.4	3734474	1.73E-09	7.91E-09	1.73E-11	9.66E-09	2.37E-10	1.08E-09	2.58E-12	1.32E-09	1.46E-10	4.97E-10	5.98E-13	6.43E-10
4113	421153.3	3734465	1.62E-09	7.39E-09	1.62E-11	9.02E-09	2.22E-10	1.01E-09	2.41E-12	1.23E-09	1.36E-10	4.64E-10	5.59E-13	6.01E-10
4114	421153.2	3734446	1.43E-09	6.53E-09	1.43E-11	7.97E-09	1.96E-10	8.93E-10	2.13E-12	1.09E-09	1.20E-10	4.10E-10	4.93E-13	5.31E-10
4115	421153.1	3734437	1.35E-09	6.15E-09	1.34E-11	7.51E-09	1.84E-10	8.41E-10	2.00E-12	1.03E-09	1.13E-10	3.87E-10	4.65E-13	5.00E-10
4116	421153.1	3734428	1.27E-09	5.81E-09	1.27E-11	7.09E-09	1.74E-10	7.94E-10	1.89E-12	9.70E-10	1.07E-10	3.65E-10	4.39E-13	4.72E-10
4117	421153	3734419	1.21E-09	5.52E-09	1.21E-11	6.74E-09	1.65E-10	7.54E-10	1.80E-12	9.22E-10	1.02E-10	3.47E-10	4.17E-13	4.49E-10
4118	421152.9	3734409	1.14E-09	5.22E-09	1.14E-11	6.38E-09	1.57E-10	7.14E-10	1.70E-12	8.72E-10	9.61E-11	3.28E-10	3.95E-13	4.25E-10
4119	421152.9	3734400	1.08E-09	4.93E-09	1.08E-11	6.01E-09	1.48E-10	6.74E-10	1.60E-12	8.23E-10	9.06E-11	3.10E-10	3.72E-13	4.01E-10
4120	421152.8	3734391	1.02E-09	4.65E-09	1.02E-11	5.68E-09	1.39E-10	6.36E-10	1.51E-12	7.77E-10	8.56E-11	2.92E-10	3.51E-13	3.78E-10
4121	421193.6	3734502	1.68E-09	7.70E-09	1.68E-11	9.40E-09	2.31E-10	1.05E-09	2.51E-12	1.29E-09	1.42E-10	4.84E-10	5.82E-13	6.26E-10
4122	421193.5	3734492	1.60E-09	7.31E-09	1.60E-11	8.93E-09	2.19E-10	1.00E-09	2.38E-12	1.22E-09	1.35E-10	4.60E-10	5.53E-13	5.95E-10
4123	421193.4	3734483	1.51E-09	6.92E-09	1.51E-11	8.45E-09	2.08E-10	9.46E-10	2.25E-12	1.16E-09	1.27E-10	4.35E-10	5.23E-13	5.63E-10
4124	421193.4	3734474	1.43E-09	6.55E-09	1.43E-11	7.99E-09	1.96E-10	8.95E-10	2.13E-12	1.09E-09	1.20E-10	4.11E-10	4.95E-13	5.32E-10
4125	421193.3	3734465	1.35E-09	6.19E-09	1.35E-11	7.55E-09	1.85E-10	8.46E-10	2.01E-12	1.03E-09	1.14E-10	3.89E-10	4.67E-13	5.03E-10
4126	421193.2	3734446	1.21E-09	5.52E-09	1.21E-11	6.74E-09	1.65E-10	7.55E-10	1.80E-12	9.22E-10	1.02E-10	3.47E-10	4.17E-13	4.49E-10
4127	421193.1	3734437	1.14E-09	5.22E-09	1.14E-11	6.37E-09	1.56E-10	7.13E-10	1.70E-12	8.71E-10	9.60E-11	3.28E-10	3.94E-13	4.24E-10
4128	421193	3734427	1.08E-09	4.93E-09	1.08E-11	6.02E-09	1.48E-10	6.74E-10	1.60E-12	8.23E-10	9.07E-11	3.10E-10	3.73E-13	4.01E-10
4129	421193	3734418	1.02E-09	4.66E-09	1.02E-11	5.69E-09	1.40E-10	6.37E-10	1.52E-12	7.78E-10	8.57E-11	2.93E-10	3.52E-13	3.79E-10
4130	421192.9	3734409	9.64E-10	4.41E-09	9.63E-12	5.38E-09	1.32E-10	6.03E-10	1.43E-12	7.36E-10	8.11E-11	2.77E-10	3.33E-13	3.58E-10
4131	421192.8	3734400	9.12E-10	4.17E-09	9.12E-12	5.09E-09	1.25E-10	5.70E-10	1.36E-12	6.97E-10	7.68E-11	2.62E-10	3.15E-13	3.39E-10
4132	421192.8	3734390	8.64E-10	3.95E-09	8.64E-12	4.82E-09	1.18E-10	5.40E-10	1.29E-12	6.60E-10	7.27E-11	2.48E-10	2.99E-13	3.21E-10
4133	421233.6	3734501	1.39E-09	6.34E-09	1.39E-11	7.74E-09	1.90E-10	8.67E-10	2.06E-12	1.06E-09	1.17E-10	3.98E-10	4.79E-13	5.16E-10
4134	421233.5	3734492	1.32E-09	6.03E-09	1.32E-11	7.36E-09	1.81E-10	8.24E-10	1.96E-12	1.01E-09	1.11E-10	3.79E-10	4.56E-13	4.90E-10
4135	421233.4	3734483	1.25E-09	5.73E-09	1.25E-11	6.99E-09	1.72E-10	7.83E-10	1.86E-12	9.56E-10	1.05E-10	3.60E-10	4.33E-13	4.66E-10
4136	421233.4	3734474	1.19E-09	5.43E-09	1.19E-11	6.63E-09	1.63E-10	7.43E-10	1.77E-12	9.08E-10	1.00E-10	3.41E-10	4.11E-13	4.42E-10
4137	421233.3	3734464	1.13E-09	5.15E-09	1.13E-11	6.29E-09	1.55E-10	7.05E-10	1.68E-12	8.61E-10	9.49E-11	3.24E-10	3.90E-13	4.19E-10
4138	421233.1	3734436	9.62E-10	4.40E-09	9.62E-12	5.37E-09	1.32E-10	6.02E-10	1.43E-12	7.35E-10	8.10E-11	2.77E-10	3.33E-13	3.58E-10
4139	421233	3734427	9.13E-10	4.17E-09	9.13E-12	5.10E-09	1.25E-10	5.71E-10	1.36E-12	6.97E-10	7.68E-11	2.62E-10	3.16E-13	3.39E-10
4140	421233	3734418	8.66E-10	3.96E-09	8.66E-12	4.84E-09	1.19E-10	5.42E-10	1.29E-12	6.62E-10	7.29E-11	2.49E-10	2.99E-13	3.22E-10
4141	421232.9	3734409	8.22E-10	3.76E-09	8.22E-12	4.59E-09	1.13E-10	5.14E-10	1.22E-12	6.28E-10	6.92E-11	2.36E-10	2.84E-13	3.06E-10
4142	421232.8	3734399	7.81E-10	3.57E-09	7.81E-12	4.36E-09	1.07E-10	4.88E-10	1.16E-12	5.97E-10	6.57E-11	2.24E-10	2.70E-13	2.90E-10
4143	421232.8	3734390	7.42E-10	3.39E-09	7.41E-12	4.14E-09	1.02E-10	4.64E-10	1.10E-12	5.67E-10	6.24E-11	2.13E-10	2.56E-13	2.76E-10
4144	421273.5	3734510	1.21E-09	5.55E-09	1.21E-11	6.78E-09	1.66E-10	7.59E-10	1.81E-12	9.27E-10	1.02E-10	3.49E-10	4.20E-13	4.51E-10
4145	421273.6	3734501	1.16E-09	5.30E-09	1.16E-11	6.47E-09	1.59E-10	7.24E-10	1.72E-12	8.85E-10	9.75E-11	3.33E-10	4.00E-13	4.31E-10
4146	421273.5	3734492	1.10E-09	5.05E-09	1.10E-11	6.17E-09	1.51E-10	6.91E-10	1.64E-12	8.44E-10	9.29E-11	3.17E-10	3.82E-13	4.11E-10
4147	421273.4	3734483	1.05E-09	4.81E-09	1.05E-11	5.88E-09	1.44E-10	6.58E-10	1.57E-12	8.04E-10	8.85E-11	3.02E-10	3.64E-13	3.91E-10
4148	421273.4	3734473	1.00E-09	4.58E-09	1.00E-11	5.59E-09	1.37E-10	6.27E-10	1.49E-12	7.65E-10	8.43E-11	2.88E-10	3.46E-13	3.73E-10
4149	421273.3	3734464	9.54E-10	4.36E-09	9.54E-12	5.33E-09	1.31E-10	5.96E-10	1.42E-12	7.29E-10	8.03E-11	2.74E-10	3.30E-13	3.55E-10
4150	421273.2	3734455	9.08E-10	4.15E-09	9.07E-12	5.07E-09	1.24E-10	5.67E-10	1.35E-12	6.93E-10	7.64E-11	2.61E-10	3.14E-13	3.37E-10
4151	421273.2	3734445	8.63E-10	3.95E-09	8.63E-12	4.82E-09	1.18E-10	5.40E-10	1.29E-12	6.59E-10	7.26E-11	2.48E-10	2.98E-13	3.21E-10
4152	421273.1	3734436	8.21E-10	3.75E-09	8.21E-12	4.58E-09	1.13E-10	5.13E-10	1.22E-12	6.27E-10	6.91E-11	2.36E-10	2.84E-13	3.05E-10
4153	421273	3734427	7.81E-10	3.57E-09	7.81E-12	4.36E-09	1.07E-10	4.88E-10	1.16E-12	5.97E-10	6.57E-11	2.25E-10	2.70E-13	2.91E-10
4154	421273	3734418	7.44E-10	3.40E-09	7.43E-12	4.15E-09	1.02E-10	4.65E-10	1.11E-12	5.68E-10	6.26E-11	2.14E-10	2.57E-13	2.77E-10
4155	421272.9	3734408	7.09E-10	3.24E-09	7.08E-12	3.96E-09	9.71E-11	4.43E-10	1.05E-12	5.41E-10	5.96E-11	2.04E-10	2.45E-13	2.63E-10
4156	421272.8	3734399	6.75E-10	3.09E-09	6.75E-12	3.77E-09	9.26E-11	4.22E-10	1.01E-12	5.16E-10	5.68E-11	1.94E-10	2.33E-13	2.51E-10
4157	421272.8	3734390	6.41E-10	2.93E-09	6.41E-12	3.58E-09	8.79E-11	4.01E-10	9.54E-13	4.90E-10	5.39E-11	1.84E-10	2.22E-13	2.38E-10

4158	421313.5	3734507	1.01E-09	4.63E-09	1.01E-11	5.65E-09	1.39E-10	6.32E-10	1.51E-12	7.73E-10	8.51E-11	2.91E-10	3.50E-13	3.76E-10
4159	421313.5	3734492	9.37E-10	4.28E-09	9.36E-12	5.23E-09	1.28E-10	5.86E-10	1.39E-12	7.15E-10	7.88E-11	2.69E-10	3.24E-13	3.48E-10
4160	421313.4	3734482	8.95E-10	4.09E-09	8.94E-12	5.00E-09	1.23E-10	5.59E-10	1.33E-12	6.83E-10	7.53E-11	2.57E-10	3.09E-13	3.33E-10
4161	421313.4	3734473	8.55E-10	3.91E-09	8.54E-12	4.77E-09	1.17E-10	5.34E-10	1.27E-12	6.53E-10	7.19E-11	2.46E-10	2.95E-13	3.18E-10
4162	421313.3	3734464	8.16E-10	3.73E-09	8.16E-12	4.56E-09	1.12E-10	5.10E-10	1.21E-12	6.23E-10	6.87E-11	2.34E-10	2.82E-13	3.03E-10
4163	421313.2	3734454	7.79E-10	3.56E-09	7.78E-12	4.35E-09	1.07E-10	4.87E-10	1.16E-12	5.95E-10	6.55E-11	2.24E-10	2.69E-13	2.90E-10
4164	421313.2	3734445	7.43E-10	3.40E-09	7.42E-12	4.15E-09	1.02E-10	4.64E-10	1.11E-12	5.67E-10	6.25E-11	2.13E-10	2.57E-13	2.76E-10
4165	421313.1	3734436	7.09E-10	3.24E-09	7.09E-12	3.96E-09	9.72E-11	4.43E-10	1.06E-12	5.41E-10	5.96E-11	2.04E-10	2.45E-13	2.64E-10
4166	421313	3734427	6.74E-10	3.08E-09	6.74E-12	3.76E-09	9.24E-11	4.22E-10	1.00E-12	5.15E-10	5.67E-11	1.94E-10	2.33E-13	2.51E-10
4167	421313	3734417	6.43E-10	2.94E-09	6.43E-12	3.59E-09	8.82E-11	4.02E-10	9.58E-13	4.91E-10	5.41E-11	1.85E-10	2.22E-13	2.39E-10
4168	421312.9	3734408	6.14E-10	2.81E-09	6.14E-12	3.43E-09	8.42E-11	3.84E-10	9.14E-13	4.69E-10	5.17E-11	1.76E-10	2.12E-13	2.28E-10
4169	421312.8	3734399	5.87E-10	2.68E-09	5.86E-12	3.27E-09	8.04E-11	3.67E-10	8.73E-13	4.48E-10	4.94E-11	1.69E-10	2.03E-13	2.18E-10
4170	421312.8	3734390	5.61E-10	2.57E-09	5.61E-12	3.13E-09	7.69E-11	3.51E-10	8.35E-13	4.29E-10	4.72E-11	1.61E-10	1.94E-13	2.09E-10
4171	421353.1	3734436	6.18E-10	2.83E-09	6.18E-12	3.45E-09	8.48E-11	3.87E-10	9.21E-13	4.72E-10	5.20E-11	1.78E-10	2.14E-13	2.30E-10
4172	421353	3734426	5.92E-10	2.71E-09	5.92E-12	3.31E-09	8.12E-11	3.70E-10	8.81E-13	4.52E-10	4.98E-11	1.70E-10	2.05E-13	2.20E-10
4173	421353	3734417	5.67E-10	2.59E-09	5.67E-12	3.17E-09	7.78E-11	3.55E-10	8.44E-13	4.33E-10	4.77E-11	1.63E-10	1.96E-13	2.11E-10
4174	421352.9	3734408	5.43E-10	2.48E-09	5.43E-12	3.03E-09	7.45E-11	3.40E-10	8.09E-13	4.15E-10	4.57E-11	1.56E-10	1.88E-13	2.02E-10
4175	421352.8	3734399	5.21E-10	2.38E-09	5.21E-12	2.91E-09	7.14E-11	3.26E-10	7.76E-13	3.98E-10	4.38E-11	1.50E-10	1.80E-13	1.94E-10
4176	421352.8	3734389	5.00E-10	2.28E-09	4.99E-12	2.79E-09	6.85E-11	3.12E-10	7.44E-13	3.82E-10	4.20E-11	1.44E-10	1.73E-13	1.86E-10
4177	421393.5	3734508	7.46E-10	3.41E-09	7.46E-12	4.17E-09	1.02E-10	4.67E-10	1.11E-12	5.70E-10	6.28E-11	2.14E-10	2.58E-13	2.78E-10
4178	421393.5	3734491	6.96E-10	3.18E-09	6.95E-12	3.88E-09	9.54E-11	4.35E-10	1.04E-12	5.31E-10	5.85E-11	2.00E-10	2.40E-13	2.59E-10
4179	421393.4	3734482	6.68E-10	3.05E-09	6.68E-12	3.73E-09	9.16E-11	4.18E-10	9.94E-13	5.10E-10	5.62E-11	1.92E-10	2.31E-13	2.48E-10
4180	421393.4	3734472	6.41E-10	2.93E-09	6.41E-12	3.58E-09	8.79E-11	4.01E-10	9.55E-13	4.90E-10	5.40E-11	1.84E-10	2.22E-13	2.38E-10
4181	421393.3	3734463	6.16E-10	2.81E-09	6.15E-12	3.44E-09	8.44E-11	3.85E-10	9.16E-13	4.70E-10	5.18E-11	1.77E-10	2.13E-13	2.29E-10
4182	421393.2	3734454	5.91E-10	2.70E-09	5.90E-12	3.30E-09	8.10E-11	3.69E-10	8.79E-13	4.51E-10	4.97E-11	1.70E-10	2.04E-13	2.20E-10
4183	421393.2	3734445	5.67E-10	2.59E-09	5.67E-12	3.17E-09	7.77E-11	3.55E-10	8.44E-13	4.33E-10	4.77E-11	1.63E-10	1.96E-13	2.11E-10
4184	421393.1	3734435	5.44E-10	2.49E-09	5.44E-12	3.04E-09	7.46E-11	3.40E-10	8.10E-13	4.16E-10	4.58E-11	1.56E-10	1.88E-13	2.02E-10
4185	421393	3734426	5.23E-10	2.39E-09	5.22E-12	2.92E-09	7.16E-11	3.27E-10	7.78E-13	3.99E-10	4.40E-11	1.50E-10	1.81E-13	1.94E-10
4186	421393	3734417	5.02E-10	2.29E-09	5.02E-12	2.80E-09	6.88E-11	3.14E-10	7.47E-13	3.83E-10	4.22E-11	1.44E-10	1.73E-13	1.87E-10
4187	421392.9	3734408	4.82E-10	2.20E-09	4.82E-12	2.69E-09	6.61E-11	3.01E-10	7.18E-13	3.68E-10	4.06E-11	1.39E-10	1.67E-13	1.79E-10
4188	421392.8	3734398	4.63E-10	2.12E-09	4.63E-12	2.59E-09	6.35E-11	2.90E-10	6.90E-13	3.54E-10	3.90E-11	1.33E-10	1.60E-13	1.72E-10
4189	421392.8	3734389	4.44E-10	2.03E-09	4.44E-12	2.48E-09	6.09E-11	2.78E-10	6.62E-13	3.39E-10	3.74E-11	1.28E-10	1.54E-13	1.65E-10
4190	421433.5	3734508	6.42E-10	2.94E-09	6.42E-12	3.59E-09	8.81E-11	4.02E-10	9.56E-13	4.91E-10	5.40E-11	1.85E-10	2.22E-13	2.39E-10
4191	421433.5	3734491	6.01E-10	2.75E-09	6.01E-12	3.36E-09	8.24E-11	3.76E-10	8.95E-13	4.59E-10	5.06E-11	1.73E-10	2.08E-13	2.24E-10
4192	421433.4	3734481	5.80E-10	2.65E-09	5.80E-12	3.24E-09	7.95E-11	3.63E-10	8.64E-13	4.43E-10	4.88E-11	1.67E-10	2.00E-13	2.16E-10
4193	421433.4	3734472	5.60E-10	2.56E-09	5.59E-12	3.12E-09	7.67E-11	3.50E-10	8.33E-13	4.28E-10	4.71E-11	1.61E-10	1.93E-13	2.08E-10
4194	421433.3	3734463	5.40E-10	2.47E-09	5.40E-12	3.02E-09	7.40E-11	3.38E-10	8.04E-13	4.13E-10	4.54E-11	1.55E-10	1.87E-13	2.01E-10
4195	421433.2	3734454	5.21E-10	2.38E-09	5.21E-12	2.91E-09	7.14E-11	3.26E-10	7.76E-13	3.98E-10	4.38E-11	1.50E-10	1.80E-13	1.94E-10
4196	421433.2	3734444	5.02E-10	2.29E-09	5.02E-12	2.80E-09	6.88E-11	3.14E-10	7.47E-13	3.83E-10	4.22E-11	1.44E-10	1.73E-13	1.87E-10
4197	421433.1	3734435	4.83E-10	2.21E-09	4.83E-12	2.70E-09	6.62E-11	3.02E-10	7.19E-13	3.69E-10	4.06E-11	1.39E-10	1.67E-13	1.80E-10
4198	421433	3734426	4.65E-10	2.12E-09	4.65E-12	2.59E-09	6.37E-11	2.91E-10	6.92E-13	3.55E-10	3.91E-11	1.34E-10	1.61E-13	1.73E-10
4199	421433	3734416	4.47E-10	2.05E-09	4.47E-12	2.50E-09	6.13E-11	2.80E-10	6.66E-13	3.42E-10	3.76E-11	1.29E-10	1.55E-13	1.66E-10
4200	421432.9	3734407	4.31E-10	1.97E-09	4.30E-12	2.40E-09	5.90E-11	2.69E-10	6.41E-13	3.29E-10	3.62E-11	1.24E-10	1.49E-13	1.60E-10
4201	421432.8	3734398	4.15E-10	1.90E-09	4.15E-12	2.32E-09	5.69E-11	2.59E-10	6.17E-13	3.17E-10	3.49E-11	1.19E-10	1.43E-13	1.54E-10
4202	421432.8	3734389	3.99E-10	1.83E-09	3.99E-12	2.23E-09	5.48E-11	2.50E-10	5.95E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.49E-10
4203	420732.8	3734854	2.85E-09	1.30E-08	2.85E-11	1.59E-08	3.91E-10	1.78E-09	4.25E-12	2.18E-09	2.40E-10	8.20E-10	9.86E-13	1.06E-09
4204	420744.5	3734854	3.29E-09	1.51E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	4.90E-12	2.51E-09	2.77E-10	9.46E-10	1.14E-12	1.22E-09
4205	420732.8	3734894	2.13E-09	9.74E-09	2.13E-11	1.19E-08	2.92E-10	1.33E-09	3.17E-12	1.63E-09	1.79E-10	6.12E-10	7.36E-13	7.92E-10
4206	420744.5	3734894	2.43E-09	1.11E-08	2.43E-11	1.35E-08	3.33E-10	1.52E-09	3.61E-12	1.85E-09	2.04E-10	6.97E-10	8.39E-13	9.03E-10
4207	420732.8	3734934	1.65E-09	7.53E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	2.45E-12	1.26E-09	1.39E-10	4.73E-10	5.69E-13	6.13E-10
4208	420744.5	3734934	1.87E-09	8.54E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.37E-10	6.46E-13	6.95E-10
4209	420732.8	3734974	1.32E-09	6.06E-09	1.32E-11	7.39E-09	1.82E-10	8.28E-10	1.97E-12	1.01E-09	1.11E-10	3.81E-10	4.58E-13	4.93E-10
4210	420744.5	3734974	1.47E-09	6.73E-09	1.47E-11	8.22E-09	2.02E-10	9.20E-10	2.19E-12	1.12E-09	1.24E-10	4.23E-10	5.09E-13	5.47E-10
4211	420732.8	3735014	1.07E-09	4.91E-09	1.07E-11	6.00E-09	1.47E-10	6.72E-10	1.60E-12	8.21E-10	9.04E-11	3.09E-10	3.71E-13	4.00E-10
4212	420744.5	3735014	1.18E-09	5.39E-09	1.18E-11	6.59E-09	1.62E-10	7.38E-10	1.76E-12	9.01E-10	9.93E-11	3.39E-10	4.08E-13	4.39E-10
4213	420732.8	3735054	8.80E-10	4.02E-09	8.79E-12	4.91E-09	1.21E-10	5.50E-10	1.31E-12	6.72E-10	7.40E-11	2.53E-10	3.04E-13	3.27E-10
4214	420744.5	3735054	9.60E-10	4.39E-09	9.60E-12	5.36E-09	1.32E-10	6.00E-10	1.43E-12	7.33E-10	8.08E-11	2.76E-10	3.32E-13	3.57E-10
4215	420754.4	3734384	1.40E-08	6.39E-08	1.40E-10	7.80E-08	1.92E-09	8.74E-09	2.08E-11	1.07E-08	1.18E-09	4.01E-09	4.83E-12	5.19E-09
4216	420754.4	3734374	1.11E-08	5.07E-08	1.11E-10	6.19E-08	1.52E-09	6.94E-09	1.65E-11	8.48E-09	9.34E-10	3.19E-09	3.83E-12	4.13E-09
4217	420754.3	3734365	9.00E-09	4.11E-08	9.00E-11	5.02E-08	1.23E-09	5.63E-09	1.34E-11	6.87E-09	7.57E-10	2.59E-09	3.11E-12	3.35E-09
4218	420754.3	3734355	7.42E-09	3.39E-08	7.42E-11	4.14E-08	1.02E-09	4.64E-09	1.11E-11	5.67E-09	6.25E-10	2.13E-09	2.57E-12	2.76E-09
4219	420754.3	3734345	6.21E-09	2.84E-08	6.20E-11	3.46E-08	8.51E-10	3.88E-09	9.24E-12	4.74E-09	5.22E-10	1.78E-09	2.14E-12	2.31E-09
4220	420754.2	3734335	5.25E-09	2.40E-08	5.25E-11	2.93E-08	7.20E-10	3.28E-09	7.82E-12	4.01E-09	4.42E-10	1.51E-09	1.81E-12	1.95E-09
4221	420754.2	3734326	4.49E-09	2.05E-08	4.49E-11	2.51E-08	6.16E-10	2.81E-09	6.69E-12	3.43E-09	3.78E-10	1.29E-09	1.55E-12	1.67E-09
4222	420764.4	3734384	1.28E-08	5.87E-08	1.28E-10	7.17E-08	1.76E-09	8.03E-09	1.91E-11	9.81E-09	1.08E-09	3.69E-09	4.44E-12	4.78E-09
4223	420764.4	3734374	1.04E-08	4.76E-08	1.04E-10	5.81E-08	1.43E-09	6.50E-09	1.55E-11	7.94E-09	8.75E-10	2.99E-09	3.59E-12	3.87E-09
4224	420764.3	3734365	8.56E-09	3.91E-08	8.55E-11	4.78E-08	1.17E-09	5.35E-09	1.27E-11	6.54E-09	7.20E-10	2.46E-09	2.96E-12	3.18E-09
4225	420764.3	3734355	7.14E-09	3.26E-08	7.13E-11	3.98E-08	9.78E-10	4.46E-09	1.06E-11	5.45E-09	6.00E-10	2.05E-09	2.47E-12	2.65E-09
4226	420764.3	3734345	6.02E-09	2.75E-08	6.01E-11	3.36E-08	8.25E-10	3.76E-09	8.96E-12	4.60E-09	5.06E-10	1.73E-09	2.08E-12	2.24E-09
4227	420764.2	3734335	5.13E-09	2.35E-08	5.13E-11	2.86E-08	7.03E-10	3.21E-09	7.64E-12	3.92E-09	4.32E-10	1.47E-09	1.77E-12	1.91E-09
4228	420764.2	3734326	4.42E-09	2.02E-08	4.41E-11	2.47E-08	6.05E-10	2.76E-09	6.57E-12	3.37E-09	3.72E-10	1.27E-09	1.53E-12	1.64E-09
4229	420774.4	3734384	1.17E-08	5.36E-08	1.17E-10	6.55E-08	1.61E-09	7.33E-09	1.75E-11	8.96E-09	9.87E-10	3.37E-09	4.05E-12	4.36E-09
4230	420774.4	3734374	9.66E-09	4.42E-08	9.65E-11	5.39E-08	1.32E-09	6.04E-09	1.44E-11	7.38E-09	8.13E-10	2.78E-09	3.34E-12	3.59E-09

4231	420774.3	3734364	8.06E-09	3.68E-08	8.05E-11	4.50E-08	1.10E-09	5.04E-09	1.20E-11	6.15E-09	6.78E-10	2.32E-09	2.78E-12	3.00E-09
4232	420774.3	3734355	6.79E-09	3.11E-08	6.79E-11	3.79E-08	9.31E-10	4.25E-09	1.01E-11	5.19E-09	5.72E-10	1.95E-09	2.35E-12	2.53E-09
4233	420774.3	3734345	5.78E-09	2.64E-08	5.78E-11	3.23E-08	7.93E-10	3.62E-09	8.61E-12	4.42E-09	4.87E-10	1.66E-09	2.00E-12	2.15E-09
4234	420774.2	3734335	4.97E-09	2.27E-08	4.97E-11	2.78E-08	6.82E-10	3.11E-09	7.40E-12	3.80E-09	4.18E-10	1.43E-09	1.72E-12	1.85E-09
4235	420774.2	3734326	4.31E-09	1.97E-08	4.31E-11	2.41E-08	5.91E-10	2.69E-09	6.41E-12	3.29E-09	3.63E-10	1.24E-09	1.49E-12	1.60E-09
4236	420834.4	3734374	5.87E-09	2.69E-08	5.87E-11	3.28E-08	8.05E-10	3.67E-09	8.74E-12	4.49E-09	4.94E-10	1.69E-09	2.03E-12	2.18E-09
4237	420834.3	3734364	5.19E-09	2.38E-08	5.19E-11	2.90E-08	7.12E-10	3.25E-09	7.73E-12	3.97E-09	4.37E-10	1.49E-09	1.80E-12	1.93E-09
4238	420834.3	3734355	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.34E-10	2.89E-09	6.88E-12	3.53E-09	3.89E-10	1.33E-09	1.60E-12	1.72E-09
4239	420834.3	3734345	4.14E-09	1.89E-08	4.13E-11	2.31E-08	5.67E-10	2.59E-09	6.16E-12	3.16E-09	3.48E-10	1.19E-09	1.43E-12	1.54E-09
4240	420834.2	3734335	3.71E-09	1.70E-08	3.71E-11	2.07E-08	5.09E-10	2.32E-09	5.52E-12	2.83E-09	3.12E-10	1.07E-09	1.28E-12	1.38E-09
4241	420834.2	3734325	3.34E-09	1.53E-08	3.34E-11	1.86E-08	4.58E-10	2.09E-09	4.97E-12	2.55E-09	2.81E-10	9.60E-10	1.15E-12	1.24E-09
4242	420834.2	3734316	3.02E-09	1.38E-08	3.01E-11	1.68E-08	4.13E-10	1.89E-09	4.49E-12	2.30E-09	2.54E-10	8.66E-10	1.04E-12	1.12E-09
4243	420834.1	3734306	2.73E-09	1.25E-08	2.73E-11	1.52E-08	3.74E-10	1.71E-09	4.06E-12	2.08E-09	2.29E-10	7.84E-10	9.43E-13	1.01E-09
4244	420844.4	3734384	6.13E-09	2.80E-08	6.13E-11	3.42E-08	8.41E-10	3.83E-09	9.13E-12	4.68E-09	5.16E-10	1.76E-09	2.12E-12	2.28E-09
4245	420844.4	3734374	5.41E-09	2.47E-08	5.41E-11	3.02E-08	7.42E-10	3.38E-09	8.06E-12	4.13E-09	4.55E-10	1.56E-09	1.87E-12	2.01E-09
4246	420844.3	3734364	4.82E-09	2.20E-08	4.81E-11	2.69E-08	6.60E-10	3.01E-09	7.17E-12	3.68E-09	4.05E-10	1.38E-09	1.66E-12	1.79E-09
4247	420844.3	3734355	4.31E-09	1.97E-08	4.31E-11	2.41E-08	5.91E-10	2.70E-09	6.42E-12	3.29E-09	3.63E-10	1.24E-09	1.49E-12	1.60E-09
4248	420844.3	3734345	3.88E-09	1.77E-08	3.88E-11	2.16E-08	5.32E-10	2.42E-09	5.77E-12	2.96E-09	3.26E-10	1.11E-09	1.34E-12	1.44E-09
4249	420844.2	3734335	3.50E-09	1.60E-08	3.50E-11	1.95E-08	4.80E-10	2.19E-09	5.21E-12	2.67E-09	2.94E-10	1.01E-09	1.21E-12	1.30E-09
4250	420844.2	3734325	3.17E-09	1.45E-08	3.16E-11	1.77E-08	4.34E-10	1.98E-09	4.71E-12	2.42E-09	2.66E-10	9.10E-10	1.09E-12	1.18E-09
4251	420844.2	3734316	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.80E-09	4.28E-12	2.19E-09	2.42E-10	8.25E-10	9.93E-13	1.07E-09
4252	420844.1	3734306	2.61E-09	1.19E-08	2.61E-11	1.46E-08	3.58E-10	1.63E-09	3.89E-12	1.99E-09	2.20E-10	7.50E-10	9.02E-13	9.71E-10
4253	420843.5	3734444	1.66E-08	7.58E-08	1.66E-10	9.26E-08	2.27E-09	1.04E-08	2.47E-11	1.27E-08	1.40E-09	4.77E-09	5.73E-12	6.17E-09
4254	420864.4	3734384	5.18E-09	2.37E-08	5.18E-11	2.89E-08	7.10E-10	3.24E-09	7.71E-12	3.96E-09	4.36E-10	1.49E-09	1.79E-12	1.93E-09
4255	420864.4	3734374	4.62E-09	2.11E-08	4.62E-11	2.58E-08	6.34E-10	2.89E-09	6.88E-12	3.53E-09	3.89E-10	1.33E-09	1.60E-12	1.72E-09
4256	420864.3	3734364	4.15E-09	1.90E-08	4.15E-11	2.32E-08	5.69E-10	2.60E-09	6.18E-12	3.17E-09	3.49E-10	1.19E-09	1.44E-12	1.54E-09
4257	420864.3	3734354	3.75E-09	1.72E-08	3.75E-11	2.09E-08	5.14E-10	2.35E-09	5.59E-12	2.87E-09	3.16E-10	1.08E-09	1.30E-12	1.40E-09
4258	420864.3	3734345	3.41E-09	1.56E-08	3.40E-11	1.90E-08	4.67E-10	2.13E-09	5.07E-12	2.60E-09	2.87E-10	9.79E-10	1.18E-12	1.27E-09
4259	420864.2	3734335	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.25E-10	1.94E-09	4.62E-12	2.37E-09	2.61E-10	8.92E-10	1.07E-12	1.15E-09
4260	420864.2	3734325	2.83E-09	1.30E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	4.22E-12	2.16E-09	2.38E-10	8.14E-10	9.79E-13	1.05E-09
4261	420864.2	3734316	2.59E-09	1.19E-08	2.59E-11	1.45E-08	3.56E-10	1.62E-09	3.86E-12	1.98E-09	2.18E-10	7.45E-10	8.96E-13	9.64E-10
4262	420864.1	3734306	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.26E-10	1.49E-09	3.54E-12	1.82E-09	2.00E-10	6.83E-10	8.22E-13	8.84E-10
4263	420884.3	3734345	3.00E-09	1.37E-08	3.00E-11	1.67E-08	4.11E-10	1.87E-09	4.46E-12	2.29E-09	2.52E-10	8.62E-10	1.04E-12	1.12E-09
4264	420884.2	3734335	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.77E-10	1.72E-09	4.10E-12	2.10E-09	2.31E-10	7.91E-10	9.51E-13	1.02E-09
4265	420884.2	3734325	2.53E-09	1.16E-08	2.53E-11	1.41E-08	3.47E-10	1.58E-09	3.77E-12	1.93E-09	2.13E-10	7.27E-10	8.75E-13	9.41E-10
4266	420884.2	3734316	2.33E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.47E-12	1.78E-09	1.96E-10	6.71E-10	8.07E-13	8.68E-10
4267	420884.1	3734306	2.16E-09	9.86E-09	2.15E-11	1.20E-08	2.96E-10	1.35E-09	3.21E-12	1.65E-09	1.81E-10	6.19E-10	7.45E-13	8.02E-10
4268	420884.1	3734296	1.99E-09	9.11E-09	1.99E-11	1.11E-08	2.73E-10	1.25E-09	2.97E-12	1.52E-09	1.68E-10	5.73E-10	6.89E-13	7.41E-10
4269	420882.9	3734445	1.03E-08	4.70E-08	1.03E-10	5.74E-08	1.41E-09	6.42E-09	1.53E-11	7.85E-09	8.64E-10	2.95E-09	3.55E-12	3.82E-09
4270	420904.4	3734383	3.81E-09	1.74E-08	3.81E-11	2.13E-08	5.22E-10	2.38E-09	5.67E-12	2.91E-09	3.20E-10	1.09E-09	1.32E-12	1.42E-09
4271	420904.4	3734374	3.45E-09	1.58E-08	3.45E-11	1.93E-08	4.73E-10	2.16E-09	5.13E-12	2.63E-09	2.90E-10	9.91E-10	1.19E-12	1.28E-09
4272	420904.3	3734345	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.94E-12	2.02E-09	2.23E-10	7.61E-10	9.15E-13	9.84E-10
4273	420904.2	3734335	2.44E-09	1.12E-08	2.44E-11	1.36E-08	3.35E-10	1.53E-09	3.64E-12	1.87E-09	2.06E-10	7.02E-10	8.44E-13	9.08E-10
4274	420904.2	3734325	2.26E-09	1.03E-08	2.26E-11	1.26E-08	3.10E-10	1.41E-09	3.37E-12	1.73E-09	1.90E-10	6.50E-10	7.81E-13	8.41E-10
4275	420904.2	3734315	2.10E-09	9.59E-09	2.10E-11	1.17E-08	2.88E-10	1.31E-09	3.12E-12	1.60E-09	1.77E-10	6.03E-10	7.25E-13	7.80E-10
4276	420904.1	3734306	1.95E-09	8.91E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	2.90E-12	1.49E-09	1.64E-10	5.60E-10	6.74E-13	7.25E-10
4277	420904.1	3734296	1.81E-09	8.29E-09	1.81E-11	1.01E-08	2.49E-10	1.13E-09	2.70E-12	1.39E-09	1.53E-10	5.21E-10	6.27E-13	6.75E-10
4278	420903.5	3734444	8.09E-09	3.70E-08	8.08E-11	4.51E-08	1.11E-09	5.06E-09	1.20E-11	6.18E-09	6.80E-10	2.32E-09	2.79E-12	3.01E-09
4279	420924.4	3734383	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.52E-10	2.06E-09	4.91E-12	2.52E-09	2.77E-10	9.48E-10	1.14E-12	1.23E-09
4280	420924.4	3734374	3.00E-09	1.37E-08	3.00E-11	1.68E-08	4.12E-10	1.88E-09	4.47E-12	2.29E-09	2.53E-10	8.63E-10	1.04E-12	1.12E-09
4281	420924.3	3734345	2.34E-09	1.07E-08	2.34E-11	1.31E-08	3.21E-10	1.46E-09	3.49E-12	1.79E-09	1.97E-10	6.73E-10	8.10E-13	8.71E-10
4282	420924.2	3734335	2.17E-09	9.94E-09	2.17E-11	1.21E-08	2.98E-10	1.36E-09	3.24E-12	1.66E-09	1.83E-10	6.25E-10	7.51E-13	8.08E-10
4283	420924.2	3734325	2.02E-09	9.25E-09	2.02E-11	1.13E-08	2.77E-10	1.26E-09	3.01E-12	1.54E-09	1.70E-10	5.81E-10	6.99E-13	7.52E-10
4284	420924.2	3734315	1.89E-09	8.62E-09	1.89E-11	1.05E-08	2.59E-10	1.18E-09	2.81E-12	1.44E-09	1.59E-10	5.42E-10	6.52E-13	7.01E-10
4285	420924.1	3734306	1.76E-09	8.06E-09	1.76E-11	9.84E-09	2.42E-10	1.10E-09	2.62E-12	1.35E-09	1.48E-10	5.06E-10	6.09E-13	6.55E-10
4286	420924.1	3734296	1.65E-09	7.53E-09	1.65E-11	9.20E-09	2.26E-10	1.03E-09	2.45E-12	1.26E-09	1.39E-10	4.74E-10	5.69E-13	6.13E-10
4287	420922.6	3734446	6.87E-09	3.14E-08	6.86E-11	3.83E-08	9.41E-10	4.29E-09	1.02E-11	5.24E-09	5.78E-10	1.97E-09	2.37E-12	2.55E-09
4288	420904.4	3734491	1.41E-08	6.47E-08	1.41E-10	7.90E-08	1.94E-09	8.84E-09	2.11E-11	1.08E-08	1.19E-09	4.06E-09	4.89E-12	5.26E-09
4289	420944.4	3734383	2.88E-09	1.31E-08	2.87E-11	1.61E-08	3.94E-10	1.80E-09	4.28E-12	2.20E-09	2.42E-10	8.26E-10	9.94E-13	1.07E-09
4290	420944.4	3734374	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.61E-10	1.65E-09	3.92E-12	2.01E-09	2.22E-10	7.57E-10	9.10E-13	9.80E-10
4291	420944.3	3734344	2.08E-09	9.52E-09	2.08E-11	1.16E-08	2.86E-10	1.30E-09	3.10E-12	1.59E-09	1.75E-10	5.98E-10	7.20E-13	7.74E-10
4292	420944.2	3734335	1.94E-09	8.87E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	2.89E-12	1.48E-09	1.63E-10	5.57E-10	6.70E-13	7.21E-10
4293	420944.2	3734325	1.81E-09	8.28E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	2.70E-12	1.38E-09	1.52E-10	5.21E-10	6.26E-13	6.74E-10
4294	420944.2	3734315	1.70E-09	7.76E-09	1.70E-11	9.47E-09	2.33E-10	1.06E-09	2.53E-12	1.30E-09	1.43E-10	4.88E-10	5.86E-13	6.31E-10
4295	420944.1	3734306	1.59E-09	7.28E-09	1.59E-11	8.89E-09	2.18E-10	9.95E-10	2.37E-12	1.22E-09	1.34E-10	4.57E-10	5.50E-13	5.92E-10
4296	420944.1	3734296	1.50E-09	6.84E-09	1.49E-11	8.35E-09	2.05E-10	9.35E-10	2.23E-12	1.14E-09	1.26E-10	4.30E-10	5.17E-13	5.56E-10
4297	420943.1	3734445	5.61E-09	2.56E-08	5.61E-11	3.13E-08	7.69E-10	3.51E-09	8.35E-12	4.28E-09	4.72E-10	1.61E-09	1.94E-12	2.09E-09
4298	420964.4	3734383	2.53E-09	1.15E-08	2.52E-11	1.41E-08	3.46E-10	1.58E-09	3.76E-12	1.93E-09	2.13E-10	7.26E-10	8.73E-13	9.39E-10
4299	420964.4	3734373	2.33E-09	1.06E-08	2.32E-11	1.30E-08	3.19E-10	1.45E-09	3.46E-12	1.78E-09	1.96E-10	6.68E-10	8.04E-13	8.65E-10
4300	420964.3	3734344	1.86E-09	8.50E-09	1.86E-11	1.04E-08	2.55E-10	1.16E-09	2.77E-12	1.42E-09	1.56E-10	5.34E-10	6.43E-13	6.91E-10
4301	420964.2	3734335	1.74E-09	7.94E-09	1.74E-11	9.70E-09	2.38E-10	1.09E-09	2.59E-12	1.33E-09	1.46E-10	4.99E-10	6.00E-13	6.46E-10
4302	420964.2	3734325	1.63E-09	7.44E-09	1.63E-11	9.09E-09	2.23E-10	1.02E-09	2.42E-12	1.24E-09	1.37E-10	4.68E-10	5.62E-13	6.05E-10
4303	420964.2	3734315	1.53E-09	6.99E-09	1.53E-11	8.53E-09	2.10E-10	9.56E-10	2.28E-12	1.17E-09	1.29E-10	4.39E-10	5.28E-13	5.68E-10

4304	420964.1	3734306	1.44E-09	6.58E-09	1.44E-11	8.03E-09	1.97E-10	9.00E-10	2.14E-12	1.10E-09	1.21E-10	4.14E-10	4.97E-13	5.35E-10
4305	420964.1	3734296	1.36E-09	6.21E-09	1.36E-11	7.58E-09	1.86E-10	8.49E-10	2.02E-12	1.04E-09	1.14E-10	3.90E-10	4.69E-13	5.05E-10
4306	420943.9	3734491	9.18E-09	4.20E-08	9.17E-11	5.12E-08	1.26E-09	5.74E-09	1.37E-11	7.01E-09	7.72E-10	2.64E-09	3.17E-12	3.41E-09
4307	420940.3	3734500	1.04E-08	4.74E-08	1.04E-10	5.79E-08	1.42E-09	6.49E-09	1.54E-11	7.92E-09	8.73E-10	2.98E-09	3.59E-12	3.86E-09
4308	420887.6	3734574	2.94E-08	1.34E-07	2.93E-10	1.64E-07	4.02E-09	1.84E-08	4.37E-11	2.24E-08	2.47E-09	8.43E-09	1.01E-11	1.09E-08
4309	420807.1	3734608	6.70E-08	3.07E-07	6.70E-10	3.74E-07	9.19E-09	4.19E-08	9.98E-11	5.12E-08	5.64E-09	1.93E-08	2.32E-11	2.49E-08
4310	420964.7	3734489	7.35E-09	3.36E-08	7.34E-11	4.10E-08	1.01E-09	4.59E-09	1.09E-11	5.61E-09	6.18E-10	2.11E-09	2.54E-12	2.73E-09
4311	420902.3	3734588	2.51E-08	1.15E-07	2.51E-10	1.40E-07	3.44E-09	1.57E-08	3.74E-11	1.92E-08	2.11E-09	7.22E-09	8.68E-12	9.34E-09
4312	420823.4	3734621	5.20E-08	2.38E-07	5.20E-10	2.90E-07	7.13E-09	3.25E-08	7.74E-11	3.97E-08	4.37E-09	1.49E-08	1.80E-11	1.93E-08
4313	421004.4	3734383	1.99E-09	9.09E-09	1.99E-11	1.11E-08	2.72E-10	1.24E-09	2.96E-12	1.52E-09	1.67E-10	5.71E-10	6.87E-13	7.39E-10
4314	421004.4	3734373	1.84E-09	8.43E-09	1.84E-11	1.03E-08	2.53E-10	1.15E-09	2.74E-12	1.41E-09	1.55E-10	5.30E-10	6.37E-13	6.85E-10
4315	421004.3	3734344	1.50E-09	6.86E-09	1.50E-11	8.37E-09	2.06E-10	9.38E-10	2.23E-12	1.15E-09	1.26E-10	4.31E-10	5.18E-13	5.58E-10
4316	421004.2	3734335	1.41E-09	6.44E-09	1.41E-11	7.86E-09	1.93E-10	8.80E-10	2.10E-12	1.08E-09	1.18E-10	4.05E-10	4.87E-13	5.24E-10
4317	421004.2	3734325	1.33E-09	6.06E-09	1.33E-11	7.40E-09	1.82E-10	8.29E-10	1.97E-12	1.01E-09	1.12E-10	3.81E-10	4.58E-13	4.93E-10
4318	421004.2	3734315	1.25E-09	5.72E-09	1.25E-11	6.99E-09	1.72E-10	7.83E-10	1.86E-12	9.56E-10	1.05E-10	3.60E-10	4.33E-13	4.65E-10
4319	421004.1	3734305	1.19E-09	5.42E-09	1.18E-11	6.62E-09	1.62E-10	7.41E-10	1.76E-12	9.05E-10	9.97E-11	3.41E-10	4.10E-13	4.41E-10
4320	421004.1	3734296	1.12E-09	5.14E-09	1.12E-11	6.28E-09	1.54E-10	7.03E-10	1.67E-12	8.59E-10	9.46E-11	3.23E-10	3.89E-13	4.18E-10
4321	421003.2	3734444	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.77E-10	2.17E-09	5.18E-12	2.66E-09	2.93E-10	9.99E-10	1.20E-12	1.29E-09
4322	420891.1	3734613	2.82E-08	1.29E-07	2.82E-10	1.57E-07	3.86E-09	1.76E-08	4.20E-11	2.15E-08	2.37E-09	8.10E-09	9.74E-12	1.05E-08
4323	420839.3	3734634	4.15E-08	1.90E-07	4.14E-10	2.31E-07	5.68E-09	2.59E-08	6.17E-11	3.17E-08	3.49E-09	1.19E-08	1.43E-11	1.54E-08
4324	421024.4	3734383	1.77E-09	8.12E-09	1.77E-11	9.91E-09	2.43E-10	1.11E-09	2.64E-12	1.36E-09	1.49E-10	5.10E-10	6.13E-13	6.60E-10
4325	421024.4	3734373	1.65E-09	7.55E-09	1.65E-11	9.21E-09	2.26E-10	1.03E-09	2.46E-12	1.26E-09	1.39E-10	4.74E-10	5.70E-13	6.14E-10
4326	421024.3	3734344	1.36E-09	6.20E-09	1.35E-11	7.56E-09	1.86E-10	8.47E-10	2.02E-12	1.03E-09	1.14E-10	3.89E-10	4.68E-13	5.04E-10
4327	421024.2	3734334	1.28E-09	5.83E-09	1.28E-11	7.12E-09	1.75E-10	7.98E-10	1.90E-12	9.74E-10	1.07E-10	3.67E-10	4.41E-13	4.74E-10
4328	421024.2	3734325	1.20E-09	5.50E-09	1.20E-11	6.72E-09	1.65E-10	7.53E-10	1.79E-12	9.19E-10	1.01E-10	3.46E-10	4.16E-13	4.48E-10
4329	421024.2	3734315	1.14E-09	5.21E-09	1.14E-11	6.36E-09	1.56E-10	7.12E-10	1.70E-12	8.70E-10	9.58E-11	3.27E-10	3.94E-13	4.23E-10
4330	421024.1	3734305	1.08E-09	4.94E-09	1.08E-11	6.03E-09	1.48E-10	6.75E-10	1.61E-12	8.25E-10	9.09E-11	3.10E-10	3.73E-13	4.02E-10
4331	421024.1	3734296	1.03E-09	4.70E-09	1.03E-11	5.74E-09	1.41E-10	6.42E-10	1.53E-12	7.85E-10	8.65E-11	2.95E-10	3.55E-13	3.82E-10
4332	421022.6	3734446	3.08E-09	1.41E-08	3.07E-11	1.72E-08	4.22E-10	1.92E-09	4.58E-12	2.35E-09	2.59E-10	8.84E-10	1.06E-12	1.14E-09
4333	421004.4	3734490	5.23E-09	2.39E-08	5.23E-11	2.92E-08	7.17E-10	3.27E-09	7.79E-12	4.00E-09	4.40E-10	1.50E-09	1.81E-12	1.95E-09
4334	420975.2	3734561	1.07E-08	4.87E-08	1.07E-10	5.95E-08	1.46E-09	6.66E-09	1.59E-11	8.14E-09	8.97E-10	3.06E-09	3.68E-12	3.96E-09
4335	420971.6	3734570	1.14E-08	5.22E-08	1.14E-10	6.37E-08	1.56E-09	7.13E-09	1.70E-11	8.71E-09	9.60E-10	3.28E-09	3.94E-12	4.24E-09
4336	420967.9	3734579	1.22E-08	5.56E-08	1.22E-10	6.79E-08	1.67E-09	7.60E-09	1.81E-11	9.29E-09	1.02E-09	3.49E-09	4.20E-12	4.52E-09
4337	420964.3	3734588	1.30E-08	5.93E-08	1.30E-10	7.24E-08	1.78E-09	8.10E-09	1.93E-11	9.90E-09	1.09E-09	3.73E-09	4.48E-12	4.82E-09
4338	420930.4	3734616	1.89E-08	8.65E-08	1.89E-10	1.06E-07	2.59E-09	1.18E-08	2.82E-11	1.44E-08	1.59E-09	5.44E-09	6.54E-12	7.03E-09
4339	420850.7	3734650	3.44E-08	1.57E-07	3.44E-10	1.92E-07	4.71E-09	2.15E-08	5.12E-11	2.63E-08	2.89E-09	9.88E-09	1.19E-11	1.28E-08
4340	421044.5	3734393	1.69E-09	7.73E-09	1.69E-11	9.44E-09	2.32E-10	1.06E-09	2.52E-12	1.29E-09	1.42E-10	4.86E-10	5.84E-13	6.29E-10
4341	421044.4	3734383	1.59E-09	7.27E-09	1.59E-11	8.88E-09	2.18E-10	9.95E-10	2.37E-12	1.22E-09	1.34E-10	4.57E-10	5.50E-13	5.92E-10
4342	421044.4	3734373	1.49E-09	6.79E-09	1.49E-11	8.29E-09	2.04E-10	9.29E-10	2.21E-12	1.13E-09	1.25E-10	4.27E-10	5.13E-13	5.52E-10
4343	421044.3	3734344	1.23E-09	5.61E-09	1.23E-11	6.85E-09	1.68E-10	7.68E-10	1.83E-12	9.38E-10	1.03E-10	3.53E-10	4.24E-13	4.56E-10
4344	421044.2	3734334	1.16E-09	5.29E-09	1.16E-11	6.46E-09	1.59E-10	7.24E-10	1.72E-12	8.85E-10	9.74E-11	3.33E-10	4.00E-13	4.31E-10
4345	421044.2	3734325	1.10E-09	5.01E-09	1.09E-11	6.11E-09	1.50E-10	6.85E-10	1.63E-12	8.36E-10	9.21E-11	3.15E-10	3.78E-13	4.07E-10
4346	421044.2	3734315	1.04E-09	4.75E-09	1.04E-11	5.80E-09	1.42E-10	6.49E-10	1.55E-12	7.93E-10	8.74E-11	2.98E-10	3.59E-13	3.86E-10
4347	421044.1	3734305	9.87E-10	4.51E-09	9.86E-12	5.51E-09	1.35E-10	6.17E-10	1.47E-12	7.54E-10	8.30E-11	2.84E-10	3.41E-13	3.67E-10
4348	421062.4	3734446	2.33E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.47E-12	1.78E-09	1.96E-10	6.70E-10	8.06E-13	8.68E-10
4349	421055.1	3734464	2.86E-09	1.31E-08	2.86E-11	1.59E-08	3.92E-10	1.79E-09	4.25E-12	2.18E-09	2.40E-10	8.21E-10	9.87E-13	1.06E-09
4350	421051.4	3734473	3.16E-09	1.44E-08	3.16E-11	1.76E-08	4.33E-10	1.97E-09	4.70E-12	2.41E-09	2.66E-10	9.07E-10	1.09E-12	1.17E-09
4351	421047.7	3734482	3.48E-09	1.59E-08	3.48E-11	1.94E-08	4.78E-10	2.18E-09	5.19E-12	2.66E-09	2.93E-10	1.00E-09	1.20E-12	1.30E-09
4352	421044.1	3734491	3.84E-09	1.75E-08	3.83E-11	2.14E-08	5.26E-10	2.40E-09	5.71E-12	2.93E-09	3.23E-10	1.10E-09	1.33E-12	1.43E-09
4353	421014.7	3734562	7.59E-09	3.47E-08	7.59E-11	4.24E-08	1.04E-09	4.75E-09	1.13E-11	5.80E-09	6.39E-10	2.18E-09	2.62E-12	2.82E-09
4354	420992.7	3734616	1.09E-08	4.96E-08	1.08E-10	6.06E-08	1.49E-09	6.78E-09	1.62E-11	8.29E-09	9.13E-10	3.12E-09	3.75E-12	4.03E-09
4355	420989	3734625	1.14E-08	5.19E-08	1.14E-10	6.34E-08	1.56E-09	7.10E-09	1.69E-11	8.67E-09	9.55E-10	3.26E-09	3.92E-12	4.22E-09
4356	420958.6	3734645	1.48E-08	6.78E-08	1.48E-10	8.28E-08	2.03E-09	9.27E-09	2.21E-11	1.13E-08	1.25E-09	4.26E-09	5.12E-12	5.51E-09
4357	420878.3	3734678	2.42E-08	1.11E-07	2.42E-10	1.35E-07	3.32E-09	1.52E-08	3.61E-11	1.85E-08	2.04E-09	6.96E-09	8.37E-12	9.01E-09
4358	421053	3734566	5.75E-09	2.63E-08	5.74E-11	3.21E-08	7.88E-10	3.59E-09	8.55E-12	4.39E-09	4.83E-10	1.65E-09	1.99E-12	2.14E-09
4359	421049.4	3734575	6.13E-09	2.80E-08	6.13E-11	3.42E-08	8.41E-10	3.83E-09	9.13E-12	4.69E-09	5.16E-10	1.76E-09	2.12E-12	2.28E-09
4360	421045.8	3734584	6.53E-09	2.98E-08	6.52E-11	3.64E-08	8.95E-10	4.08E-09	9.71E-12	4.98E-09	5.49E-10	1.88E-09	2.26E-12	2.43E-09
4361	421042.2	3734592	6.92E-09	3.16E-08	6.91E-11	3.86E-08	9.48E-10	4.32E-09	1.03E-11	5.28E-09	5.82E-10	1.99E-09	2.39E-12	2.57E-09
4362	420987.6	3734673	1.17E-08	5.36E-08	1.17E-10	6.54E-08	1.61E-09	7.33E-09	1.74E-11	8.95E-09	9.86E-10	3.37E-09	4.05E-12	4.36E-09
4363	420961.6	3734684	1.38E-08	6.31E-08	1.38E-10	7.71E-08	1.89E-09	8.63E-09	2.05E-11	1.05E-08	1.16E-09	3.97E-09	4.77E-12	5.13E-09
4364	420909.4	3734705	1.77E-08	8.10E-08	1.77E-10	9.89E-08	2.43E-09	1.11E-08	2.64E-11	1.35E-08	1.49E-09	5.09E-09	6.12E-12	6.59E-09
4365	421124.5	3734392	1.16E-09	5.30E-09	1.16E-11	6.48E-09	1.59E-10	7.25E-10	1.73E-12	8.86E-10	9.76E-11	3.33E-10	4.01E-13	4.31E-10
4366	421124.4	3734383	1.09E-09	4.98E-09	1.09E-11	6.08E-09	1.49E-10	6.81E-10	1.62E-12	8.32E-10	9.17E-11	3.13E-10	3.76E-13	4.05E-10
4367	421124.4	3734373	1.03E-09	4.69E-09	1.03E-11	5.73E-09	1.41E-10	6.41E-10	1.53E-12	7.83E-10	8.63E-11	2.95E-10	3.54E-13	3.81E-10
4368	421124.3	3734353	9.15E-10	4.18E-09	9.14E-12	5.11E-09	1.25E-10	5.72E-10	1.36E-12	6.99E-10	7.70E-11	2.63E-10	3.16E-13	3.40E-10
4369	421124.3	3734344	8.67E-10	3.96E-09	8.66E-12	4.84E-09	1.19E-10	5.42E-10	1.29E-12	6.62E-10	7.29E-11	2.49E-10	2.99E-13	3.22E-10
4370	421124.2	3734334	8.23E-10	3.76E-09	8.22E-12	4.59E-09	1.13E-10	5.14E-10	1.22E-12	6.28E-10	6.92E-11	2.36E-10	2.84E-13	3.06E-10
4371	421124.2	3734324	7.83E-10	3.58E-09	7.82E-12	4.37E-09	1.07E-10	4.89E-10	1.17E-12	5.98E-10	6.59E-11	2.25E-10	2.70E-13	2.91E-10
4372	421124.2	3734315	7.46E-10	3.41E-09	7.46E-12	4.17E-09	1.02E-10	4.67E-10	1.11E-12	5.70E-10	6.28E-11	2.14E-10	2.58E-13	2.77E-10
4373	421124.1	3734305	7.13E-10	3.26E-09	7.13E-12	3.98E-09	9.77E-11	4.46E-10	1.06E-12	5.45E-10	6.00E-11	2.05E-10	2.46E-13	2.65E-10
4374	421124.1	3734295	6.82E-10	3.12E-09	6.82E-12	3.81E-09	9.35E-11	4.27E-10	1.02E-12	5.21E-10	5.74E-11	1.96E-10	2.36E-13	2.54E-10
4375	421142.8	3734445	1.48E-09	6.75E-09	1.48E-11	8.24E-09	2.02E-10	9.23E-10	2.20E-12	1.13E-09	1.24E-10	4.24E-10	5.10E-13	5.49E-10
4376	421135.6	3734462	1.72E-09	7.85E-09	1.72E-11	9.59E-09	2.35E-10	1.07E-09	2.56E-12	1.31E-09	1.45E-10	4.94E-10	5.94E-13	6.39E-10

4377	421132	3734471	1.87E-09	8.56E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	2.79E-12	1.43E-09	1.58E-10	5.38E-10	6.47E-13	6.96E-10
4378	421128.4	3734480	2.04E-09	9.33E-09	2.04E-11	1.14E-08	2.80E-10	1.28E-09	3.04E-12	1.56E-09	1.72E-10	5.86E-10	7.05E-13	7.59E-10
4379	421124.8	3734489	2.22E-09	1.02E-08	2.22E-11	1.24E-08	3.05E-10	1.39E-09	3.31E-12	1.70E-09	1.87E-10	6.39E-10	7.68E-13	8.26E-10
4380	421088.8	3734576	4.69E-09	2.14E-08	4.68E-11	2.62E-08	6.42E-10	2.93E-09	6.97E-12	3.58E-09	3.94E-10	1.35E-09	1.62E-12	1.74E-09
4381	421085.2	3734585	4.99E-09	2.28E-08	4.98E-11	2.78E-08	6.84E-10	3.12E-09	7.42E-12	3.81E-09	4.20E-10	1.43E-09	1.72E-12	1.85E-09
4382	421081.6	3734594	5.29E-09	2.42E-08	5.28E-11	2.95E-08	7.25E-10	3.31E-09	7.87E-12	4.04E-09	4.45E-10	1.52E-09	1.83E-12	1.97E-09
4383	421078	3734602	5.58E-09	2.55E-08	5.58E-11	3.12E-08	7.65E-10	3.49E-09	8.31E-12	4.26E-09	4.70E-10	1.60E-09	1.93E-12	2.08E-09
4384	421074.4	3734611	5.87E-09	2.69E-08	5.87E-11	3.28E-08	8.05E-10	3.67E-09	8.74E-12	4.49E-09	4.94E-10	1.69E-09	2.03E-12	2.18E-09
4385	421033.2	3734694	8.47E-09	3.87E-08	8.46E-11	4.73E-08	1.16E-09	5.29E-09	1.26E-11	6.47E-09	7.12E-10	2.43E-09	2.93E-12	3.15E-09
4386	421024.5	3734697	8.94E-09	4.09E-08	8.94E-11	4.99E-08	1.23E-09	5.59E-09	1.33E-11	6.83E-09	7.53E-10	2.57E-09	3.09E-12	3.33E-09
4387	421015.7	3734701	9.44E-09	4.31E-08	9.43E-11	5.27E-08	1.29E-09	5.90E-09	1.40E-11	7.21E-09	7.94E-10	2.71E-09	3.26E-12	3.51E-09
4388	420989.5	3734712	1.09E-08	4.98E-08	1.09E-10	6.08E-08	1.49E-09	6.81E-09	1.62E-11	8.32E-09	9.17E-10	3.13E-09	3.76E-12	4.05E-09
4389	420980.7	3734716	1.14E-08	5.19E-08	1.14E-10	6.34E-08	1.56E-09	7.10E-09	1.69E-11	8.68E-09	9.56E-10	3.26E-09	3.93E-12	4.22E-09
4390	420972	3734719	1.18E-08	5.40E-08	1.18E-10	6.60E-08	1.62E-09	7.39E-09	1.76E-11	9.03E-09	9.94E-10	3.40E-09	4.08E-12	4.40E-09
4391	421164.3	3734353	7.83E-10	3.58E-09	7.82E-12	4.37E-09	1.07E-10	4.89E-10	1.17E-12	5.98E-10	6.58E-11	2.25E-10	2.70E-13	2.91E-10
4392	421164.3	3734344	7.43E-10	3.40E-09	7.43E-12	4.15E-09	1.02E-10	4.65E-10	1.11E-12	5.68E-10	6.25E-11	2.14E-10	2.57E-13	2.76E-10
4393	421164.2	3734334	7.07E-10	3.23E-09	7.07E-12	3.95E-09	9.69E-11	4.42E-10	1.05E-12	5.40E-10	5.95E-11	2.03E-10	2.44E-13	2.63E-10
4394	421164.2	3734324	6.74E-10	3.08E-09	6.74E-12	3.76E-09	9.24E-11	4.21E-10	1.00E-12	5.15E-10	5.67E-11	1.94E-10	2.33E-13	2.51E-10
4395	421164.2	3734315	6.44E-10	2.94E-09	6.43E-12	3.59E-09	8.82E-11	4.02E-10	9.58E-13	4.92E-10	5.42E-11	1.85E-10	2.22E-13	2.39E-10
4396	421164.1	3734305	6.16E-10	2.82E-09	6.16E-12	3.44E-09	8.44E-11	3.85E-10	9.17E-13	4.70E-10	5.18E-11	1.77E-10	2.13E-13	2.29E-10
4397	421164.1	3734295	5.91E-10	2.70E-09	5.90E-12	3.30E-09	8.10E-11	3.69E-10	8.79E-13	4.51E-10	4.97E-11	1.70E-10	2.04E-13	2.20E-10
4398	421182.7	3734445	1.26E-09	5.75E-09	1.26E-11	7.02E-09	1.72E-10	7.86E-10	1.87E-12	9.60E-10	1.06E-10	3.61E-10	4.34E-13	4.67E-10
4399	421175.5	3734463	1.45E-09	6.62E-09	1.45E-11	8.09E-09	1.99E-10	9.06E-10	2.16E-12	1.11E-09	1.22E-10	4.16E-10	5.01E-13	5.39E-10
4400	421171.8	3734471	1.56E-09	7.15E-09	1.56E-11	8.74E-09	2.15E-10	9.78E-10	2.33E-12	1.20E-09	1.32E-10	4.50E-10	5.41E-13	5.82E-10
4401	421168.2	3734480	1.69E-09	7.72E-09	1.69E-11	9.42E-09	2.31E-10	1.06E-09	2.51E-12	1.29E-09	1.42E-10	4.85E-10	5.83E-13	6.28E-10
4402	421164.6	3734489	1.82E-09	8.32E-09	1.82E-11	1.02E-08	2.49E-10	1.14E-09	2.71E-12	1.39E-09	1.53E-10	5.23E-10	6.28E-13	6.76E-10
4403	421132	3734568	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	5.05E-12	2.59E-09	2.85E-10	9.75E-10	1.17E-12	1.26E-09
4404	421128.3	3734577	3.62E-09	1.66E-08	3.62E-11	2.02E-08	4.97E-10	2.27E-09	5.39E-12	2.77E-09	3.05E-10	1.04E-09	1.25E-12	1.35E-09
4405	421124.7	3734586	3.86E-09	1.76E-08	3.85E-11	2.15E-08	5.29E-10	2.41E-09	5.74E-12	2.94E-09	3.24E-10	1.11E-09	1.33E-12	1.43E-09
4406	421121.1	3734595	4.09E-09	1.87E-08	4.09E-11	2.28E-08	5.61E-10	2.56E-09	6.09E-12	3.13E-09	3.44E-10	1.18E-09	1.41E-12	1.52E-09
4407	421117.5	3734604	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.94E-10	2.71E-09	6.45E-12	3.31E-09	3.64E-10	1.24E-09	1.50E-12	1.61E-09
4408	421061.5	3734722	7.08E-09	3.24E-08	7.08E-11	3.95E-08	9.71E-10	4.43E-09	1.05E-11	5.41E-09	5.96E-10	2.04E-09	2.45E-12	2.63E-09
4409	421052.7	3734726	7.43E-09	3.40E-08	7.43E-11	4.15E-08	1.02E-09	4.65E-09	1.11E-11	5.68E-09	6.25E-10	2.14E-09	2.57E-12	2.76E-09
4410	421043.9	3734729	7.78E-09	3.55E-08	7.77E-11	4.34E-08	1.07E-09	4.86E-09	1.16E-11	5.94E-09	6.54E-10	2.23E-09	2.69E-12	2.89E-09
4411	420964.6	3734762	1.05E-08	4.80E-08	1.05E-10	5.86E-08	1.44E-09	6.56E-09	1.56E-11	8.01E-09	8.83E-10	3.02E-09	3.63E-12	3.90E-09
4412	420955.8	3734766	1.08E-08	4.92E-08	1.08E-10	6.01E-08	1.48E-09	6.73E-09	1.60E-11	8.22E-09	9.06E-10	3.09E-09	3.72E-12	4.00E-09
4413	420947	3734770	1.10E-08	5.04E-08	1.10E-10	6.16E-08	1.51E-09	6.90E-09	1.64E-11	8.43E-09	9.28E-10	3.17E-09	3.81E-12	4.10E-09
4414	420938.2	3734773	1.13E-08	5.15E-08	1.13E-10	6.28E-08	1.54E-09	7.04E-09	1.68E-11	8.60E-09	9.47E-10	3.23E-09	3.89E-12	4.19E-09
4415	420929.4	3734777	1.14E-08	5.22E-08	1.14E-10	6.38E-08	1.57E-09	7.14E-09	1.70E-11	8.73E-09	9.61E-10	3.28E-09	3.95E-12	4.25E-09
4416	420920.6	3734781	1.15E-08	5.27E-08	1.15E-10	6.43E-08	1.58E-09	7.20E-09	1.72E-11	8.80E-09	9.69E-10	3.31E-09	3.98E-12	4.28E-09
4417	420911.8	3734784	1.16E-08	5.28E-08	1.15E-10	6.45E-08	1.58E-09	7.22E-09	1.72E-11	8.83E-09	9.72E-10	3.32E-09	3.99E-12	4.30E-09
4418	420903	3734788	1.15E-08	5.27E-08	1.15E-10	6.43E-08	1.58E-09	7.20E-09	1.71E-11	8.80E-09	9.69E-10	3.31E-09	3.98E-12	4.28E-09
4419	420894.2	3734792	1.14E-08	5.22E-08	1.14E-10	6.37E-08	1.56E-09	7.14E-09	1.70E-11	8.72E-09	9.60E-10	3.28E-09	3.94E-12	4.24E-09
4420	420885.4	3734795	1.12E-08	5.13E-08	1.12E-10	6.27E-08	1.54E-09	7.02E-09	1.67E-11	8.58E-09	9.45E-10	3.23E-09	3.88E-12	4.18E-09
4421	420876.6	3734799	1.10E-08	5.02E-08	1.10E-10	6.12E-08	1.50E-09	6.86E-09	1.63E-11	8.38E-09	9.23E-10	3.15E-09	3.79E-12	4.08E-09
4422	420867.8	3734802	1.06E-08	4.86E-08	1.06E-10	5.94E-08	1.46E-09	6.65E-09	1.58E-11	8.13E-09	8.95E-10	3.06E-09	3.68E-12	3.96E-09
4423	420859	3734806	1.02E-08	4.68E-08	1.02E-10	5.71E-08	1.40E-09	6.40E-09	1.52E-11	7.82E-09	8.61E-10	2.94E-09	3.54E-12	3.81E-09
4424	420850.1	3734810	9.77E-09	4.47E-08	9.76E-11	5.45E-08	1.34E-09	6.11E-09	1.45E-11	7.46E-09	8.22E-10	2.81E-09	3.38E-12	3.63E-09
4425	420841.3	3734813	9.26E-09	4.23E-08	9.26E-11	5.17E-08	1.27E-09	5.79E-09	1.38E-11	7.07E-09	7.79E-10	2.66E-09	3.20E-12	3.44E-09
4426	420832.5	3734817	8.72E-09	3.99E-08	8.71E-11	4.87E-08	1.19E-09	5.45E-09	1.30E-11	6.66E-09	7.33E-10	2.50E-09	3.01E-12	3.24E-09
4427	420823.7	3734821	8.15E-09	3.72E-08	8.14E-11	4.55E-08	1.12E-09	5.09E-09	1.21E-11	6.22E-09	6.85E-10	2.34E-09	2.81E-12	3.03E-09
4428	420814.9	3734824	7.56E-09	3.45E-08	7.55E-11	4.22E-08	1.04E-09	4.72E-09	1.12E-11	5.77E-09	6.36E-10	2.17E-09	2.61E-12	2.81E-09
4429	420806.1	3734828	6.96E-09	3.18E-08	6.96E-11	3.88E-08	9.54E-10	4.35E-09	1.04E-11	5.31E-09	5.85E-10	2.00E-09	2.40E-12	2.59E-09
4430	420797.3	3734832	6.37E-09	2.91E-08	6.36E-11	3.55E-08	8.73E-10	3.98E-09	9.48E-12	4.86E-09	5.36E-10	1.83E-09	2.20E-12	2.37E-09
4431	420788.5	3734835	5.79E-09	2.65E-08	5.78E-11	3.23E-08	7.93E-10	3.62E-09	8.62E-12	4.42E-09	4.87E-10	1.66E-09	2.00E-12	2.15E-09
4432	420779.7	3734839	5.23E-09	2.39E-08	5.23E-11	2.92E-08	7.17E-10	3.27E-09	7.79E-12	4.00E-09	4.40E-10	1.50E-09	1.81E-12	1.94E-09
4433	420770.9	3734843	4.71E-09	2.15E-08	4.71E-11	2.63E-08	6.45E-10	2.94E-09	7.01E-12	3.60E-09	3.96E-10	1.35E-09	1.63E-12	1.75E-09
4434	420762.1	3734846	4.21E-09	1.93E-08	4.21E-11	2.35E-08	5.78E-10	2.63E-09	6.27E-12	3.22E-09	3.54E-10	1.21E-09	1.46E-12	1.57E-09
4435	420753.3	3734850	3.75E-09	1.72E-08	3.75E-11	2.09E-08	5.14E-10	2.35E-09	5.58E-12	2.87E-09	3.16E-10	1.08E-09	1.30E-12	1.39E-09
4436	421204.5	3734392	8.34E-10	3.81E-09	8.33E-12	4.65E-09	1.14E-10	5.21E-10	1.24E-12	6.37E-10	7.01E-11	2.40E-10	2.88E-13	3.10E-10
4437	421204.4	3734382	7.89E-10	3.61E-09	7.89E-12	4.41E-09	1.08E-10	4.93E-10	1.17E-12	6.03E-10	6.64E-11	2.27E-10	2.73E-13	2.93E-10
4438	421204.4	3734373	7.48E-10	3.42E-09	7.48E-12	4.18E-09	1.03E-10	4.68E-10	1.11E-12	5.71E-10	6.29E-11	2.15E-10	2.59E-13	2.78E-10
4439	421204.3	3734353	6.75E-10	3.09E-09	6.74E-12	3.77E-09	9.25E-11	4.22E-10	1.00E-12	5.15E-10	5.68E-11	1.94E-10	2.33E-13	2.51E-10
4440	421204.3	3734343	6.42E-10	2.94E-09	6.42E-12	3.59E-09	8.81E-11	4.02E-10	9.56E-13	4.91E-10	5.40E-11	1.85E-10	2.22E-13	2.39E-10
4441	421204.2	3734334	6.13E-10	2.80E-09	6.13E-12	3.42E-09	8.40E-11	3.83E-10	9.12E-13	4.68E-10	5.16E-11	1.76E-10	2.12E-13	2.28E-10
4442	421204.2	3734324	5.86E-10	2.68E-09	5.85E-12	3.27E-09	8.03E-11	3.66E-10	8.72E-13	4.47E-10	4.93E-11	1.68E-10	2.02E-13	2.18E-10
4443	421204.2	3734314	5.61E-10	2.56E-09	5.60E-12	3.13E-09	7.68E-11	3.50E-10	8.34E-13	4.28E-10	4.72E-11	1.61E-10	1.94E-13	2.08E-10
4444	421204.1	3734305	5.38E-10	2.46E-09	5.37E-12	3.00E-09	7.37E-11	3.36E-10	8.00E-13	4.11E-10	4.52E-11	1.54E-10	1.86E-13	2.00E-10
4445	421204.1	3734295	5.16E-10	2.36E-09	5.16E-12	2.88E-09	7.08E-11	3.23E-10	7.69E-13	3.94E-10	4.34E-11	1.48E-10	1.78E-13	1.92E-10
4446	421222.6	3734445	1.06E-09	4.83E-09	1.06E-11	5.90E-09	1.45E-10	6.60E-10	1.57E-12	8.07E-10	8.89E-11	3.04E-10	3.65E-13	3.93E-10
4447	421215.3	3734463	1.21E-09	5.53E-09	1.21E-11	6.75E-09	1.66E-10	7.56E-10	1.80E-12	9.24E-10	1.02E-10	3.48E-10	4.18E-13	4.50E-10
4448	421211.6	3734472	1.30E-09	5.93E-09	1.30E-11	7.24E-09	1.78E-10	8.10E-10	1.93E-12	9.90E-10	1.09E-10	3.72E-10	4.48E-13	4.82E-10
4449	421208	3734481	1.39E-09	6.35E-09	1.39E-11	7.76E-09	1.90E-10	8.69E-10	2.07E-12	1.06E-09	1.17E-10	3.99E-10	4.80E-13	5.17E-10

4450	421204.4	3734489	1.49E-09	6.81E-09	1.49E-11	8.32E-09	2.04E-10	9.31E-10	2.22E-12	1.14E-09	1.25E-10	4.28E-10	5.15E-13	5.54E-10
4451	421171.6	3734569	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.63E-10	1.66E-09	3.95E-12	2.02E-09	2.23E-10	7.62E-10	9.16E-13	9.86E-10
4452	421167.9	3734578	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.86E-10	1.76E-09	4.19E-12	2.15E-09	2.37E-10	8.08E-10	9.72E-13	1.05E-09
4453	421164.3	3734587	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.10E-10	1.87E-09	4.46E-12	2.29E-09	2.52E-10	8.60E-10	1.03E-12	1.11E-09
4454	421160.6	3734596	3.18E-09	1.45E-08	3.18E-11	1.78E-08	4.36E-10	1.99E-09	4.73E-12	2.43E-09	2.68E-10	9.14E-10	1.10E-12	1.18E-09
4455	421157	3734605	3.37E-09	1.54E-08	3.37E-11	1.88E-08	4.62E-10	2.11E-09	5.01E-12	2.57E-09	2.83E-10	9.68E-10	1.16E-12	1.25E-09
4456	421153.3	3734614	3.56E-09	1.63E-08	3.55E-11	1.98E-08	4.87E-10	2.22E-09	5.29E-12	2.72E-09	2.99E-10	1.02E-09	1.23E-12	1.32E-09
4457	421149.7	3734622	3.74E-09	1.71E-08	3.74E-11	2.09E-08	5.13E-10	2.34E-09	5.57E-12	2.86E-09	3.15E-10	1.07E-09	1.29E-12	1.39E-09
4458	421146	3734631	3.92E-09	1.79E-08	3.92E-11	2.19E-08	5.38E-10	2.45E-09	5.84E-12	3.00E-09	3.30E-10	1.13E-09	1.36E-12	1.46E-09
4459	421142.4	3734640	4.11E-09	1.88E-08	4.10E-11	2.29E-08	5.63E-10	2.57E-09	6.11E-12	3.14E-09	3.45E-10	1.18E-09	1.42E-12	1.53E-09
4460	421138.8	3734649	4.27E-09	1.95E-08	4.27E-11	2.38E-08	5.86E-10	2.67E-09	6.36E-12	3.26E-09	3.59E-10	1.23E-09	1.48E-12	1.59E-09
4461	421135.1	3734658	4.43E-09	2.03E-08	4.43E-11	2.47E-08	6.07E-10	2.77E-09	6.60E-12	3.38E-09	3.73E-10	1.27E-09	1.53E-12	1.65E-09
4462	421131.5	3734667	4.58E-09	2.10E-08	4.58E-11	2.56E-08	6.28E-10	2.87E-09	6.82E-12	3.50E-09	3.86E-10	1.32E-09	1.58E-12	1.70E-09
4463	421127.8	3734676	4.74E-09	2.17E-08	4.74E-11	2.65E-08	6.50E-10	2.96E-09	7.06E-12	3.62E-09	3.99E-10	1.36E-09	1.64E-12	1.76E-09
4464	421124.2	3734685	4.90E-09	2.24E-08	4.89E-11	2.73E-08	6.71E-10	3.06E-09	7.29E-12	3.74E-09	4.12E-10	1.41E-09	1.69E-12	1.82E-09
4465	421120.5	3734693	5.04E-09	2.30E-08	5.04E-11	2.81E-08	6.91E-10	3.15E-09	7.50E-12	3.85E-09	4.24E-10	1.45E-09	1.74E-12	1.87E-09
4466	421089.8	3734750	5.97E-09	2.73E-08	5.97E-11	3.33E-08	8.19E-10	3.73E-09	8.89E-12	4.56E-09	5.02E-10	1.72E-09	2.06E-12	2.22E-09
4467	421081	3734754	6.22E-09	2.85E-08	6.22E-11	3.47E-08	8.53E-10	3.89E-09	9.26E-12	4.75E-09	5.24E-10	1.79E-09	2.15E-12	2.31E-09
4468	421072.1	3734758	6.48E-09	2.96E-08	6.47E-11	3.62E-08	8.88E-10	4.05E-09	9.64E-12	4.95E-09	5.45E-10	1.86E-09	2.24E-12	2.41E-09
4469	421045.5	3734769	7.15E-09	3.27E-08	7.15E-11	3.99E-08	9.80E-10	4.47E-09	1.06E-11	5.46E-09	6.01E-10	2.05E-09	2.47E-12	2.66E-09
4470	421036.7	3734772	7.37E-09	3.37E-08	7.37E-11	4.11E-08	1.01E-09	4.61E-09	1.10E-11	5.63E-09	6.20E-10	2.12E-09	2.55E-12	2.74E-09
4471	421027.8	3734776	7.59E-09	3.47E-08	7.58E-11	4.24E-08	1.04E-09	4.74E-09	1.13E-11	5.79E-09	6.38E-10	2.18E-09	2.62E-12	2.82E-09
4472	420992.4	3734791	8.42E-09	3.85E-08	8.41E-11	4.70E-08	1.15E-09	5.26E-09	1.25E-11	6.43E-09	7.08E-10	2.42E-09	2.91E-12	3.13E-09
4473	420983.5	3734794	8.62E-09	3.94E-08	8.61E-11	4.81E-08	1.18E-09	5.39E-09	1.28E-11	6.58E-09	7.25E-10	2.48E-09	2.98E-12	3.20E-09
4474	420974.7	3734798	8.80E-09	4.02E-08	8.80E-11	4.91E-08	1.21E-09	5.50E-09	1.31E-11	6.72E-09	7.41E-10	2.53E-09	3.04E-12	3.27E-09
4475	420965.8	3734802	8.96E-09	4.10E-08	8.96E-11	5.00E-08	1.23E-09	5.60E-09	1.33E-11	6.85E-09	7.54E-10	2.58E-09	3.10E-12	3.33E-09
4476	420957	3734805	9.10E-09	4.16E-08	9.09E-11	5.08E-08	1.25E-09	5.69E-09	1.35E-11	6.95E-09	7.66E-10	2.61E-09	3.14E-12	3.38E-09
4477	420948.1	3734809	9.21E-09	4.21E-08	9.21E-11	5.14E-08	1.26E-09	5.76E-09	1.37E-11	7.03E-09	7.75E-10	2.65E-09	3.18E-12	3.42E-09
4478	420939.3	3734813	9.28E-09	4.24E-08	9.28E-11	5.18E-08	1.27E-09	5.80E-09	1.38E-11	7.09E-09	7.81E-10	2.67E-09	3.21E-12	3.45E-09
4479	420930.4	3734816	9.31E-09	4.26E-08	9.30E-11	5.20E-08	1.28E-09	5.82E-09	1.39E-11	7.11E-09	7.83E-10	2.67E-09	3.22E-12	3.46E-09
4480	420921.6	3734820	9.27E-09	4.24E-08	9.27E-11	5.18E-08	1.27E-09	5.80E-09	1.38E-11	7.08E-09	7.80E-10	2.66E-09	3.20E-12	3.45E-09
4481	420912.7	3734824	9.19E-09	4.20E-08	9.18E-11	5.13E-08	1.26E-09	5.74E-09	1.37E-11	7.02E-09	7.73E-10	2.64E-09	3.17E-12	3.42E-09
4482	420903.8	3734827	9.05E-09	4.14E-08	9.04E-11	5.05E-08	1.24E-09	5.66E-09	1.35E-11	6.91E-09	7.61E-10	2.60E-09	3.13E-12	3.36E-09
4483	420895	3734831	8.85E-09	4.05E-08	8.85E-11	4.94E-08	1.21E-09	5.54E-09	1.32E-11	6.76E-09	7.45E-10	2.54E-09	3.06E-12	3.29E-09
4484	420886.1	3734835	8.61E-09	3.94E-08	8.60E-11	4.80E-08	1.18E-09	5.38E-09	1.28E-11	6.57E-09	7.24E-10	2.47E-09	2.97E-12	3.20E-09
4485	420877.3	3734839	8.32E-09	3.80E-08	8.31E-11	4.64E-08	1.14E-09	5.20E-09	1.24E-11	6.35E-09	7.00E-10	2.39E-09	2.87E-12	3.09E-09
4486	420868.4	3734842	7.98E-09	3.65E-08	7.98E-11	4.46E-08	1.09E-09	4.99E-09	1.19E-11	6.10E-09	6.72E-10	2.29E-09	2.76E-12	2.97E-09
4487	420859.6	3734846	7.62E-09	3.48E-08	7.61E-11	4.25E-08	1.04E-09	4.76E-09	1.13E-11	5.82E-09	6.41E-10	2.19E-09	2.63E-12	2.83E-09
4488	420850.7	3734850	7.22E-09	3.30E-08	7.21E-11	4.03E-08	9.89E-10	4.51E-09	1.07E-11	5.51E-09	6.07E-10	2.07E-09	2.49E-12	2.68E-09
4489	420841.9	3734853	6.80E-09	3.11E-08	6.79E-11	3.79E-08	9.32E-10	4.25E-09	1.01E-11	5.19E-09	5.72E-10	1.95E-09	2.35E-12	2.53E-09
4490	420833	3734857	6.36E-09	2.91E-08	6.36E-11	3.55E-08	8.72E-10	3.98E-09	9.47E-12	4.86E-09	5.35E-10	1.83E-09	2.20E-12	2.36E-09
4491	420824.2	3734861	5.92E-09	2.70E-08	5.91E-11	3.30E-08	8.11E-10	3.70E-09	8.81E-12	4.52E-09	4.98E-10	1.70E-09	2.04E-12	2.20E-09
4492	420815.3	3734864	5.47E-09	2.50E-08	5.47E-11	3.05E-08	7.50E-10	3.42E-09	8.14E-12	4.18E-09	4.60E-10	1.57E-09	1.89E-12	2.03E-09
4493	420806.4	3734868	5.03E-09	2.30E-08	5.02E-11	2.81E-08	6.89E-10	3.14E-09	7.48E-12	3.84E-09	4.23E-10	1.44E-09	1.74E-12	1.87E-09
4494	420797.6	3734872	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.30E-10	2.87E-09	6.84E-12	3.51E-09	3.87E-10	1.32E-09	1.59E-12	1.71E-09
4495	420788.7	3734875	4.18E-09	1.91E-08	4.18E-11	2.34E-08	5.73E-10	2.62E-09	6.23E-12	3.20E-09	3.52E-10	1.20E-09	1.45E-12	1.56E-09
4496	420779.9	3734879	3.79E-09	1.73E-08	3.79E-11	2.12E-08	5.20E-10	2.37E-09	5.64E-12	2.89E-09	3.19E-10	1.09E-09	1.31E-12	1.41E-09
4497	420771	3734883	3.41E-09	1.56E-08	3.40E-11	1.90E-08	4.67E-10	2.13E-09	5.07E-12	2.60E-09	2.86E-10	9.78E-10	1.18E-12	1.27E-09
4498	420762.2	3734886	3.05E-09	1.40E-08	3.05E-11	1.70E-08	4.18E-10	1.91E-09	4.54E-12	2.33E-09	2.57E-10	8.77E-10	1.05E-12	1.13E-09
4499	420753.3	3734890	2.73E-09	1.25E-08	2.73E-11	1.52E-08	3.74E-10	1.71E-09	4.07E-12	2.09E-09	2.30E-10	7.85E-10	9.44E-13	1.02E-09
4500	421262.5	3734445	8.98E-10	4.11E-09	8.98E-12	5.01E-09	1.23E-10	5.62E-10	1.34E-12	6.86E-10	7.56E-11	2.58E-10	3.10E-13	3.34E-10
4501	421258.8	3734454	9.58E-10	4.38E-09	9.57E-12	5.35E-09	1.31E-10	5.99E-10	1.43E-12	7.31E-10	8.06E-11	2.75E-10	3.31E-13	3.56E-10
4502	421255.2	3734463	1.02E-09	4.67E-09	1.02E-11	5.70E-09	1.40E-10	6.39E-10	1.52E-12	7.80E-10	8.59E-11	2.93E-10	3.53E-13	3.80E-10
4503	421251.5	3734472	1.09E-09	4.98E-09	1.09E-11	6.08E-09	1.49E-10	6.81E-10	1.62E-12	8.32E-10	9.16E-11	3.13E-10	3.76E-13	4.05E-10
4504	421207.6	3734579	2.25E-09	1.03E-08	2.25E-11	1.26E-08	3.09E-10	1.41E-09	3.35E-12	1.72E-09	1.89E-10	6.47E-10	7.78E-13	8.37E-10
4505	421203.9	3734588	2.38E-09	1.09E-08	2.38E-11	1.33E-08	3.27E-10	1.49E-09	3.55E-12	1.82E-09	2.00E-10	6.85E-10	8.23E-13	8.86E-10
4506	421200.2	3734597	2.52E-09	1.15E-08	2.52E-11	1.41E-08	3.45E-10	1.57E-09	3.75E-12	1.92E-09	2.12E-10	7.24E-10	8.70E-13	9.36E-10
4507	421196.6	3734606	2.67E-09	1.22E-08	2.66E-11	1.49E-08	3.65E-10	1.67E-09	3.97E-12	2.04E-09	2.24E-10	7.66E-10	9.21E-13	9.91E-10
4508	421192.9	3734614	2.81E-09	1.29E-08	2.81E-11	1.57E-08	3.85E-10	1.76E-09	4.19E-12	2.15E-09	2.37E-10	8.08E-10	9.72E-13	1.05E-09
4509	421189.2	3734623	2.96E-09	1.35E-08	2.96E-11	1.65E-08	4.05E-10	1.85E-09	4.40E-12	2.26E-09	2.49E-10	8.50E-10	1.02E-12	1.10E-09
4510	421185.6	3734632	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.25E-10	1.94E-09	4.62E-12	2.37E-09	2.61E-10	8.91E-10	1.07E-12	1.15E-09
4511	421181.9	3734641	3.25E-09	1.49E-08	3.25E-11	1.81E-08	4.45E-10	2.03E-09	4.84E-12	2.48E-09	2.73E-10	9.33E-10	1.12E-12	1.21E-09
4512	421178.3	3734650	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.65E-10	2.12E-09	5.05E-12	2.59E-09	2.86E-10	9.75E-10	1.17E-12	1.26E-09
4513	421174.6	3734659	3.54E-09	1.62E-08	3.54E-11	1.97E-08	4.85E-10	2.21E-09	5.27E-12	2.70E-09	2.98E-10	1.02E-09	1.22E-12	1.32E-09
4514	421170.9	3734668	3.68E-09	1.68E-08	3.67E-11	2.05E-08	5.04E-10	2.30E-09	5.47E-12	2.81E-09	3.09E-10	1.06E-09	1.27E-12	1.37E-09
4515	421167.3	3734677	3.82E-09	1.74E-08	3.81E-11	2.13E-08	5.23E-10	2.39E-09	5.68E-12	2.91E-09	3.21E-10	1.10E-09	1.32E-12	1.42E-09
4516	421163.6	3734686	3.95E-09	1.81E-08	3.95E-11	2.21E-08	5.42E-10	2.47E-09	5.88E-12	3.02E-09	3.33E-10	1.14E-09	1.37E-12	1.47E-09
4517	421160	3734695	4.09E-09	1.87E-08	4.08E-11	2.28E-08	5.60E-10	2.55E-09	6.08E-12	3.12E-09	3.44E-10	1.17E-09	1.41E-12	1.52E-09
4518	421156.3	3734704	4.21E-09	1.93E-08	4.21E-11	2.35E-08	5.77E-10	2.63E-09	6.27E-12	3.22E-09	3.54E-10	1.21E-09	1.45E-12	1.57E-09
4519	421152.6	3734712	4.33E-09	1.98E-08	4.33E-11	2.42E-08	5.93E-10	2.71E-09	6.44E-12	3.31E-09	3.64E-10	1.24E-09	1.50E-12	1.61E-09
4520	421149	3734721	4.44E-09	2.03E-08	4.44E-11	2.48E-08	6.09E-10	2.78E-09	6.61E-12	3.39E-09	3.74E-10	1.28E-09	1.53E-12	1.65E-09
4521	421073.6	3734797	6.01E-09	2.75E-08	6.01E-11	3.35E-08	8.24E-10	3.76E-09	8.94E-12	4.59E-09	5.06E-10	1.73E-09	2.08E-12	2.23E-09
4522	421064.7	3734801	6.19E-09	2.83E-08	6.19E-11	3.45E-08	8.48E-10	3.87E-09	9.21E-12	4.73E-09	5.21E-10	1.78E-09	2.14E-12	2.30E-09

4523	421055.8	3734804	6.37E-09	2.91E-08	6.37E-11	3.55E-08	8.73E-10	3.98E-09	9.48E-12	4.86E-09	5.36E-10	1.83E-09	2.20E-12	2.37E-09
4524	421020.2	3734819	6.97E-09	3.18E-08	6.96E-11	3.89E-08	9.55E-10	4.35E-09	1.04E-11	5.32E-09	5.86E-10	2.00E-09	2.41E-12	2.59E-09
4525	420993.6	3734830	7.33E-09	3.35E-08	7.33E-11	4.09E-08	1.01E-09	4.59E-09	1.09E-11	5.60E-09	6.17E-10	2.11E-09	2.53E-12	2.73E-09
4526	420984.7	3734834	7.44E-09	3.40E-08	7.44E-11	4.15E-08	1.02E-09	4.65E-09	1.11E-11	5.68E-09	6.26E-10	2.14E-09	2.57E-12	2.77E-09
4527	420975.8	3734838	7.53E-09	3.44E-08	7.53E-11	4.20E-08	1.03E-09	4.71E-09	1.12E-11	5.75E-09	6.34E-10	2.16E-09	2.60E-12	2.80E-09
4528	420966.9	3734841	7.60E-09	3.47E-08	7.59E-11	4.24E-08	1.04E-09	4.75E-09	1.13E-11	5.80E-09	6.39E-10	2.18E-09	2.63E-12	2.83E-09
4529	420958	3734845	7.63E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.77E-09	1.14E-11	5.83E-09	6.42E-10	2.19E-09	2.64E-12	2.84E-09
4530	420949.1	3734849	7.64E-09	3.49E-08	7.63E-11	4.26E-08	1.05E-09	4.78E-09	1.14E-11	5.83E-09	6.43E-10	2.19E-09	2.64E-12	2.84E-09
4531	420940.2	3734852	7.61E-09	3.48E-08	7.60E-11	4.25E-08	1.04E-09	4.76E-09	1.13E-11	5.81E-09	6.40E-10	2.19E-09	2.63E-12	2.83E-09
4532	420931.3	3734856	7.54E-09	3.45E-08	7.54E-11	4.21E-08	1.03E-09	4.71E-09	1.12E-11	5.76E-09	6.34E-10	2.17E-09	2.61E-12	2.80E-09
4533	420922.4	3734860	7.44E-09	3.40E-08	7.43E-11	4.15E-08	1.02E-09	4.65E-09	1.11E-11	5.68E-09	6.26E-10	2.14E-09	2.57E-12	2.76E-09
4534	420913.5	3734863	7.29E-09	3.33E-08	7.29E-11	4.07E-08	1.00E-09	4.56E-09	1.09E-11	5.57E-09	6.13E-10	2.10E-09	2.52E-12	2.71E-09
4535	420904.6	3734867	7.11E-09	3.25E-08	7.11E-11	3.97E-08	9.75E-10	4.45E-09	1.06E-11	5.43E-09	5.98E-10	2.04E-09	2.46E-12	2.64E-09
4536	420895.7	3734871	6.89E-09	3.15E-08	6.89E-11	3.85E-08	9.45E-10	4.31E-09	1.03E-11	5.26E-09	5.80E-10	1.98E-09	2.38E-12	2.56E-09
4537	420886.8	3734875	6.64E-09	3.04E-08	6.64E-11	3.71E-08	9.10E-10	4.15E-09	9.89E-12	5.07E-09	5.59E-10	1.91E-09	2.30E-12	2.47E-09
4538	420877.9	3734878	6.37E-09	2.91E-08	6.36E-11	3.55E-08	8.73E-10	3.98E-09	9.48E-12	4.86E-09	5.36E-10	1.83E-09	2.20E-12	2.37E-09
4539	420869	3734882	6.06E-09	2.77E-08	6.06E-11	3.39E-08	8.31E-10	3.79E-09	9.03E-12	4.63E-09	5.10E-10	1.74E-09	2.10E-12	2.25E-09
4540	420860.1	3734886	5.74E-09	2.63E-08	5.74E-11	3.21E-08	7.87E-10	3.59E-09	8.55E-12	4.39E-09	4.83E-10	1.65E-09	1.98E-12	2.13E-09
4541	420851.2	3734889	5.41E-09	2.47E-08	5.40E-11	3.02E-08	7.41E-10	3.38E-09	8.05E-12	4.13E-09	4.55E-10	1.55E-09	1.87E-12	2.01E-09
4542	420842.3	3734893	5.06E-09	2.31E-08	5.06E-11	2.82E-08	6.94E-10	3.16E-09	7.53E-12	3.87E-09	4.26E-10	1.45E-09	1.75E-12	1.88E-09
4543	420833.4	3734897	4.71E-09	2.15E-08	4.71E-11	2.63E-08	6.46E-10	2.95E-09	7.01E-12	3.60E-09	3.96E-10	1.35E-09	1.63E-12	1.75E-09
4544	420824.5	3734900	4.36E-09	2.00E-08	4.36E-11	2.44E-08	5.98E-10	2.73E-09	6.50E-12	3.33E-09	3.67E-10	1.25E-09	1.51E-12	1.62E-09
4545	420815.6	3734904	4.02E-09	1.84E-08	4.02E-11	2.24E-08	5.51E-10	2.51E-09	5.99E-12	3.07E-09	3.38E-10	1.16E-09	1.39E-12	1.50E-09
4546	420806.7	3734908	3.69E-09	1.69E-08	3.69E-11	2.06E-08	5.06E-10	2.31E-09	5.50E-12	2.82E-09	3.11E-10	1.06E-09	1.28E-12	1.37E-09
4547	420797.8	3734912	3.39E-09	1.55E-08	3.39E-11	1.89E-08	4.64E-10	2.12E-09	5.04E-12	2.59E-09	2.85E-10	9.73E-10	1.17E-12	1.26E-09
4548	420788.9	3734915	3.10E-09	1.42E-08	3.10E-11	1.73E-08	4.25E-10	1.94E-09	4.61E-12	2.37E-09	2.61E-10	8.91E-10	1.07E-12	1.15E-09
4549	420780	3734919	2.83E-09	1.29E-08	2.83E-11	1.58E-08	3.88E-10	1.77E-09	4.21E-12	2.16E-09	2.38E-10	8.13E-10	9.78E-13	1.05E-09
4550	420771.1	3734923	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.82E-12	1.96E-09	2.16E-10	7.37E-10	8.86E-13	9.53E-10
4551	420762.2	3734926	2.32E-09	1.06E-08	2.32E-11	1.29E-08	3.18E-10	1.45E-09	3.45E-12	1.77E-09	1.95E-10	6.66E-10	8.01E-13	8.62E-10
4552	420753.4	3734930	2.09E-09	9.57E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	3.12E-12	1.60E-09	1.76E-10	6.01E-10	7.23E-13	7.78E-10
4553	421284.5	3734392	6.22E-10	2.84E-09	6.22E-12	3.47E-09	8.52E-11	3.89E-10	9.26E-13	4.75E-10	5.23E-11	1.79E-10	2.15E-13	2.31E-10
4554	421284.4	3734382	5.92E-10	2.71E-09	5.91E-12	3.30E-09	8.11E-11	3.70E-10	8.81E-13	4.52E-10	4.98E-11	1.70E-10	2.04E-13	2.20E-10
4555	421284.4	3734372	5.64E-10	2.58E-09	5.63E-12	3.15E-09	7.73E-11	3.52E-10	8.39E-13	4.31E-10	4.74E-11	1.62E-10	1.95E-13	2.10E-10
4556	421284.3	3734363	5.40E-10	2.47E-09	5.40E-12	3.01E-09	7.40E-11	3.38E-10	8.04E-13	4.12E-10	4.54E-11	1.55E-10	1.87E-13	2.01E-10
4557	421284.3	3734353	5.18E-10	2.37E-09	5.18E-12	2.89E-09	7.11E-11	3.24E-10	7.72E-13	3.96E-10	4.36E-11	1.49E-10	1.79E-13	1.93E-10
4558	421284.3	3734343	4.97E-10	2.27E-09	4.97E-12	2.77E-09	6.81E-11	3.11E-10	7.40E-13	3.80E-10	4.18E-11	1.43E-10	1.72E-13	1.85E-10
4559	421284.2	3734333	4.76E-10	2.18E-09	4.76E-12	2.66E-09	6.53E-11	2.98E-10	7.09E-13	3.64E-10	4.01E-11	1.37E-10	1.65E-13	1.77E-10
4560	421284.2	3734324	4.57E-10	2.09E-09	4.57E-12	2.55E-09	6.27E-11	2.86E-10	6.80E-13	3.49E-10	3.85E-11	1.31E-10	1.58E-13	1.70E-10
4561	421284.2	3734314	4.39E-10	2.01E-09	4.39E-12	2.45E-09	6.02E-11	2.75E-10	6.54E-13	3.35E-10	3.69E-11	1.26E-10	1.52E-13	1.63E-10
4562	421284.1	3734304	4.23E-10	1.93E-09	4.22E-12	2.36E-09	5.79E-11	2.64E-10	6.29E-13	3.23E-10	3.56E-11	1.21E-10	1.46E-13	1.57E-10
4563	421284.1	3734295	4.07E-10	1.86E-09	4.07E-12	2.27E-09	5.58E-11	2.55E-10	6.06E-13	3.11E-10	3.43E-11	1.17E-10	1.41E-13	1.51E-10
4564	421302.4	3734445	7.73E-10	3.53E-09	7.72E-12	4.31E-09	1.06E-10	4.83E-10	1.15E-12	5.90E-10	6.50E-11	2.22E-10	2.67E-13	2.87E-10
4565	421298.7	3734454	8.21E-10	3.75E-09	8.20E-12	4.58E-09	1.12E-10	5.13E-10	1.22E-12	6.27E-10	6.90E-11	2.36E-10	2.84E-13	3.05E-10
4566	421295	3734463	8.72E-10	3.99E-09	8.71E-12	4.87E-09	1.20E-10	5.45E-10	1.30E-12	6.66E-10	7.33E-11	2.51E-10	3.01E-13	3.24E-10
4567	421291.4	3734472	9.26E-10	4.24E-09	9.26E-12	5.17E-09	1.27E-10	5.79E-10	1.38E-12	7.07E-10	7.79E-11	2.66E-10	3.20E-13	3.44E-10
4568	421287.7	3734481	9.85E-10	4.50E-09	9.84E-12	5.50E-09	1.35E-10	6.16E-10	1.47E-12	7.52E-10	8.28E-11	2.83E-10	3.40E-13	3.66E-10
4569	421284	3734490	1.05E-09	4.79E-09	1.05E-11	5.84E-09	1.43E-10	6.54E-10	1.56E-12	7.99E-10	8.81E-11	3.01E-10	3.62E-13	3.89E-10
4570	421239.9	3734597	2.09E-09	9.58E-09	2.09E-11	1.17E-08	2.87E-10	1.31E-09	3.12E-12	1.60E-09	1.76E-10	6.02E-10	7.24E-13	7.79E-10
4571	421236.2	3734606	2.21E-09	1.01E-08	2.21E-11	1.23E-08	3.03E-10	1.38E-09	3.29E-12	1.69E-09	1.86E-10	6.35E-10	7.63E-13	8.21E-10
4572	421232.5	3734615	2.32E-09	1.06E-08	2.32E-11	1.30E-08	3.18E-10	1.45E-09	3.46E-12	1.77E-09	1.95E-10	6.67E-10	8.02E-13	8.63E-10
4573	421228.9	3734624	2.43E-09	1.11E-08	2.43E-11	1.36E-08	3.34E-10	1.52E-09	3.62E-12	1.86E-09	2.05E-10	6.99E-10	8.41E-13	9.05E-10
4574	421225.2	3734633	2.54E-09	1.16E-08	2.54E-11	1.42E-08	3.49E-10	1.59E-09	3.79E-12	1.94E-09	2.14E-10	7.31E-10	8.79E-13	9.46E-10
4575	421221.5	3734642	2.65E-09	1.21E-08	2.65E-11	1.48E-08	3.64E-10	1.66E-09	3.95E-12	2.03E-09	2.23E-10	7.62E-10	9.17E-13	9.86E-10
4576	421217.8	3734651	2.76E-09	1.26E-08	2.76E-11	1.54E-08	3.79E-10	1.73E-09	4.11E-12	2.11E-09	2.32E-10	7.94E-10	9.55E-13	1.03E-09
4577	421214.2	3734660	2.87E-09	1.31E-08	2.87E-11	1.60E-08	3.94E-10	1.80E-09	4.28E-12	2.20E-09	2.42E-10	8.26E-10	9.93E-13	1.07E-09
4578	421210.5	3734669	2.99E-09	1.37E-08	2.99E-11	1.67E-08	4.10E-10	1.87E-09	4.45E-12	2.28E-09	2.51E-10	8.58E-10	1.03E-12	1.11E-09
4579	421206.8	3734678	3.09E-09	1.41E-08	3.09E-11	1.73E-08	4.24E-10	1.93E-09	4.60E-12	2.36E-09	2.60E-10	8.89E-10	1.07E-12	1.15E-09
4580	421203.1	3734687	3.19E-09	1.46E-08	3.19E-11	1.78E-08	4.38E-10	2.00E-09	4.75E-12	2.44E-09	2.69E-10	9.18E-10	1.10E-12	1.19E-09
4581	421199.5	3734696	3.29E-09	1.51E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	4.90E-12	2.51E-09	2.77E-10	9.46E-10	1.14E-12	1.22E-09
4582	421195.8	3734705	3.40E-09	1.55E-08	3.40E-11	1.90E-08	4.66E-10	2.13E-09	5.06E-12	2.60E-09	2.86E-10	9.77E-10	1.17E-12	1.26E-09
4583	421192.1	3734714	3.51E-09	1.60E-08	3.51E-11	1.96E-08	4.81E-10	2.19E-09	5.22E-12	2.68E-09	2.95E-10	1.01E-09	1.21E-12	1.30E-09
4584	421188.4	3734723	3.61E-09	1.65E-08	3.61E-11	2.02E-08	4.95E-10	2.26E-09	5.37E-12	2.76E-09	3.04E-10	1.04E-09	1.25E-12	1.34E-09
4585	421184.7	3734731	3.71E-09	1.69E-08	3.70E-11	2.07E-08	5.08E-10	2.32E-09	5.52E-12	2.83E-09	3.12E-10	1.06E-09	1.28E-12	1.38E-09
4586	421181.1	3734740	3.80E-09	1.74E-08	3.80E-11	2.12E-08	5.21E-10	2.37E-09	5.65E-12	2.90E-09	3.19E-10	1.09E-09	1.31E-12	1.41E-09
4587	421177.4	3734749	3.88E-09	1.78E-08	3.88E-11	2.17E-08	5.33E-10	2.43E-09	5.78E-12	2.97E-09	3.27E-10	1.12E-09	1.34E-12	1.44E-09
4588	421173.7	3734758	3.96E-09	1.81E-08	3.96E-11	2.21E-08	5.43E-10	2.48E-09	5.90E-12	3.03E-09	3.33E-10	1.14E-09	1.37E-12	1.47E-09
4589	421092.8	3734829	5.19E-09	2.37E-08	5.19E-11	2.90E-08	7.12E-10	3.25E-09	7.73E-12	3.96E-09	4.37E-10	1.49E-09	1.79E-12	1.93E-09
4590	421083.9	3734833	5.32E-09	2.43E-08	5.32E-11	2.97E-08	7.29E-10	3.33E-09	7.92E-12	4.06E-09	4.48E-10	1.53E-09	1.84E-12	1.98E-09
4591	421048.2	3734848	5.85E-09	2.68E-08	5.85E-11	3.27E-08	8.03E-10	3.66E-09	8.72E-12	4.47E-09	4.93E-10	1.68E-09	2.02E-12	2.18E-09
4592	421039.2	3734851	5.96E-09	2.72E-08	5.96E-11	3.33E-08	8.17E-10	3.73E-09	8.87E-12	4.55E-09	5.01E-10	1.71E-09	2.06E-12	2.22E-09
4593	421030.3	3734855	6.06E-09	2.77E-08	6.05E-11	3.38E-08	8.30E-10	3.79E-09	9.02E-12	4.63E-09	5.10E-10	1.74E-09	2.09E-12	2.25E-09
4594	421021.4	3734859	6.15E-09	2.81E-08	6.14E-11	3.43E-08	8.43E-10	3.84E-09	9.15E-12	4.69E-09	5.17E-10	1.77E-09	2.12E-12	2.29E-09
4595	420994.6	3734870	6.35E-09	2.90E-08	6.35E-11	3.55E-08	8.71E-10	3.97E-09	9.46E-12	4.85E-09	5.34E-10	1.83E-09	2.20E-12	2.36E-09

4596	420985.6	3734874	6.39E-09	2.92E-08	6.39E-11	3.57E-08	8.76E-10	3.99E-09	9.51E-12	4.88E-09	5.38E-10	1.84E-09	2.21E-12	2.38E-09
4597	420976.7	3734877	6.41E-09	2.93E-08	6.41E-11	3.58E-08	8.79E-10	4.01E-09	9.54E-12	4.90E-09	5.39E-10	1.84E-09	2.21E-12	2.38E-09
4598	420967.8	3734881	6.41E-09	2.93E-08	6.40E-11	3.58E-08	8.78E-10	4.00E-09	9.54E-12	4.89E-09	5.39E-10	1.84E-09	2.21E-12	2.38E-09
4599	420958.8	3734885	6.38E-09	2.92E-08	6.37E-11	3.56E-08	8.74E-10	3.99E-09	9.49E-12	4.87E-09	5.36E-10	1.83E-09	2.20E-12	2.37E-09
4600	420949.9	3734888	6.32E-09	2.89E-08	6.31E-11	3.53E-08	8.66E-10	3.95E-09	9.40E-12	4.83E-09	5.32E-10	1.82E-09	2.18E-12	2.35E-09
4601	420941	3734892	6.23E-09	2.85E-08	6.23E-11	3.48E-08	8.54E-10	3.90E-09	9.28E-12	4.76E-09	5.24E-10	1.79E-09	2.15E-12	2.32E-09
4602	420932	3734896	6.12E-09	2.80E-08	6.11E-11	3.41E-08	8.38E-10	3.82E-09	9.10E-12	4.67E-09	5.14E-10	1.76E-09	2.11E-12	2.27E-09
4603	420923.1	3734900	5.97E-09	2.73E-08	5.97E-11	3.33E-08	8.18E-10	3.73E-09	8.89E-12	4.56E-09	5.02E-10	1.72E-09	2.06E-12	2.22E-09
4604	420914.2	3734903	5.80E-09	2.65E-08	5.80E-11	3.24E-08	7.95E-10	3.63E-09	8.63E-12	4.43E-09	4.88E-10	1.67E-09	2.00E-12	2.16E-09
4605	420905.2	3734907	5.61E-09	2.56E-08	5.60E-11	3.13E-08	7.69E-10	3.51E-09	8.35E-12	4.28E-09	4.72E-10	1.61E-09	1.94E-12	2.09E-09
4606	420896.3	3734911	5.39E-09	2.46E-08	5.39E-11	3.01E-08	7.39E-10	3.37E-09	8.02E-12	4.12E-09	4.54E-10	1.55E-09	1.86E-12	2.00E-09
4607	420887.4	3734914	5.15E-09	2.35E-08	5.15E-11	2.87E-08	7.06E-10	3.22E-09	7.67E-12	3.93E-09	4.33E-10	1.48E-09	1.78E-12	1.91E-09
4608	420878.4	3734918	4.90E-09	2.24E-08	4.89E-11	2.73E-08	6.71E-10	3.06E-09	7.29E-12	3.74E-09	4.12E-10	1.41E-09	1.69E-12	1.82E-09
4609	420869.5	3734922	4.63E-09	2.12E-08	4.63E-11	2.59E-08	6.35E-10	2.90E-09	6.90E-12	3.54E-09	3.90E-10	1.33E-09	1.60E-12	1.72E-09
4610	420860.6	3734925	4.37E-09	2.00E-08	4.37E-11	2.44E-08	5.99E-10	2.73E-09	6.50E-12	3.34E-09	3.67E-10	1.26E-09	1.51E-12	1.62E-09
4611	420851.6	3734929	4.10E-09	1.87E-08	4.10E-11	2.29E-08	5.62E-10	2.56E-09	6.10E-12	3.13E-09	3.45E-10	1.18E-09	1.42E-12	1.52E-09
4612	420842.7	3734933	3.83E-09	1.75E-08	3.83E-11	2.14E-08	5.25E-10	2.39E-09	5.70E-12	2.93E-09	3.22E-10	1.10E-09	1.32E-12	1.42E-09
4613	420833.8	3734937	3.56E-09	1.63E-08	3.56E-11	1.99E-08	4.88E-10	2.23E-09	5.30E-12	2.72E-09	3.00E-10	1.02E-09	1.23E-12	1.32E-09
4614	420824.8	3734940	3.30E-09	1.51E-08	3.30E-11	1.84E-08	4.52E-10	2.06E-09	4.91E-12	2.52E-09	2.78E-10	9.48E-10	1.14E-12	1.23E-09
4615	420815.9	3734944	3.05E-09	1.39E-08	3.05E-11	1.70E-08	4.18E-10	1.91E-09	4.54E-12	2.33E-09	2.56E-10	8.76E-10	1.05E-12	1.13E-09
4616	420807	3734948	2.81E-09	1.28E-08	2.81E-11	1.57E-08	3.85E-10	1.76E-09	4.18E-12	2.15E-09	2.36E-10	8.07E-10	9.71E-13	1.04E-09
4617	420798	3734951	2.58E-09	1.18E-08	2.58E-11	1.44E-08	3.54E-10	1.62E-09	3.85E-12	1.97E-09	2.17E-10	7.42E-10	8.93E-13	9.61E-10
4618	420789.1	3734955	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	3.53E-12	1.81E-09	1.99E-10	6.81E-10	8.19E-13	8.81E-10
4619	420780.2	3734959	2.17E-09	9.90E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	3.22E-12	1.65E-09	1.82E-10	6.22E-10	7.48E-13	8.05E-10
4620	420771.3	3734963	1.97E-09	9.02E-09	1.97E-11	1.10E-08	2.70E-10	1.23E-09	2.94E-12	1.51E-09	1.66E-10	5.67E-10	6.81E-13	7.33E-10
4621	420762.3	3734966	1.79E-09	8.19E-09	1.79E-11	1.00E-08	2.46E-10	1.12E-09	2.67E-12	1.37E-09	1.51E-10	5.15E-10	6.19E-13	6.66E-10
4622	420753.4	3734970	1.63E-09	7.44E-09	1.63E-11	9.08E-09	2.23E-10	1.02E-09	2.42E-12	1.24E-09	1.37E-10	4.68E-10	5.62E-13	6.05E-10
4623	421324.5	3734392	5.47E-10	2.50E-09	5.47E-12	3.06E-09	7.50E-11	3.42E-10	8.15E-13	4.18E-10	4.61E-11	1.57E-10	1.89E-13	2.04E-10
4624	421324.4	3734382	5.23E-10	2.39E-09	5.23E-12	2.92E-09	7.17E-11	3.27E-10	7.79E-13	4.00E-10	4.40E-11	1.50E-10	1.81E-13	1.95E-10
4625	421324.4	3734372	5.01E-10	2.29E-09	5.00E-12	2.79E-09	6.86E-11	3.13E-10	7.45E-13	3.82E-10	4.21E-11	1.44E-10	1.73E-13	1.86E-10
4626	421324.3	3734362	4.81E-10	2.20E-09	4.80E-12	2.68E-09	6.59E-11	3.00E-10	7.15E-13	3.67E-10	4.04E-11	1.38E-10	1.66E-13	1.79E-10
4627	421324.3	3734353	4.61E-10	2.11E-09	4.61E-12	2.58E-09	6.33E-11	2.89E-10	6.87E-13	3.52E-10	3.88E-11	1.33E-10	1.59E-13	1.72E-10
4628	421324.3	3734343	4.43E-10	2.02E-09	4.42E-12	2.47E-09	6.07E-11	2.77E-10	6.59E-13	3.38E-10	3.72E-11	1.27E-10	1.53E-13	1.65E-10
4629	421324.2	3734333	4.25E-10	1.94E-09	4.25E-12	2.37E-09	5.83E-11	2.66E-10	6.33E-13	3.25E-10	3.58E-11	1.22E-10	1.47E-13	1.58E-10
4630	421324.2	3734324	4.08E-10	1.87E-09	4.08E-12	2.28E-09	5.60E-11	2.55E-10	6.08E-13	3.12E-10	3.44E-11	1.17E-10	1.41E-13	1.52E-10
4631	421324.2	3734314	3.92E-10	1.79E-09	3.91E-12	2.19E-09	5.37E-11	2.45E-10	5.83E-13	2.99E-10	3.29E-11	1.13E-10	1.35E-13	1.46E-10
4632	421324.1	3734304	3.77E-10	1.72E-09	3.77E-12	2.10E-09	5.17E-11	2.36E-10	5.61E-13	2.88E-10	3.17E-11	1.08E-10	1.30E-13	1.40E-10
4633	421324.1	3734295	3.64E-10	1.66E-09	3.63E-12	2.03E-09	4.98E-11	2.27E-10	5.41E-13	2.78E-10	3.06E-11	1.04E-10	1.26E-13	1.35E-10
4634	421342.8	3734444	6.67E-10	3.05E-09	6.66E-12	3.72E-09	9.14E-11	4.17E-10	9.92E-13	5.09E-10	5.61E-11	1.92E-10	2.30E-13	2.48E-10
4635	421339.1	3734453	7.04E-10	3.22E-09	7.04E-12	3.93E-09	9.66E-11	4.40E-10	1.05E-12	5.38E-10	5.93E-11	2.02E-10	2.43E-13	2.62E-10
4636	421335.5	3734462	7.45E-10	3.41E-09	7.44E-12	4.16E-09	1.02E-10	4.66E-10	1.11E-12	5.69E-10	6.27E-11	2.14E-10	2.57E-13	2.77E-10
4637	421331.9	3734471	7.88E-10	3.60E-09	7.87E-12	4.40E-09	1.08E-10	4.92E-10	1.17E-12	6.02E-10	6.63E-11	2.26E-10	2.72E-13	2.93E-10
4638	421328.3	3734479	8.33E-10	3.81E-09	8.33E-12	4.65E-09	1.14E-10	5.21E-10	1.24E-12	6.37E-10	7.01E-11	2.39E-10	2.88E-13	3.10E-10
4639	421324.7	3734488	8.82E-10	4.03E-09	8.82E-12	4.92E-09	1.21E-10	5.51E-10	1.31E-12	6.74E-10	7.42E-11	2.53E-10	3.05E-13	3.28E-10
4640	421321.1	3734497	9.34E-10	4.27E-09	9.33E-12	5.21E-09	1.28E-10	5.84E-10	1.39E-12	7.13E-10	7.85E-11	2.68E-10	3.23E-13	3.47E-10
4641	421277.7	3734603	1.77E-09	8.11E-09	1.77E-11	9.90E-09	2.43E-10	1.11E-09	2.64E-12	1.35E-09	1.49E-10	5.09E-10	6.13E-13	6.59E-10
4642	421274.1	3734611	1.87E-09	8.54E-09	1.87E-11	1.04E-08	2.56E-10	1.17E-09	2.78E-12	1.43E-09	1.57E-10	5.36E-10	6.45E-13	6.94E-10
4643	421270.4	3734620	1.96E-09	8.98E-09	1.96E-11	1.10E-08	2.69E-10	1.23E-09	2.92E-12	1.50E-09	1.65E-10	5.64E-10	6.78E-13	7.30E-10
4644	421266.8	3734629	2.06E-09	9.40E-09	2.06E-11	1.15E-08	2.82E-10	1.29E-09	3.06E-12	1.57E-09	1.73E-10	5.91E-10	7.11E-13	7.65E-10
4645	421263.2	3734638	2.15E-09	9.82E-09	2.15E-11	1.20E-08	2.95E-10	1.34E-09	3.20E-12	1.64E-09	1.81E-10	6.17E-10	7.43E-13	7.99E-10
4646	421259.6	3734647	2.24E-09	1.03E-08	2.24E-11	1.25E-08	3.07E-10	1.40E-09	3.34E-12	1.71E-09	1.89E-10	6.44E-10	7.75E-13	8.34E-10
4647	421256	3734655	2.33E-09	1.07E-08	2.33E-11	1.30E-08	3.20E-10	1.46E-09	3.47E-12	1.78E-09	1.96E-10	6.70E-10	8.06E-13	8.67E-10
4648	421252.4	3734664	2.42E-09	1.11E-08	2.42E-11	1.35E-08	3.31E-10	1.51E-09	3.60E-12	1.85E-09	2.03E-10	6.95E-10	8.35E-13	8.99E-10
4649	421248.8	3734673	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	3.72E-12	1.91E-09	2.10E-10	7.19E-10	8.64E-13	9.30E-10
4650	421245.1	3734682	2.58E-09	1.18E-08	2.58E-11	1.44E-08	3.54E-10	1.62E-09	3.85E-12	1.97E-09	2.17E-10	7.43E-10	8.93E-13	9.61E-10
4651	421241.5	3734691	2.67E-09	1.22E-08	2.66E-11	1.49E-08	3.65E-10	1.67E-09	3.97E-12	2.04E-09	2.24E-10	7.66E-10	9.21E-13	9.91E-10
4652	421237.9	3734699	2.75E-09	1.26E-08	2.74E-11	1.53E-08	3.76E-10	1.72E-09	4.09E-12	2.10E-09	2.31E-10	7.89E-10	9.49E-13	1.02E-09
4653	421234.3	3734708	2.82E-09	1.29E-08	2.82E-11	1.57E-08	3.87E-10	1.76E-09	4.20E-12	2.15E-09	2.37E-10	8.11E-10	9.75E-13	1.05E-09
4654	421230.7	3734717	2.90E-09	1.32E-08	2.89E-11	1.62E-08	3.97E-10	1.81E-09	4.31E-12	2.21E-09	2.44E-10	8.32E-10	1.00E-12	1.08E-09
4655	421174.9	3734835	3.66E-09	1.67E-08	3.66E-11	2.04E-08	5.02E-10	2.29E-09	5.45E-12	2.80E-09	3.08E-10	1.05E-09	1.27E-12	1.36E-09
4656	421166.1	3734839	3.76E-09	1.72E-08	3.76E-11	2.10E-08	5.16E-10	2.35E-09	5.60E-12	2.87E-09	3.16E-10	1.08E-09	1.30E-12	1.40E-09
4657	421157.3	3734842	3.86E-09	1.76E-08	3.85E-11	2.15E-08	5.29E-10	2.41E-09	5.74E-12	2.94E-09	3.24E-10	1.11E-09	1.33E-12	1.43E-09
4658	421131	3734853	4.16E-09	1.90E-08	4.16E-11	2.32E-08	5.71E-10	2.60E-09	6.20E-12	3.18E-09	3.50E-10	1.20E-09	1.44E-12	1.55E-09
4659	421078.3	3734875	4.87E-09	2.23E-08	4.87E-11	2.72E-08	6.68E-10	3.05E-09	7.26E-12	3.72E-09	4.10E-10	1.40E-09	1.68E-12	1.81E-09
4660	421069.5	3734879	4.98E-09	2.28E-08	4.98E-11	2.78E-08	6.83E-10	3.12E-09	7.42E-12	3.81E-09	4.19E-10	1.43E-09	1.72E-12	1.85E-09
4661	421060.7	3734882	5.09E-09	2.33E-08	5.08E-11	2.84E-08	6.97E-10	3.18E-09	7.57E-12	3.89E-09	4.28E-10	1.46E-09	1.76E-12	1.89E-09
4662	421051.9	3734886	5.19E-09	2.37E-08	5.18E-11	2.89E-08	7.11E-10	3.24E-09	7.72E-12	3.96E-09	4.36E-10	1.49E-09	1.79E-12	1.93E-09
4663	421043.1	3734890	5.26E-09	2.41E-08	5.26E-11	2.94E-08	7.21E-10	3.29E-09	7.83E-12	4.02E-09	4.43E-10	1.51E-09	1.82E-12	1.96E-09
4664	421034.3	3734893	5.33E-09	2.44E-08	5.32E-11	2.97E-08	7.30E-10	3.33E-09	7.93E-12	4.07E-09	4.48E-10	1.53E-09	1.84E-12	1.98E-09
4665	421025.6	3734897	5.38E-09	2.46E-08	5.38E-11	3.00E-08	7.38E-10	3.37E-09	8.01E-12	4.11E-09	4.53E-10	1.55E-09	1.86E-12	2.00E-09
4666	421016.8	3734901	5.42E-09	2.48E-08	5.42E-11	3.03E-08	7.44E-10	3.39E-09	8.08E-12	4.14E-09	4.56E-10	1.56E-09	1.87E-12	2.02E-09
4667	420990.4	3734912	5.45E-09	2.49E-08	5.44E-11	3.04E-08	7.47E-10	3.41E-09	8.11E-12	4.16E-09	4.58E-10	1.57E-09	1.88E-12	2.03E-09
4668	420981.6	3734915	5.43E-09	2.48E-08	5.42E-11	3.03E-08	7.44E-10	3.39E-09	8.08E-12	4.14E-09	4.57E-10	1.56E-09	1.88E-12	2.02E-09

4669	420972.8	3734919	5.39E-09	2.46E-08	5.38E-11	3.01E-08	7.38E-10	3.37E-09	8.02E-12	4.11E-09	4.53E-10	1.55E-09	1.86E-12	2.00E-09
4670	420964.1	3734922	5.33E-09	2.44E-08	5.32E-11	2.97E-08	7.30E-10	3.33E-09	7.93E-12	4.07E-09	4.48E-10	1.53E-09	1.84E-12	1.98E-09
4671	420955.3	3734926	5.25E-09	2.40E-08	5.24E-11	2.93E-08	7.19E-10	3.28E-09	7.81E-12	4.01E-09	4.41E-10	1.51E-09	1.81E-12	1.95E-09
4672	420946.5	3734930	5.14E-09	2.35E-08	5.14E-11	2.87E-08	7.05E-10	3.22E-09	7.66E-12	3.93E-09	4.33E-10	1.48E-09	1.78E-12	1.91E-09
4673	420937.7	3734933	5.02E-09	2.30E-08	5.02E-11	2.80E-08	6.88E-10	3.14E-09	7.47E-12	3.84E-09	4.22E-10	1.44E-09	1.74E-12	1.87E-09
4674	420928.9	3734937	4.88E-09	2.23E-08	4.88E-11	2.73E-08	6.69E-10	3.05E-09	7.27E-12	3.73E-09	4.11E-10	1.40E-09	1.69E-12	1.82E-09
4675	420920.1	3734941	4.72E-09	2.16E-08	4.72E-11	2.63E-08	6.47E-10	2.95E-09	7.03E-12	3.60E-09	3.97E-10	1.36E-09	1.63E-12	1.75E-09
4676	420911.4	3734944	4.54E-09	2.08E-08	4.54E-11	2.53E-08	6.22E-10	2.84E-09	6.76E-12	3.47E-09	3.82E-10	1.30E-09	1.57E-12	1.69E-09
4677	420902.6	3734948	4.35E-09	1.99E-08	4.35E-11	2.43E-08	5.96E-10	2.72E-09	6.47E-12	3.32E-09	3.66E-10	1.25E-09	1.50E-12	1.62E-09
4678	420893.8	3734952	4.15E-09	1.90E-08	4.15E-11	2.32E-08	5.69E-10	2.60E-09	6.18E-12	3.17E-09	3.49E-10	1.19E-09	1.44E-12	1.54E-09
4679	420885	3734955	3.95E-09	1.81E-08	3.95E-11	2.21E-08	5.42E-10	2.47E-09	5.89E-12	3.02E-09	3.33E-10	1.14E-09	1.37E-12	1.47E-09
4680	420876.2	3734959	3.75E-09	1.72E-08	3.75E-11	2.09E-08	5.14E-10	2.35E-09	5.59E-12	2.87E-09	3.16E-10	1.08E-09	1.30E-12	1.40E-09
4681	420867.4	3734963	3.55E-09	1.62E-08	3.54E-11	1.98E-08	4.86E-10	2.22E-09	5.28E-12	2.71E-09	2.98E-10	1.02E-09	1.23E-12	1.32E-09
4682	420858.7	3734966	3.33E-09	1.52E-08	3.33E-11	1.86E-08	4.57E-10	2.08E-09	4.96E-12	2.55E-09	2.81E-10	9.58E-10	1.15E-12	1.24E-09
4683	420849.9	3734970	3.12E-09	1.43E-08	3.12E-11	1.74E-08	4.28E-10	1.95E-09	4.65E-12	2.39E-09	2.63E-10	8.98E-10	1.08E-12	1.16E-09
4684	420841.1	3734974	2.92E-09	1.33E-08	2.91E-11	1.63E-08	4.00E-10	1.82E-09	4.34E-12	2.23E-09	2.45E-10	8.38E-10	1.01E-12	1.08E-09
4685	420832.3	3734977	2.72E-09	1.24E-08	2.72E-11	1.52E-08	3.73E-10	1.70E-09	4.05E-12	2.08E-09	2.29E-10	7.81E-10	9.39E-13	1.01E-09
4686	420823.5	3734981	2.52E-09	1.15E-08	2.52E-11	1.41E-08	3.46E-10	1.58E-09	3.76E-12	1.93E-09	2.12E-10	7.25E-10	8.72E-13	9.39E-10
4687	420814.7	3734985	2.34E-09	1.07E-08	2.34E-11	1.30E-08	3.20E-10	1.46E-09	3.48E-12	1.78E-09	1.97E-10	6.71E-10	8.08E-13	8.69E-10
4688	420805.9	3734988	2.16E-09	9.86E-09	2.16E-11	1.20E-08	2.96E-10	1.35E-09	3.21E-12	1.65E-09	1.81E-10	6.20E-10	7.45E-13	8.02E-10
4689	420797.2	3734992	1.99E-09	9.08E-09	1.99E-11	1.11E-08	2.72E-10	1.24E-09	2.96E-12	1.52E-09	1.67E-10	5.71E-10	6.87E-13	7.39E-10
4690	420788.4	3734995	1.83E-09	8.36E-09	1.83E-11	1.02E-08	2.51E-10	1.14E-09	2.72E-12	1.40E-09	1.54E-10	5.26E-10	6.32E-13	6.80E-10
4691	420779.6	3734999	1.68E-09	7.70E-09	1.68E-11	9.40E-09	2.31E-10	1.05E-09	2.51E-12	1.29E-09	1.42E-10	4.84E-10	5.82E-13	6.26E-10
4692	420770.8	3735003	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.11E-10	9.64E-10	2.29E-12	1.18E-09	1.30E-10	4.43E-10	5.33E-13	5.73E-10
4693	420762	3735006	1.41E-09	6.45E-09	1.41E-11	7.88E-09	1.93E-10	8.82E-10	2.10E-12	1.08E-09	1.19E-10	4.05E-10	4.88E-13	5.25E-10
4694	420753.2	3735010	1.29E-09	5.90E-09	1.29E-11	7.20E-09	1.77E-10	8.07E-10	1.92E-12	9.85E-10	1.09E-10	3.71E-10	4.46E-13	4.80E-10
4695	421364.5	3734391	4.88E-10	2.23E-09	4.87E-12	2.72E-09	6.68E-11	3.05E-10	7.26E-13	3.72E-10	4.10E-11	1.40E-10	1.68E-13	1.81E-10
4696	421364.4	3734382	4.67E-10	2.14E-09	4.67E-12	2.61E-09	6.41E-11	2.92E-10	6.96E-13	3.57E-10	3.93E-11	1.34E-10	1.61E-13	1.74E-10
4697	421364.4	3734372	4.48E-10	2.05E-09	4.48E-12	2.50E-09	6.14E-11	2.80E-10	6.67E-13	3.42E-10	3.77E-11	1.29E-10	1.55E-13	1.67E-10
4698	421364.3	3734362	4.30E-10	1.96E-09	4.29E-12	2.40E-09	5.89E-11	2.69E-10	6.39E-13	3.28E-10	3.61E-11	1.23E-10	1.48E-13	1.60E-10
4699	421364.3	3734353	4.12E-10	1.88E-09	4.12E-12	2.30E-09	5.65E-11	2.58E-10	6.13E-13	3.15E-10	3.47E-11	1.18E-10	1.42E-13	1.53E-10
4700	421364.3	3734343	3.95E-10	1.81E-09	3.95E-12	2.21E-09	5.42E-11	2.47E-10	5.88E-13	3.02E-10	3.32E-11	1.14E-10	1.37E-13	1.47E-10
4701	421364.2	3734333	3.80E-10	1.74E-09	3.80E-12	2.12E-09	5.21E-11	2.37E-10	5.65E-13	2.90E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
4702	421364.2	3734323	3.65E-10	1.67E-09	3.65E-12	2.04E-09	5.00E-11	2.28E-10	5.43E-13	2.79E-10	3.07E-11	1.05E-10	1.26E-13	1.36E-10
4703	421364.2	3734314	3.51E-10	1.61E-09	3.51E-12	1.96E-09	4.82E-11	2.20E-10	5.23E-13	2.68E-10	2.96E-11	1.01E-10	1.21E-13	1.31E-10
4704	421364.1	3734304	3.39E-10	1.55E-09	3.39E-12	1.89E-09	4.65E-11	2.12E-10	5.05E-13	2.59E-10	2.85E-11	9.74E-11	1.17E-13	1.26E-10
4705	421364.1	3734294	3.28E-10	1.50E-09	3.27E-12	1.83E-09	4.49E-11	2.05E-10	4.88E-13	2.50E-10	2.76E-11	9.41E-11	1.13E-13	1.22E-10
4706	421382.7	3734444	5.85E-10	2.68E-09	5.85E-12	3.27E-09	8.02E-11	3.66E-10	8.71E-13	4.47E-10	4.92E-11	1.68E-10	2.02E-13	2.18E-10
4707	421379	3734453	6.16E-10	2.82E-09	6.16E-12	3.44E-09	8.45E-11	3.85E-10	9.17E-13	4.71E-10	5.18E-11	1.77E-10	2.13E-13	2.29E-10
4708	421375.4	3734462	6.49E-10	2.97E-09	6.49E-12	3.62E-09	8.90E-11	4.06E-10	9.66E-13	4.96E-10	5.46E-11	1.87E-10	2.24E-13	2.41E-10
4709	421371.8	3734471	6.84E-10	3.13E-09	6.84E-12	3.82E-09	9.38E-11	4.28E-10	1.02E-12	5.23E-10	5.76E-11	1.97E-10	2.36E-13	2.54E-10
4710	421331.8	3734568	1.20E-09	5.51E-09	1.20E-11	6.72E-09	1.65E-10	7.53E-10	1.79E-12	9.20E-10	1.01E-10	3.46E-10	4.16E-13	4.48E-10
4711	421328.2	3734577	1.26E-09	5.76E-09	1.26E-11	7.04E-09	1.73E-10	7.88E-10	1.88E-12	9.63E-10	1.06E-10	3.62E-10	4.36E-13	4.69E-10
4712	421324.6	3734586	1.32E-09	6.05E-09	1.32E-11	7.39E-09	1.81E-10	8.27E-10	1.97E-12	1.01E-09	1.11E-10	3.80E-10	4.57E-13	4.92E-10
4713	421320.9	3734594	1.39E-09	6.35E-09	1.39E-11	7.75E-09	1.90E-10	8.68E-10	2.07E-12	1.06E-09	1.17E-10	3.99E-10	4.80E-13	5.16E-10
4714	421317.3	3734603	1.46E-09	6.66E-09	1.45E-11	8.13E-09	2.00E-10	9.10E-10	2.17E-12	1.11E-09	1.22E-10	4.18E-10	5.03E-13	5.41E-10
4715	421313.7	3734612	1.53E-09	6.98E-09	1.53E-11	8.53E-09	2.09E-10	9.55E-10	2.27E-12	1.17E-09	1.29E-10	4.39E-10	5.28E-13	5.68E-10
4716	421310	3734621	1.61E-09	7.34E-09	1.61E-11	8.97E-09	2.20E-10	1.00E-09	2.39E-12	1.23E-09	1.35E-10	4.62E-10	5.55E-13	5.97E-10
4717	421306.4	3734630	1.69E-09	7.71E-09	1.69E-11	9.42E-09	2.31E-10	1.05E-09	2.51E-12	1.29E-09	1.42E-10	4.85E-10	5.83E-13	6.27E-10
4718	421302.8	3734639	1.77E-09	8.09E-09	1.77E-11	9.88E-09	2.43E-10	1.11E-09	2.63E-12	1.35E-09	1.49E-10	5.08E-10	6.11E-13	6.58E-10
4719	421281	3734692	2.23E-09	1.02E-08	2.23E-11	1.25E-08	3.06E-10	1.40E-09	3.32E-12	1.70E-09	1.88E-10	6.41E-10	7.71E-13	8.30E-10
4720	421277.4	3734700	2.30E-09	1.05E-08	2.30E-11	1.28E-08	3.16E-10	1.44E-09	3.43E-12	1.76E-09	1.94E-10	6.61E-10	7.95E-13	8.56E-10
4721	421273.7	3734709	2.37E-09	1.08E-08	2.37E-11	1.32E-08	3.25E-10	1.48E-09	3.53E-12	1.81E-09	1.99E-10	6.81E-10	8.19E-13	8.81E-10
4722	421270.1	3734718	2.44E-09	1.11E-08	2.44E-11	1.36E-08	3.34E-10	1.52E-09	3.63E-12	1.86E-09	2.05E-10	7.00E-10	8.42E-13	9.06E-10
4723	421266.5	3734727	2.50E-09	1.14E-08	2.50E-11	1.40E-08	3.43E-10	1.56E-09	3.72E-12	1.91E-09	2.10E-10	7.19E-10	8.64E-13	9.30E-10
4724	421262.8	3734736	2.56E-09	1.17E-08	2.56E-11	1.43E-08	3.51E-10	1.60E-09	3.81E-12	1.96E-09	2.16E-10	7.36E-10	8.86E-13	9.53E-10
4725	421259.2	3734745	2.62E-09	1.20E-08	2.62E-11	1.46E-08	3.59E-10	1.64E-09	3.90E-12	2.00E-09	2.21E-10	7.53E-10	9.06E-13	9.75E-10
4726	421255.6	3734753	2.68E-09	1.22E-08	2.68E-11	1.49E-08	3.67E-10	1.67E-09	3.99E-12	2.05E-09	2.25E-10	7.69E-10	9.25E-13	9.96E-10
4727	421203.2	3734863	3.16E-09	1.44E-08	3.16E-11	1.76E-08	4.33E-10	1.97E-09	4.70E-12	2.41E-09	2.66E-10	9.08E-10	1.09E-12	1.17E-09
4728	421194.4	3734867	3.24E-09	1.48E-08	3.24E-11	1.81E-08	4.44E-10	2.02E-09	4.82E-12	2.47E-09	2.72E-10	9.30E-10	1.12E-12	1.20E-09
4729	421185.5	3734871	3.31E-09	1.51E-08	3.31E-11	1.85E-08	4.54E-10	2.07E-09	4.93E-12	2.53E-09	2.79E-10	9.52E-10	1.14E-12	1.23E-09
4730	421159.1	3734882	3.54E-09	1.62E-08	3.54E-11	1.98E-08	4.85E-10	2.21E-09	5.27E-12	2.70E-09	2.98E-10	1.02E-09	1.22E-12	1.32E-09
4731	421150.3	3734885	3.62E-09	1.65E-08	3.62E-11	2.02E-08	4.96E-10	2.26E-09	5.39E-12	2.76E-09	3.04E-10	1.04E-09	1.25E-12	1.35E-09
4732	421141.4	3734889	3.70E-09	1.69E-08	3.69E-11	2.06E-08	5.07E-10	2.31E-09	5.50E-12	2.82E-09	3.11E-10	1.06E-09	1.28E-12	1.37E-09
4733	421088.5	3734911	4.28E-09	1.96E-08	4.28E-11	2.39E-08	5.87E-10	2.68E-09	6.37E-12	3.27E-09	3.60E-10	1.23E-09	1.48E-12	1.59E-09
4734	421079.7	3734914	4.38E-09	2.00E-08	4.38E-11	2.45E-08	6.01E-10	2.74E-09	6.52E-12	3.35E-09	3.69E-10	1.26E-09	1.51E-12	1.63E-09
4735	421070.9	3734918	4.46E-09	2.04E-08	4.45E-11	2.49E-08	6.11E-10	2.79E-09	6.63E-12	3.40E-09	3.75E-10	1.28E-09	1.54E-12	1.66E-09
4736	421062	3734922	4.52E-09	2.07E-08	4.52E-11	2.53E-08	6.20E-10	2.83E-09	6.73E-12	3.46E-09	3.81E-10	1.30E-09	1.56E-12	1.68E-09
4737	421053.2	3734925	4.58E-09	2.10E-08	4.58E-11	2.56E-08	6.28E-10	2.87E-09	6.82E-12	3.50E-09	3.86E-10	1.32E-09	1.58E-12	1.70E-09
4738	421044.4	3734929	4.63E-09	2.12E-08	4.63E-11	2.58E-08	6.34E-10	2.89E-09	6.89E-12	3.53E-09	3.89E-10	1.33E-09	1.60E-12	1.72E-09
4739	421035.6	3734933	4.66E-09	2.13E-08	4.66E-11	2.60E-08	6.39E-10	2.91E-09	6.94E-12	3.56E-09	3.92E-10	1.34E-09	1.61E-12	1.73E-09
4740	421026.8	3734936	4.68E-09	2.14E-08	4.68E-11	2.61E-08	6.41E-10	2.93E-09	6.97E-12	3.57E-09	3.94E-10	1.34E-09	1.62E-12	1.74E-09
4741	421017.9	3734940	4.68E-09	2.14E-08	4.68E-11	2.61E-08	6.42E-10	2.93E-09	6.97E-12	3.58E-09	3.94E-10	1.35E-09	1.62E-12	1.74E-09

4742	420991.5	3734951	4.60E-09	2.10E-08	4.60E-11	2.57E-08	6.31E-10	2.88E-09	6.85E-12	3.52E-09	3.87E-10	1.32E-09	1.59E-12	1.71E-09
4743	420982.6	3734955	4.55E-09	2.08E-08	4.55E-11	2.54E-08	6.24E-10	2.85E-09	6.78E-12	3.48E-09	3.83E-10	1.31E-09	1.57E-12	1.69E-09
4744	420973.8	3734958	4.48E-09	2.05E-08	4.48E-11	2.50E-08	6.15E-10	2.80E-09	6.68E-12	3.43E-09	3.77E-10	1.29E-09	1.55E-12	1.67E-09
4745	420965	3734962	4.40E-09	2.01E-08	4.40E-11	2.46E-08	6.03E-10	2.75E-09	6.55E-12	3.36E-09	3.70E-10	1.26E-09	1.52E-12	1.64E-09
4746	420956.2	3734966	4.30E-09	1.97E-08	4.30E-11	2.40E-08	5.90E-10	2.69E-09	6.40E-12	3.29E-09	3.62E-10	1.24E-09	1.49E-12	1.60E-09
4747	420947.4	3734969	4.19E-09	1.92E-08	4.19E-11	2.34E-08	5.74E-10	2.62E-09	6.24E-12	3.20E-09	3.52E-10	1.20E-09	1.45E-12	1.56E-09
4748	420938.5	3734973	4.06E-09	1.86E-08	4.06E-11	2.27E-08	5.57E-10	2.54E-09	6.05E-12	3.10E-09	3.42E-10	1.17E-09	1.40E-12	1.51E-09
4749	420929.7	3734977	3.93E-09	1.80E-08	3.92E-11	2.19E-08	5.38E-10	2.46E-09	5.85E-12	3.00E-09	3.30E-10	1.13E-09	1.36E-12	1.46E-09
4750	420920.9	3734980	3.78E-09	1.73E-08	3.77E-11	2.11E-08	5.18E-10	2.36E-09	5.62E-12	2.88E-09	3.18E-10	1.08E-09	1.30E-12	1.40E-09
4751	420912.1	3734984	3.62E-09	1.65E-08	3.62E-11	2.02E-08	4.96E-10	2.26E-09	5.39E-12	2.76E-09	3.04E-10	1.04E-09	1.25E-12	1.35E-09
4752	420903.2	3734988	3.45E-09	1.58E-08	3.45E-11	1.93E-08	4.74E-10	2.16E-09	5.14E-12	2.64E-09	2.91E-10	9.93E-10	1.19E-12	1.28E-09
4753	420894.4	3734991	3.29E-09	1.51E-08	3.29E-11	1.84E-08	4.51E-10	2.06E-09	4.90E-12	2.51E-09	2.77E-10	9.46E-10	1.14E-12	1.22E-09
4754	420885.6	3734995	3.13E-09	1.43E-08	3.13E-11	1.75E-08	4.29E-10	1.96E-09	4.66E-12	2.39E-09	2.63E-10	8.99E-10	1.08E-12	1.16E-09
4755	420876.8	3734999	2.96E-09	1.36E-08	2.96E-11	1.65E-08	4.06E-10	1.85E-09	4.41E-12	2.26E-09	2.49E-10	8.52E-10	1.02E-12	1.10E-09
4756	420868	3735002	2.80E-09	1.28E-08	2.80E-11	1.56E-08	3.83E-10	1.75E-09	4.16E-12	2.14E-09	2.35E-10	8.04E-10	9.67E-13	1.04E-09
4757	420859.1	3735006	2.63E-09	1.20E-08	2.63E-11	1.47E-08	3.60E-10	1.64E-09	3.91E-12	2.01E-09	2.21E-10	7.55E-10	9.08E-13	9.77E-10
4758	420850.3	3735010	2.46E-09	1.12E-08	2.46E-11	1.37E-08	3.37E-10	1.54E-09	3.66E-12	1.88E-09	2.07E-10	7.06E-10	8.50E-13	9.14E-10
4759	420841.5	3735013	2.29E-09	1.05E-08	2.29E-11	1.28E-08	3.14E-10	1.43E-09	3.41E-12	1.75E-09	1.93E-10	6.59E-10	7.93E-13	8.53E-10
4760	420832.7	3735017	2.13E-09	9.76E-09	2.13E-11	1.19E-08	2.93E-10	1.33E-09	3.18E-12	1.63E-09	1.80E-10	6.13E-10	7.38E-13	7.94E-10
4761	420823.9	3735021	1.98E-09	9.06E-09	1.98E-11	1.11E-08	2.72E-10	1.24E-09	2.95E-12	1.51E-09	1.67E-10	5.69E-10	6.85E-13	7.37E-10
4762	420815	3735024	1.83E-09	8.39E-09	1.83E-11	1.02E-08	2.52E-10	1.15E-09	2.73E-12	1.40E-09	1.54E-10	5.27E-10	6.34E-13	6.82E-10
4763	420770.9	3735043	1.24E-09	5.65E-09	1.24E-11	6.90E-09	1.69E-10	7.73E-10	1.84E-12	9.44E-10	1.04E-10	3.55E-10	4.27E-13	4.60E-10
4764	420762.1	3735046	1.14E-09	5.20E-09	1.14E-11	6.34E-09	1.56E-10	7.10E-10	1.69E-12	8.68E-10	9.56E-11	3.27E-10	3.93E-13	4.23E-10
4765	420753.3	3735050	1.04E-09	4.78E-09	1.04E-11	5.83E-09	1.43E-10	6.53E-10	1.55E-12	7.98E-10	8.79E-11	3.00E-10	3.61E-13	3.88E-10
4766	421404.5	3734391	4.34E-10	1.98E-09	4.34E-12	2.42E-09	5.95E-11	2.71E-10	6.46E-13	3.32E-10	3.65E-11	1.25E-10	1.50E-13	1.61E-10
4767	421404.4	3734382	4.13E-10	1.89E-09	4.13E-12	2.31E-09	5.67E-11	2.59E-10	6.15E-13	3.16E-10	3.48E-11	1.19E-10	1.43E-13	1.54E-10
4768	421404.4	3734372	3.95E-10	1.80E-09	3.94E-12	2.20E-09	5.41E-11	2.47E-10	5.87E-13	3.01E-10	3.32E-11	1.13E-10	1.36E-13	1.47E-10
4769	421404.3	3734362	3.79E-10	1.74E-09	3.79E-12	2.12E-09	5.20E-11	2.37E-10	5.65E-13	2.90E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
4770	421404.3	3734352	3.66E-10	1.67E-09	3.66E-12	2.04E-09	5.02E-11	2.29E-10	5.45E-13	2.79E-10	3.08E-11	1.05E-10	1.26E-13	1.36E-10
4771	421404.3	3734343	3.53E-10	1.61E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.26E-13	2.70E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
4772	421404.2	3734333	3.40E-10	1.55E-09	3.40E-12	1.90E-09	4.66E-11	2.13E-10	5.06E-13	2.60E-10	2.86E-11	9.77E-11	1.18E-13	1.26E-10
4773	421404.2	3734323	3.27E-10	1.50E-09	3.27E-12	1.83E-09	4.49E-11	2.05E-10	4.87E-13	2.50E-10	2.75E-11	9.41E-11	1.13E-13	1.22E-10
4774	421404.2	3734314	3.16E-10	1.44E-09	3.15E-12	1.76E-09	4.33E-11	1.97E-10	4.70E-13	2.41E-10	2.66E-11	9.07E-11	1.09E-13	1.17E-10
4775	421404.1	3734304	3.05E-10	1.39E-09	3.05E-12	1.70E-09	4.18E-11	1.91E-10	4.54E-13	2.33E-10	2.57E-11	8.76E-11	1.05E-13	1.13E-10
4776	421404.1	3734294	2.95E-10	1.35E-09	2.95E-12	1.65E-09	4.04E-11	1.84E-10	4.39E-13	2.25E-10	2.48E-11	8.48E-11	1.02E-13	1.10E-10
4777	421422.6	3734444	5.18E-10	2.37E-09	5.18E-12	2.89E-09	7.10E-11	3.24E-10	7.71E-13	3.96E-10	4.36E-11	1.49E-10	1.79E-13	1.93E-10
4778	421418.9	3734453	5.44E-10	2.49E-09	5.43E-12	3.04E-09	7.45E-11	3.40E-10	8.09E-13	4.15E-10	4.57E-11	1.56E-10	1.88E-13	2.02E-10
4779	421415.3	3734462	5.71E-10	2.61E-09	5.71E-12	3.19E-09	7.83E-11	3.57E-10	8.50E-13	4.36E-10	4.81E-11	1.64E-10	1.97E-13	2.12E-10
4780	421411.6	3734471	6.00E-10	2.75E-09	6.00E-12	3.35E-09	8.23E-11	3.75E-10	8.94E-13	4.59E-10	5.05E-11	1.73E-10	2.07E-13	2.23E-10
4781	421408	3734480	6.30E-10	2.88E-09	6.30E-12	3.52E-09	8.64E-11	3.94E-10	9.38E-13	4.81E-10	5.30E-11	1.81E-10	2.18E-13	2.34E-10
4782	421404.4	3734489	6.62E-10	3.03E-09	6.61E-12	3.69E-09	9.07E-11	4.14E-10	9.85E-13	5.06E-10	5.57E-11	1.90E-10	2.29E-13	2.46E-10
4783	421400.7	3734498	6.96E-10	3.18E-09	6.95E-12	3.88E-09	9.54E-11	4.35E-10	1.04E-12	5.31E-10	5.85E-11	2.00E-10	2.40E-13	2.59E-10
4784	421367.9	3734577	1.07E-09	4.88E-09	1.07E-11	5.96E-09	1.46E-10	6.67E-10	1.59E-12	8.15E-10	8.98E-11	3.07E-10	3.69E-13	3.97E-10
4785	421364.3	3734586	1.12E-09	5.11E-09	1.12E-11	6.24E-09	1.53E-10	6.99E-10	1.66E-12	8.54E-10	9.41E-11	3.21E-10	3.86E-13	4.16E-10
4786	421360.6	3734595	1.17E-09	5.36E-09	1.17E-11	6.55E-09	1.61E-10	7.33E-10	1.75E-12	8.96E-10	9.87E-11	3.37E-10	4.05E-13	4.36E-10
4787	421357	3734604	1.23E-09	5.62E-09	1.23E-11	6.86E-09	1.68E-10	7.68E-10	1.83E-12	9.39E-10	1.03E-10	3.53E-10	4.25E-13	4.57E-10
4788	421353.3	3734613	1.29E-09	5.89E-09	1.29E-11	7.19E-09	1.77E-10	8.05E-10	1.92E-12	9.84E-10	1.08E-10	3.70E-10	4.45E-13	4.79E-10
4789	421349.7	3734622	1.35E-09	6.17E-09	1.35E-11	7.54E-09	1.85E-10	8.44E-10	2.01E-12	1.03E-09	1.14E-10	3.88E-10	4.66E-13	5.02E-10
4790	421346	3734631	1.41E-09	6.46E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	2.10E-12	1.08E-09	1.19E-10	4.06E-10	4.88E-13	5.26E-10
4791	421342.4	3734639	1.48E-09	6.76E-09	1.48E-11	8.25E-09	2.03E-10	9.24E-10	2.20E-12	1.13E-09	1.24E-10	4.25E-10	5.11E-13	5.50E-10
4792	421338.8	3734648	1.54E-09	7.05E-09	1.54E-11	8.61E-09	2.11E-10	9.64E-10	2.30E-12	1.18E-09	1.30E-10	4.43E-10	5.33E-13	5.74E-10
4793	421335.1	3734657	1.61E-09	7.35E-09	1.61E-11	8.98E-09	2.20E-10	1.01E-09	2.39E-12	1.23E-09	1.35E-10	4.62E-10	5.56E-13	5.98E-10
4794	421331.5	3734666	1.68E-09	7.66E-09	1.67E-11	9.35E-09	2.30E-10	1.05E-09	2.49E-12	1.28E-09	1.41E-10	4.81E-10	5.79E-13	6.23E-10
4795	421327.8	3734675	1.74E-09	7.97E-09	1.74E-11	9.73E-09	2.39E-10	1.09E-09	2.59E-12	1.33E-09	1.47E-10	5.01E-10	6.02E-13	6.48E-10
4796	421324.2	3734684	1.81E-09	8.27E-09	1.81E-11	1.01E-08	2.48E-10	1.13E-09	2.69E-12	1.38E-09	1.52E-10	5.20E-10	6.25E-13	6.73E-10
4797	421320.5	3734693	1.87E-09	8.57E-09	1.87E-11	1.05E-08	2.57E-10	1.17E-09	2.79E-12	1.43E-09	1.58E-10	5.39E-10	6.48E-13	6.97E-10
4798	421316.9	3734702	1.94E-09	8.86E-09	1.94E-11	1.08E-08	2.66E-10	1.21E-09	2.88E-12	1.48E-09	1.63E-10	5.57E-10	6.70E-13	7.20E-10
4799	421313.2	3734710	2.00E-09	9.13E-09	2.00E-11	1.11E-08	2.74E-10	1.25E-09	2.97E-12	1.52E-09	1.68E-10	5.74E-10	6.90E-13	7.42E-10
4800	421309.6	3734719	2.05E-09	9.39E-09	2.05E-11	1.15E-08	2.82E-10	1.28E-09	3.06E-12	1.57E-09	1.73E-10	5.90E-10	7.10E-13	7.64E-10
4801	421306	3734728	2.11E-09	9.65E-09	2.11E-11	1.18E-08	2.89E-10	1.32E-09	3.14E-12	1.61E-09	1.78E-10	6.06E-10	7.29E-13	7.85E-10
4802	421302.3	3734737	2.16E-09	9.89E-09	2.16E-11	1.21E-08	2.97E-10	1.35E-09	3.22E-12	1.65E-09	1.82E-10	6.22E-10	7.48E-13	8.04E-10
4803	421231.5	3734891	2.75E-09	1.26E-08	2.75E-11	1.54E-08	3.78E-10	1.72E-09	4.10E-12	2.10E-09	2.32E-10	7.91E-10	9.52E-13	1.02E-09
4804	421222.6	3734895	2.82E-09	1.29E-08	2.82E-11	1.58E-08	3.87E-10	1.76E-09	4.20E-12	2.16E-09	2.37E-10	8.11E-10	9.75E-13	1.05E-09
4805	421213.8	3734899	2.89E-09	1.32E-08	2.89E-11	1.61E-08	3.96E-10	1.81E-09	4.30E-12	2.21E-09	2.43E-10	8.31E-10	9.99E-13	1.08E-09
4806	421187.2	3734910	3.09E-09	1.41E-08	3.09E-11	1.73E-08	4.24E-10	1.93E-09	4.60E-12	2.36E-09	2.60E-10	8.89E-10	1.07E-12	1.15E-09
4807	421178.4	3734913	3.16E-09	1.44E-08	3.16E-11	1.76E-08	4.33E-10	1.97E-09	4.70E-12	2.41E-09	2.66E-10	9.07E-10	1.09E-12	1.17E-09
4808	421169.5	3734917	3.22E-09	1.47E-08	3.22E-11	1.80E-08	4.42E-10	2.01E-09	4.80E-12	2.46E-09	2.71E-10	9.26E-10	1.11E-12	1.20E-09
4809	421134.1	3734932	3.50E-09	1.60E-08	3.50E-11	1.96E-08	4.80E-10	2.19E-09	5.21E-12	2.68E-09	2.95E-10	1.01E-09	1.21E-12	1.30E-09
4810	421125.2	3734936	3.58E-09	1.64E-08	3.58E-11	2.00E-08	4.91E-10	2.24E-09	5.33E-12	2.73E-09	3.01E-10	1.03E-09	1.24E-12	1.33E-09
4811	421089.8	3734950	3.85E-09	1.76E-08	3.85E-11	2.15E-08	5.28E-10	2.41E-09	5.74E-12	2.94E-09	3.24E-10	1.11E-09	1.33E-12	1.43E-09
4812	421081	3734954	3.90E-09	1.79E-08	3.90E-11	2.18E-08	5.35E-10	2.44E-09	5.81E-12	2.98E-09	3.29E-10	1.12E-09	1.35E-12	1.45E-09
4813	421072.1	3734958	3.94E-09	1.80E-08	3.94E-11	2.20E-08	5.41E-10	2.47E-09	5.87E-12	3.01E-09	3.32E-10	1.13E-09	1.36E-12	1.47E-09
4814	421063.2	3734961	3.97E-09	1.82E-08	3.97E-11	2.22E-08	5.45E-10	2.48E-09	5.91E-12	3.03E-09	3.34E-10	1.14E-09	1.37E-12	1.48E-09

4815	421054.4	3734965	3.99E-09	1.83E-08	3.99E-11	2.23E-08	5.47E-10	2.50E-09	5.94E-12	3.05E-09	3.36E-10	1.15E-09	1.38E-12	1.48E-09
4816	421045.5	3734969	4.01E-09	1.83E-08	4.00E-11	2.24E-08	5.49E-10	2.50E-09	5.96E-12	3.06E-09	3.37E-10	1.15E-09	1.38E-12	1.49E-09
4817	421036.7	3734972	4.01E-09	1.83E-08	4.01E-11	2.24E-08	5.50E-10	2.51E-09	5.97E-12	3.06E-09	3.38E-10	1.15E-09	1.39E-12	1.49E-09
4818	421027.8	3734976	4.01E-09	1.83E-08	4.01E-11	2.24E-08	5.49E-10	2.51E-09	5.97E-12	3.06E-09	3.37E-10	1.15E-09	1.38E-12	1.49E-09
4819	421019	3734980	3.99E-09	1.82E-08	3.99E-11	2.23E-08	5.47E-10	2.49E-09	5.94E-12	3.05E-09	3.36E-10	1.15E-09	1.38E-12	1.48E-09
4820	420992.4	3734991	3.86E-09	1.76E-08	3.85E-11	2.15E-08	5.29E-10	2.41E-09	5.74E-12	2.95E-09	3.24E-10	1.11E-09	1.33E-12	1.43E-09
4821	420983.5	3734994	3.79E-09	1.73E-08	3.79E-11	2.11E-08	5.19E-10	2.37E-09	5.64E-12	2.89E-09	3.19E-10	1.09E-09	1.31E-12	1.41E-09
4822	420974.7	3734998	3.71E-09	1.70E-08	3.71E-11	2.07E-08	5.09E-10	2.32E-09	5.52E-12	2.83E-09	3.12E-10	1.07E-09	1.28E-12	1.38E-09
4823	420965.8	3735002	3.62E-09	1.66E-08	3.62E-11	2.02E-08	4.97E-10	2.27E-09	5.39E-12	2.77E-09	3.05E-10	1.04E-09	1.25E-12	1.35E-09
4824	420957	3735005	3.52E-09	1.61E-08	3.52E-11	1.97E-08	4.83E-10	2.20E-09	5.25E-12	2.69E-09	2.96E-10	1.01E-09	1.22E-12	1.31E-09
4825	420948.1	3735009	3.41E-09	1.56E-08	3.41E-11	1.91E-08	4.68E-10	2.13E-09	5.08E-12	2.61E-09	2.87E-10	9.81E-10	1.18E-12	1.27E-09
4826	420939.3	3735013	3.30E-09	1.51E-08	3.29E-11	1.84E-08	4.52E-10	2.06E-09	4.91E-12	2.52E-09	2.77E-10	9.47E-10	1.14E-12	1.23E-09
4827	420930.4	3735016	3.17E-09	1.45E-08	3.17E-11	1.77E-08	4.35E-10	1.98E-09	4.72E-12	2.42E-09	2.67E-10	9.11E-10	1.10E-12	1.18E-09
4828	420921.6	3735020	3.04E-09	1.39E-08	3.04E-11	1.70E-08	4.17E-10	1.90E-09	4.53E-12	2.32E-09	2.56E-10	8.75E-10	1.05E-12	1.13E-09
4829	420868.4	3735042	2.23E-09	1.02E-08	2.23E-11	1.24E-08	3.05E-10	1.39E-09	3.32E-12	1.70E-09	1.87E-10	6.40E-10	7.70E-13	8.28E-10
4830	420859.6	3735046	2.09E-09	9.54E-09	2.09E-11	1.17E-08	2.86E-10	1.31E-09	3.11E-12	1.59E-09	1.76E-10	6.00E-10	7.21E-13	7.76E-10
4831	420850.7	3735050	1.95E-09	8.92E-09	1.95E-11	1.09E-08	2.67E-10	1.22E-09	2.90E-12	1.49E-09	1.64E-10	5.61E-10	6.74E-13	7.25E-10
4832	420841.9	3735053	1.82E-09	8.32E-09	1.82E-11	1.02E-08	2.49E-10	1.14E-09	2.71E-12	1.39E-09	1.53E-10	5.23E-10	6.29E-13	6.76E-10
4833	420833	3735057	1.70E-09	7.75E-09	1.69E-11	9.46E-09	2.32E-10	1.06E-09	2.52E-12	1.29E-09	1.43E-10	4.87E-10	5.86E-13	6.30E-10
4834	420779.9	3735079	1.08E-09	4.95E-09	1.08E-11	6.04E-09	1.48E-10	6.76E-10	1.61E-12	8.26E-10	9.10E-11	3.11E-10	3.74E-13	4.02E-10
4835	420771	3735083	9.97E-10	4.56E-09	9.97E-12	5.57E-09	1.37E-10	6.23E-10	1.48E-12	7.62E-10	8.39E-11	2.87E-10	3.45E-13	3.71E-10
4836	420762.2	3735086	9.19E-10	4.20E-09	9.19E-12	5.13E-09	1.26E-10	5.75E-10	1.37E-12	7.02E-10	7.73E-11	2.64E-10	3.18E-13	3.42E-10
4837	421444.5	3734391	3.92E-10	1.79E-09	3.91E-12	2.19E-09	5.37E-11	2.45E-10	5.83E-13	2.99E-10	3.29E-11	1.13E-10	1.35E-13	1.46E-10
4838	421444.4	3734381	3.77E-10	1.72E-09	3.77E-12	2.10E-09	5.17E-11	2.36E-10	5.61E-13	2.88E-10	3.17E-11	1.08E-10	1.30E-13	1.40E-10
4839	421444.4	3734372	3.62E-10	1.66E-09	3.62E-12	2.02E-09	4.96E-11	2.26E-10	5.39E-13	2.76E-10	3.05E-11	1.04E-10	1.25E-13	1.35E-10
4840	421444.3	3734362	3.48E-10	1.59E-09	3.48E-12	1.94E-09	4.77E-11	2.18E-10	5.18E-13	2.66E-10	2.93E-11	1.00E-10	1.20E-13	1.29E-10
4841	421444.3	3734352	3.35E-10	1.53E-09	3.35E-12	1.87E-09	4.59E-11	2.09E-10	4.98E-13	2.56E-10	2.82E-11	9.62E-11	1.16E-13	1.24E-10
4842	421444.3	3734343	3.22E-10	1.47E-09	3.22E-12	1.80E-09	4.42E-11	2.01E-10	4.80E-13	2.46E-10	2.71E-11	9.26E-11	1.11E-13	1.20E-10
4843	421444.2	3734333	3.10E-10	1.42E-09	3.10E-12	1.73E-09	4.25E-11	1.94E-10	4.62E-13	2.37E-10	2.61E-11	8.92E-11	1.07E-13	1.15E-10
4844	421444.2	3734323	2.99E-10	1.37E-09	2.99E-12	1.67E-09	4.10E-11	1.87E-10	4.45E-13	2.28E-10	2.52E-11	8.59E-11	1.03E-13	1.11E-10
4845	421444.2	3734313	2.88E-10	1.32E-09	2.88E-12	1.61E-09	3.95E-11	1.80E-10	4.29E-13	2.20E-10	2.43E-11	8.29E-11	9.97E-14	1.07E-10
4846	421444.1	3734304	2.79E-10	1.28E-09	2.79E-12	1.56E-09	3.83E-11	1.75E-10	4.16E-13	2.13E-10	2.35E-11	8.03E-11	9.66E-14	1.04E-10
4847	421444.1	3734294	2.71E-10	1.24E-09	2.71E-12	1.52E-09	3.72E-11	1.70E-10	4.04E-13	2.07E-10	2.28E-11	7.80E-11	9.38E-14	1.01E-10
4848	420761.4	3734252	1.76E-09	8.04E-09	1.76E-11	9.82E-09	2.41E-10	1.10E-09	2.62E-12	1.34E-09	1.48E-10	5.06E-10	6.08E-13	6.54E-10
4849	420763.1	3734242	1.59E-09	7.27E-09	1.59E-11	8.87E-09	2.18E-10	9.94E-10	2.37E-12	1.21E-09	1.34E-10	4.57E-10	5.49E-13	5.91E-10
4850	420776.8	3734250	1.73E-09	7.89E-09	1.72E-11	9.63E-09	2.37E-10	1.08E-09	2.57E-12	1.32E-09	1.45E-10	4.96E-10	5.96E-13	6.42E-10
4851	420764.9	3734232	1.44E-09	6.60E-09	1.44E-11	8.06E-09	1.98E-10	9.02E-10	2.15E-12	1.10E-09	1.21E-10	4.15E-10	4.99E-13	5.37E-10
4852	420778.3	3734240	1.56E-09	7.13E-09	1.56E-11	8.70E-09	2.14E-10	9.75E-10	2.32E-12	1.19E-09	1.31E-10	4.48E-10	5.39E-13	5.80E-10
4853	420791.6	3734248	1.67E-09	7.65E-09	1.67E-11	9.34E-09	2.29E-10	1.05E-09	2.49E-12	1.28E-09	1.41E-10	4.81E-10	5.78E-13	6.22E-10
4854	420800.9	3734260	1.85E-09	8.48E-09	1.85E-11	1.04E-08	2.54E-10	1.16E-09	2.76E-12	1.42E-09	1.56E-10	5.33E-10	6.41E-13	6.90E-10
4855	420767.9	3734223	1.32E-09	6.06E-09	1.32E-11	7.39E-09	1.82E-10	8.28E-10	1.97E-12	1.01E-09	1.11E-10	3.81E-10	4.58E-13	4.92E-10
4856	420783.2	3734232	1.44E-09	6.59E-09	1.44E-11	8.04E-09	1.98E-10	9.01E-10	2.14E-12	1.10E-09	1.21E-10	4.14E-10	4.98E-13	5.36E-10
4857	420798.4	3734241	1.56E-09	7.11E-09	1.55E-11	8.68E-09	2.13E-10	9.73E-10	2.32E-12	1.19E-09	1.31E-10	4.47E-10	5.38E-13	5.78E-10
4858	420809	3734254	1.74E-09	7.95E-09	1.74E-11	9.70E-09	2.38E-10	1.09E-09	2.59E-12	1.33E-09	1.46E-10	4.99E-10	6.01E-13	6.46E-10
4859	420769.7	3734213	1.21E-09	5.54E-09	1.21E-11	6.76E-09	1.66E-10	7.57E-10	1.80E-12	9.25E-10	1.02E-10	3.48E-10	4.18E-13	4.50E-10
4860	420784.4	3734222	1.31E-09	5.99E-09	1.31E-11	7.32E-09	1.80E-10	8.19E-10	1.95E-12	1.00E-09	1.10E-10	3.77E-10	4.53E-13	4.87E-10
4861	420799.1	3734231	1.41E-09	6.44E-09	1.41E-11	7.86E-09	1.93E-10	8.81E-10	2.10E-12	1.08E-09	1.19E-10	4.05E-10	4.87E-13	5.24E-10
4862	420771.5	3734203	1.11E-09	5.08E-09	1.11E-11	6.20E-09	1.52E-10	6.95E-10	1.65E-12	8.49E-10	9.35E-11	3.19E-10	3.84E-13	4.13E-10
4863	420785.8	3734212	1.20E-09	5.47E-09	1.20E-11	6.68E-09	1.64E-10	7.48E-10	1.78E-12	9.14E-10	1.01E-10	3.44E-10	4.14E-13	4.45E-10
4864	420800.1	3734220	1.28E-09	5.87E-09	1.28E-11	7.16E-09	1.76E-10	8.02E-10	1.91E-12	9.80E-10	1.08E-10	3.69E-10	4.43E-13	4.77E-10
4865	420814.4	3734229	1.37E-09	6.24E-09	1.36E-11	7.62E-09	1.87E-10	8.54E-10	2.03E-12	1.04E-09	1.15E-10	3.92E-10	4.72E-13	5.08E-10
4866	420776	3734184	9.49E-10	4.34E-09	9.48E-12	5.30E-09	1.30E-10	5.93E-10	1.41E-12	7.25E-10	7.98E-11	2.73E-10	3.28E-13	3.53E-10
4867	420791.3	3734193	1.02E-09	4.67E-09	1.02E-11	5.70E-09	1.40E-10	6.39E-10	1.52E-12	7.80E-10	8.60E-11	2.94E-10	3.53E-13	3.80E-10
4868	420806.5	3734202	1.09E-09	5.01E-09	1.09E-11	6.11E-09	1.50E-10	6.84E-10	1.63E-12	8.36E-10	9.21E-11	3.15E-10	3.78E-13	4.07E-10
4869	420821.8	3734211	1.17E-09	5.33E-09	1.17E-11	6.51E-09	1.60E-10	7.29E-10	1.74E-12	8.91E-10	9.81E-11	3.35E-10	4.03E-13	4.34E-10
4870	420846	3734246	1.50E-09	6.84E-09	1.50E-11	8.36E-09	2.05E-10	9.36E-10	2.23E-12	1.14E-09	1.26E-10	4.30E-10	5.17E-13	5.57E-10
4871	420794.3	3734173	8.72E-10	3.98E-09	8.71E-12	4.86E-09	1.19E-10	5.45E-10	1.30E-12	6.66E-10	7.33E-11	2.50E-10	3.01E-13	3.24E-10
4872	420808.8	3734182	9.28E-10	4.24E-09	9.28E-12	5.18E-09	1.27E-10	5.80E-10	1.38E-12	7.09E-10	7.81E-11	2.67E-10	3.21E-13	3.45E-10
4873	420823.4	3734190	9.84E-10	4.50E-09	9.84E-12	5.50E-09	1.35E-10	6.15E-10	1.47E-12	7.52E-10	8.28E-11	2.83E-10	3.40E-13	3.66E-10
4874	420855.4	3734216	1.15E-09	5.27E-09	1.15E-11	6.44E-09	1.58E-10	7.21E-10	1.72E-12	8.81E-10	9.70E-11	3.31E-10	3.98E-13	4.29E-10
4875	420861.1	3734232	1.29E-09	5.91E-09	1.29E-11	7.21E-09	1.77E-10	8.07E-10	1.92E-12	9.86E-10	1.09E-10	3.71E-10	4.46E-13	4.80E-10
4876	420866.9	3734248	1.45E-09	6.61E-09	1.44E-11	8.07E-09	1.98E-10	9.04E-10	2.15E-12	1.10E-09	1.22E-10	4.15E-10	4.99E-13	5.37E-10
4877	420784.1	3734145	7.10E-10	3.24E-09	7.09E-12	3.96E-09	9.73E-11	4.44E-10	1.06E-12	5.42E-10	5.97E-11	2.04E-10	2.45E-13	2.64E-10
4878	420829.9	3734172	8.56E-10	3.91E-09	8.55E-12	4.78E-09	1.17E-10	5.35E-10	1.27E-12	6.54E-10	7.20E-11	2.46E-10	2.96E-13	3.18E-10
4879	420860.4	3734191	9.47E-10	4.33E-09	9.46E-12	5.28E-09	1.30E-10	5.92E-10	1.41E-12	7.23E-10	7.96E-11	2.72E-10	3.27E-13	3.52E-10
4880	420871	3734204	1.02E-09	4.67E-09	1.02E-11	5.70E-09	1.40E-10	6.39E-10	1.52E-12	7.81E-10	8.60E-11	2.94E-10	3.53E-13	3.80E-10
4881	420874	3734212	1.08E-09	4.94E-09	1.08E-11	6.03E-09	1.48E-10	6.75E-10	1.61E-12	8.25E-10	9.08E-11	3.10E-10	3.73E-13	4.02E-10
4882	420880	3734229	1.20E-09	5.51E-09	1.20E-11	6.72E-09	1.65E-10	7.53E-10	1.79E-12	9.20E-10	1.01E-10	3.46E-10	4.16E-13	4.48E-10
4883	420886	3734246	1.34E-09	6.13E-09	1.34E-11	7.49E-09	1.84E-10	8.39E-10	2.00E-12	1.02E-09	1.13E-10	3.85E-10	4.64E-13	4.99E-10
4884	420889	3734254	1.41E-09	6.47E-09	1.41E-11	7.89E-09	1.94E-10	8.84E-10	2.10E-12	1.08E-09	1.19E-10	4.06E-10	4.89E-13	5.26E-10
4885	420787.9	3734125	6.21E-10	2.84E-09	6.21E-12	3.47E-09	8.52E-11	3.89E-10	9.25E-13	4.75E-10	5.23E-11	1.79E-10	2.15E-13	2.31E-10
4886	420802.6	3734134	6.60E-10	3.02E-09	6.60E-12	3.69E-09	9.05E-11	4.13E-10	9.83E-13	5.04E-10	5.56E-11	1.90E-10	2.28E-13	2.46E-10
4887	420817.3	3734143	6.99E-10	3.20E-09	6.99E-12	3.90E-09	9.59E-11	4.37E-10	1.04E-12	5.34E-10	5.88E-11	2.01E-10	2.42E-13	2.60E-10

4888	420876.1	3734178	8.48E-10	3.88E-09	8.47E-12	4.73E-09	1.16E-10	5.30E-10	1.26E-12	6.47E-10	7.13E-11	2.44E-10	2.93E-13	3.15E-10
4889	420886.4	3734191	9.07E-10	4.15E-09	9.06E-12	5.06E-09	1.24E-10	5.67E-10	1.35E-12	6.93E-10	7.63E-11	2.61E-10	3.13E-13	3.37E-10
4890	420892.2	3734207	1.00E-09	4.57E-09	1.00E-11	5.58E-09	1.37E-10	6.25E-10	1.49E-12	7.64E-10	8.42E-11	2.87E-10	3.46E-13	3.72E-10
4891	420898	3734223	1.10E-09	5.04E-09	1.10E-11	6.15E-09	1.51E-10	6.89E-10	1.64E-12	8.42E-10	9.27E-11	3.17E-10	3.81E-13	4.10E-10
4892	420903.8	3734239	1.21E-09	5.54E-09	1.21E-11	6.77E-09	1.66E-10	7.58E-10	1.80E-12	9.26E-10	1.02E-10	3.48E-10	4.19E-13	4.51E-10
4893	420909.6	3734256	1.33E-09	6.08E-09	1.33E-11	7.42E-09	1.82E-10	8.31E-10	1.98E-12	1.02E-09	1.12E-10	3.82E-10	4.59E-13	4.94E-10
4894	420792.2	3734105	5.50E-10	2.51E-09	5.49E-12	3.07E-09	7.53E-11	3.44E-10	8.18E-13	4.20E-10	4.62E-11	1.58E-10	1.90E-13	2.04E-10
4895	420807.5	3734115	5.83E-10	2.67E-09	5.83E-12	3.26E-09	8.00E-11	3.65E-10	8.69E-13	4.46E-10	4.91E-11	1.68E-10	2.02E-13	2.17E-10
4896	420822.7	3734124	6.17E-10	2.82E-09	6.17E-12	3.45E-09	8.46E-11	3.86E-10	9.19E-13	4.72E-10	5.19E-11	1.77E-10	2.13E-13	2.30E-10
4897	420838	3734133	6.51E-10	2.98E-09	6.51E-12	3.64E-09	8.93E-11	4.07E-10	9.70E-13	4.98E-10	5.48E-11	1.87E-10	2.25E-13	2.42E-10
4898	420883.7	3734161	7.47E-10	3.42E-09	7.47E-12	4.17E-09	1.02E-10	4.67E-10	1.11E-12	5.71E-10	6.29E-11	2.15E-10	2.58E-13	2.78E-10
4899	420902	3734178	8.12E-10	3.71E-09	8.12E-12	4.53E-09	1.11E-10	5.08E-10	1.21E-12	6.20E-10	6.83E-11	2.33E-10	2.81E-13	3.02E-10
4900	420908	3734195	8.93E-10	4.08E-09	8.93E-12	4.99E-09	1.22E-10	5.59E-10	1.33E-12	6.82E-10	7.52E-11	2.57E-10	3.09E-13	3.32E-10
4901	420911	3734204	9.36E-10	4.28E-09	9.36E-12	5.23E-09	1.28E-10	5.85E-10	1.39E-12	7.15E-10	7.88E-11	2.69E-10	3.24E-13	3.48E-10
4902	420917	3734220	1.03E-09	4.69E-09	1.03E-11	5.73E-09	1.41E-10	6.42E-10	1.53E-12	7.84E-10	8.64E-11	2.95E-10	3.55E-13	3.82E-10
4903	420923	3734237	1.12E-09	5.13E-09	1.12E-11	6.27E-09	1.54E-10	7.02E-10	1.67E-12	8.58E-10	9.45E-11	3.23E-10	3.88E-13	4.18E-10
4904	420929	3734254	1.22E-09	5.59E-09	1.22E-11	6.83E-09	1.68E-10	7.65E-10	1.82E-12	9.34E-10	1.03E-10	3.52E-10	4.23E-13	4.55E-10
4905	420796.5	3734086	4.90E-10	2.24E-09	4.89E-12	2.73E-09	6.71E-11	3.06E-10	7.29E-13	3.74E-10	4.12E-11	1.41E-10	1.69E-13	1.82E-10
4906	420804.4	3734091	5.04E-10	2.31E-09	5.04E-12	2.81E-09	6.91E-11	3.15E-10	7.51E-13	3.85E-10	4.24E-11	1.45E-10	1.74E-13	1.87E-10
4907	420812.2	3734096	5.19E-10	2.37E-09	5.19E-12	2.90E-09	7.11E-11	3.24E-10	7.72E-13	3.96E-10	4.36E-11	1.49E-10	1.79E-13	1.93E-10
4908	420820.1	3734100	5.33E-10	2.44E-09	5.33E-12	2.98E-09	7.31E-11	3.33E-10	7.94E-13	4.07E-10	4.49E-11	1.53E-10	1.84E-13	1.98E-10
4909	420828	3734105	5.48E-10	2.51E-09	5.48E-12	3.06E-09	7.52E-11	3.43E-10	8.16E-13	4.19E-10	4.61E-11	1.58E-10	1.89E-13	2.04E-10
4910	420835.8	3734110	5.63E-10	2.57E-09	5.63E-12	3.14E-09	7.72E-11	3.52E-10	8.38E-13	4.30E-10	4.74E-11	1.62E-10	1.95E-13	2.09E-10
4911	420843.7	3734115	5.78E-10	2.64E-09	5.78E-12	3.23E-09	7.92E-11	3.61E-10	8.60E-13	4.41E-10	4.86E-11	1.66E-10	2.00E-13	2.15E-10
4912	420906.6	3734153	6.86E-10	3.14E-09	6.86E-12	3.83E-09	9.41E-11	4.29E-10	1.02E-12	5.24E-10	5.77E-11	1.97E-10	2.37E-13	2.55E-10
4913	420917.5	3734166	7.31E-10	3.34E-09	7.30E-12	4.08E-09	1.00E-10	4.57E-10	1.09E-12	5.58E-10	6.15E-11	2.10E-10	2.53E-13	2.72E-10
4914	420920.6	3734175	7.65E-10	3.50E-09	7.65E-12	4.27E-09	1.05E-10	4.78E-10	1.14E-12	5.84E-10	6.44E-11	2.20E-10	2.64E-13	2.85E-10
4915	420923.7	3734183	8.01E-10	3.66E-09	8.01E-12	4.47E-09	1.10E-10	5.01E-10	1.19E-12	6.12E-10	6.74E-11	2.30E-10	2.77E-13	2.98E-10
4916	420926.8	3734192	8.38E-10	3.83E-09	8.38E-12	4.68E-09	1.15E-10	5.24E-10	1.25E-12	6.40E-10	7.05E-11	2.41E-10	2.90E-13	3.12E-10
4917	420930	3734201	8.76E-10	4.01E-09	8.76E-12	4.89E-09	1.20E-10	5.48E-10	1.30E-12	6.69E-10	7.37E-11	2.52E-10	3.03E-13	3.26E-10
4918	420933.1	3734209	9.16E-10	4.19E-09	9.15E-12	5.11E-09	1.26E-10	5.73E-10	1.36E-12	7.00E-10	7.71E-11	2.63E-10	3.16E-13	3.41E-10
4919	420936.2	3734218	9.56E-10	4.37E-09	9.56E-12	5.34E-09	1.31E-10	5.98E-10	1.42E-12	7.30E-10	8.05E-11	2.75E-10	3.30E-13	3.56E-10
4920	420939.3	3734227	9.98E-10	4.56E-09	9.97E-12	5.57E-09	1.37E-10	6.24E-10	1.49E-12	7.62E-10	8.39E-11	2.87E-10	3.45E-13	3.71E-10
4921	420942.4	3734235	1.04E-09	4.75E-09	1.04E-11	5.80E-09	1.43E-10	6.50E-10	1.55E-12	7.94E-10	8.75E-11	2.99E-10	3.59E-13	3.87E-10
4922	420945.5	3734244	1.08E-09	4.95E-09	1.08E-11	6.04E-09	1.48E-10	6.77E-10	1.61E-12	8.27E-10	9.11E-11	3.11E-10	3.74E-13	4.03E-10
4923	420948.6	3734253	1.13E-09	5.15E-09	1.13E-11	6.29E-09	1.54E-10	7.04E-10	1.68E-12	8.60E-10	9.48E-11	3.24E-10	3.89E-13	4.19E-10
4924	420961	3734287	1.31E-09	5.98E-09	1.31E-11	7.30E-09	1.79E-10	8.18E-10	1.95E-12	9.99E-10	1.10E-10	3.76E-10	4.52E-13	4.87E-10
4925	420808	3734071	4.50E-10	2.06E-09	4.50E-12	2.51E-09	6.17E-11	2.81E-10	6.70E-13	3.44E-10	3.79E-11	1.29E-10	1.56E-13	1.67E-10
4926	420823.2	3734080	4.74E-10	2.17E-09	4.74E-12	2.65E-09	6.50E-11	2.96E-10	7.06E-13	3.62E-10	3.99E-11	1.36E-10	1.64E-13	1.76E-10
4927	420838.4	3734089	4.98E-10	2.28E-09	4.98E-12	2.78E-09	6.83E-11	3.12E-10	7.42E-13	3.81E-10	4.19E-11	1.43E-10	1.72E-13	1.85E-10
4928	420853.7	3734099	5.23E-10	2.39E-09	5.23E-12	2.92E-09	7.17E-11	3.27E-10	7.78E-13	3.99E-10	4.40E-11	1.50E-10	1.81E-13	1.94E-10
4929	420914.7	3734136	6.13E-10	2.80E-09	6.12E-12	3.42E-09	8.40E-11	3.83E-10	9.12E-13	4.68E-10	5.15E-11	1.76E-10	2.12E-13	2.28E-10
4930	420932.9	3734153	6.59E-10	3.01E-09	6.58E-12	3.68E-09	9.03E-11	4.12E-10	9.80E-13	5.03E-10	5.54E-11	1.89E-10	2.28E-13	2.45E-10
4931	420938.9	3734170	7.16E-10	3.27E-09	7.16E-12	4.00E-09	9.82E-11	4.48E-10	1.07E-12	5.47E-10	6.03E-11	2.06E-10	2.48E-13	2.66E-10
4932	420945	3734187	7.78E-10	3.56E-09	7.77E-12	4.34E-09	1.07E-10	4.86E-10	1.16E-12	5.94E-10	6.54E-11	2.23E-10	2.69E-13	2.89E-10
4933	420951	3734204	8.42E-10	3.85E-09	8.41E-12	4.70E-09	1.15E-10	5.26E-10	1.25E-12	6.43E-10	7.08E-11	2.42E-10	2.91E-13	3.13E-10
4934	420954	3734212	8.75E-10	4.00E-09	8.74E-12	4.88E-09	1.20E-10	5.47E-10	1.30E-12	6.68E-10	7.36E-11	2.51E-10	3.02E-13	3.25E-10
4935	420960	3734229	9.43E-10	4.31E-09	9.42E-12	5.26E-09	1.29E-10	5.89E-10	1.40E-12	7.20E-10	7.93E-11	2.71E-10	3.26E-13	3.50E-10
4936	420966	3734245	1.01E-09	4.63E-09	1.01E-11	5.65E-09	1.39E-10	6.33E-10	1.51E-12	7.73E-10	8.51E-11	2.91E-10	3.50E-13	3.76E-10
4937	420812.4	3734052	4.05E-10	1.85E-09	4.05E-12	2.26E-09	5.55E-11	2.53E-10	6.03E-13	3.09E-10	3.41E-11	1.16E-10	1.40E-13	1.51E-10
4938	420820.2	3734056	4.16E-10	1.90E-09	4.15E-12	2.32E-09	5.70E-11	2.60E-10	6.19E-13	3.17E-10	3.50E-11	1.19E-10	1.44E-13	1.55E-10
4939	420828.1	3734061	4.26E-10	1.95E-09	4.26E-12	2.38E-09	5.84E-11	2.67E-10	6.35E-13	3.26E-10	3.59E-11	1.22E-10	1.47E-13	1.58E-10
4940	420835.9	3734066	4.37E-10	2.00E-09	4.37E-12	2.44E-09	5.99E-11	2.73E-10	6.51E-13	3.34E-10	3.68E-11	1.26E-10	1.51E-13	1.62E-10
4941	420843.7	3734071	4.48E-10	2.05E-09	4.48E-12	2.50E-09	6.14E-11	2.80E-10	6.67E-13	3.42E-10	3.77E-11	1.29E-10	1.55E-13	1.66E-10
4942	420851.5	3734075	4.58E-10	2.10E-09	4.58E-12	2.56E-09	6.28E-11	2.87E-10	6.83E-13	3.50E-10	3.86E-11	1.32E-10	1.58E-13	1.70E-10
4943	420906.3	3734108	5.31E-10	2.43E-09	5.30E-12	2.96E-09	7.28E-11	3.32E-10	7.90E-13	4.05E-10	4.47E-11	1.53E-10	1.83E-13	1.97E-10
4944	420914.1	3734113	5.40E-10	2.47E-09	5.40E-12	3.02E-09	7.41E-11	3.38E-10	8.04E-13	4.13E-10	4.55E-11	1.55E-10	1.87E-13	2.01E-10
4945	420921.9	3734118	5.49E-10	2.51E-09	5.49E-12	3.07E-09	7.53E-11	3.43E-10	8.18E-13	4.20E-10	4.62E-11	1.58E-10	1.90E-13	2.04E-10
4946	420929.8	3734123	5.58E-10	2.55E-09	5.57E-12	3.11E-09	7.65E-11	3.49E-10	8.30E-13	4.26E-10	4.69E-11	1.60E-10	1.93E-13	2.07E-10
4947	420937.6	3734127	5.66E-10	2.59E-09	5.65E-12	3.16E-09	7.76E-11	3.54E-10	8.42E-13	4.32E-10	4.76E-11	1.63E-10	1.95E-13	2.10E-10
4948	420948.5	3734141	5.97E-10	2.73E-09	5.97E-12	3.33E-09	8.19E-11	3.73E-10	8.89E-13	4.56E-10	5.03E-11	1.72E-10	2.06E-13	2.22E-10
4949	420951.6	3734149	6.22E-10	2.85E-09	6.22E-12	3.47E-09	8.53E-11	3.89E-10	9.26E-13	4.75E-10	5.24E-11	1.79E-10	2.15E-13	2.31E-10
4950	420954.7	3734158	6.48E-10	2.96E-09	6.48E-12	3.62E-09	8.88E-11	4.05E-10	9.65E-13	4.95E-10	5.45E-11	1.86E-10	2.24E-13	2.41E-10
4951	420957.8	3734167	6.74E-10	3.08E-09	6.74E-12	3.76E-09	9.24E-11	4.22E-10	1.00E-12	5.15E-10	5.67E-11	1.94E-10	2.33E-13	2.51E-10
4952	420960.8	3734175	7.01E-10	3.21E-09	7.01E-12	3.92E-09	9.62E-11	4.39E-10	1.04E-12	5.36E-10	5.90E-11	2.02E-10	2.42E-13	2.61E-10
4953	420963.9	3734184	7.29E-10	3.33E-09	7.29E-12	4.07E-09	9.99E-11	4.56E-10	1.09E-12	5.57E-10	6.13E-11	2.09E-10	2.52E-13	2.71E-10
4954	420967	3734192	7.57E-10	3.46E-09	7.57E-12	4.23E-09	1.04E-10	4.73E-10	1.13E-12	5.78E-10	6.37E-11	2.18E-10	2.62E-13	2.82E-10
4955	420970.1	3734201	7.86E-10	3.59E-09	7.85E-12	4.39E-09	1.08E-10	4.91E-10	1.17E-12	6.00E-10	6.61E-11	2.26E-10	2.71E-13	2.92E-10
4956	420973.2	3734210	8.14E-10	3.72E-09	8.14E-12	4.55E-09	1.12E-10	5.09E-10	1.21E-12	6.22E-10	6.85E-11	2.34E-10	2.81E-13	3.03E-10
4957	420976.3	3734218	8.44E-10	3.86E-09	8.43E-12	4.71E-09	1.16E-10	5.27E-10	1.26E-12	6.44E-10	7.10E-11	2.42E-10	2.92E-13	3.14E-10
4958	420979.4	3734227	8.73E-10	3.99E-09	8.73E-12	4.87E-09	1.20E-10	5.46E-10	1.30E-12	6.67E-10	7.35E-11	2.51E-10	3.02E-13	3.25E-10
4959	420982.5	3734235	9.03E-10	4.13E-09	9.02E-12	5.04E-09	1.24E-10	5.64E-10	1.34E-12	6.89E-10	7.59E-11	2.59E-10	3.12E-13	3.36E-10
4960	420985.6	3734244	9.32E-10	4.26E-09	9.32E-12	5.21E-09	1.28E-10	5.83E-10	1.39E-12	7.12E-10	7.85E-11	2.68E-10	3.22E-13	3.47E-10

4961	420988.6	3734253	9.63E-10	4.40E-09	9.62E-12	5.37E-09	1.32E-10	6.02E-10	1.43E-12	7.35E-10	8.10E-11	2.77E-10	3.33E-13	3.58E-10
4962	421001	3734287	1.09E-09	4.98E-09	1.09E-11	6.08E-09	1.49E-10	6.81E-10	1.62E-12	8.32E-10	9.17E-11	3.13E-10	3.77E-13	4.05E-10
4963	420816.1	3734032	3.65E-10	1.67E-09	3.65E-12	2.04E-09	5.01E-11	2.28E-10	5.44E-13	2.79E-10	3.07E-11	1.05E-10	1.26E-13	1.36E-10
4964	420831.3	3734041	3.83E-10	1.75E-09	3.83E-12	2.14E-09	5.25E-11	2.40E-10	5.71E-13	2.93E-10	3.22E-11	1.10E-10	1.32E-13	1.43E-10
4965	420846.5	3734050	4.01E-10	1.83E-09	4.01E-12	2.24E-09	5.50E-11	2.51E-10	5.97E-13	3.07E-10	3.38E-11	1.15E-10	1.39E-13	1.49E-10
4966	420907.5	3734087	4.72E-10	2.16E-09	4.72E-12	2.64E-09	6.47E-11	2.95E-10	7.03E-13	3.61E-10	3.97E-11	1.36E-10	1.63E-13	1.76E-10
4967	420922.8	3734096	4.89E-10	2.23E-09	4.88E-12	2.73E-09	6.70E-11	3.05E-10	7.27E-13	3.73E-10	4.11E-11	1.40E-10	1.69E-13	1.82E-10
4968	420938	3734106	5.04E-10	2.30E-09	5.03E-12	2.81E-09	6.90E-11	3.15E-10	7.50E-13	3.85E-10	4.24E-11	1.45E-10	1.74E-13	1.87E-10
4969	420953.3	3734115	5.17E-10	2.36E-09	5.17E-12	2.89E-09	7.09E-11	3.23E-10	7.70E-13	3.95E-10	4.35E-11	1.49E-10	1.79E-13	1.92E-10
4970	420963.9	3734128	5.43E-10	2.48E-09	5.43E-12	3.03E-09	7.44E-11	3.40E-10	8.08E-13	4.15E-10	4.57E-11	1.56E-10	1.88E-13	2.02E-10
4971	420966.9	3734136	5.64E-10	2.58E-09	5.64E-12	3.15E-09	7.73E-11	3.53E-10	8.39E-13	4.31E-10	4.74E-11	1.62E-10	1.95E-13	2.10E-10
4972	420969.9	3734145	5.85E-10	2.68E-09	5.85E-12	3.27E-09	8.02E-11	3.66E-10	8.71E-13	4.47E-10	4.92E-11	1.68E-10	2.02E-13	2.18E-10
4973	420975.9	3734161	6.29E-10	2.88E-09	6.29E-12	3.51E-09	8.63E-11	3.93E-10	9.37E-13	4.81E-10	5.30E-11	1.81E-10	2.17E-13	2.34E-10
4974	420982	3734178	6.75E-10	3.09E-09	6.75E-12	3.77E-09	9.26E-11	4.22E-10	1.01E-12	5.16E-10	5.68E-11	1.94E-10	2.33E-13	2.51E-10
4975	420988	3734195	7.22E-10	3.30E-09	7.22E-12	4.03E-09	9.90E-11	4.52E-10	1.08E-12	5.52E-10	6.08E-11	2.08E-10	2.50E-13	2.69E-10
4976	420994	3734212	7.70E-10	3.52E-09	7.70E-12	4.30E-09	1.06E-10	4.82E-10	1.15E-12	5.88E-10	6.48E-11	2.21E-10	2.66E-13	2.86E-10
4977	420997	3734220	7.94E-10	3.63E-09	7.94E-12	4.43E-09	1.09E-10	4.97E-10	1.18E-12	6.07E-10	6.68E-11	2.28E-10	2.75E-13	2.95E-10
4978	421003	3734237	8.43E-10	3.85E-09	8.42E-12	4.70E-09	1.16E-10	5.27E-10	1.25E-12	6.44E-10	7.09E-11	2.42E-10	2.91E-13	3.13E-10
4979	421021.1	3734287	9.98E-10	4.56E-09	9.98E-12	5.57E-09	1.37E-10	6.24E-10	1.49E-12	7.62E-10	8.40E-11	2.87E-10	3.45E-13	3.71E-10
4980	420820.5	3734012	3.32E-10	1.52E-09	3.32E-12	1.85E-09	4.55E-11	2.08E-10	4.94E-13	2.54E-10	2.79E-11	9.54E-11	1.15E-13	1.24E-10
4981	420828.3	3734017	3.40E-10	1.55E-09	3.40E-12	1.90E-09	4.66E-11	2.13E-10	5.06E-13	2.60E-10	2.86E-11	9.77E-11	1.17E-13	1.26E-10
4982	420836	3734022	3.48E-10	1.59E-09	3.48E-12	1.94E-09	4.77E-11	2.18E-10	5.18E-13	2.66E-10	2.93E-11	1.00E-10	1.20E-13	1.29E-10
4983	420843.8	3734027	3.56E-10	1.63E-09	3.56E-12	1.99E-09	4.88E-11	2.22E-10	5.30E-13	2.72E-10	2.99E-11	1.02E-10	1.23E-13	1.32E-10
4984	420851.6	3734031	3.64E-10	1.66E-09	3.64E-12	2.03E-09	4.99E-11	2.28E-10	5.42E-13	2.78E-10	3.06E-11	1.05E-10	1.26E-13	1.35E-10
4985	420859.4	3734036	3.72E-10	1.70E-09	3.72E-12	2.08E-09	5.10E-11	2.33E-10	5.54E-13	2.84E-10	3.13E-11	1.07E-10	1.29E-13	1.38E-10
4986	420898.4	3734060	4.12E-10	1.88E-09	4.12E-12	2.30E-09	5.65E-11	2.58E-10	6.13E-13	3.15E-10	3.47E-11	1.18E-10	1.42E-13	1.53E-10
4987	420906.2	3734064	4.20E-10	1.92E-09	4.20E-12	2.34E-09	5.75E-11	2.62E-10	6.25E-13	3.21E-10	3.53E-11	1.21E-10	1.45E-13	1.56E-10
4988	420914	3734069	4.27E-10	1.95E-09	4.27E-12	2.39E-09	5.86E-11	2.67E-10	6.36E-13	3.27E-10	3.60E-11	1.23E-10	1.48E-13	1.59E-10
4989	420921.8	3734074	4.35E-10	1.99E-09	4.35E-12	2.43E-09	5.96E-11	2.72E-10	6.48E-13	3.32E-10	3.66E-11	1.25E-10	1.50E-13	1.62E-10
4990	420929.6	3734078	4.42E-10	2.02E-09	4.42E-12	2.47E-09	6.06E-11	2.77E-10	6.59E-13	3.38E-10	3.72E-11	1.27E-10	1.53E-13	1.64E-10
4991	420937.4	3734083	4.49E-10	2.05E-09	4.49E-12	2.51E-09	6.16E-11	2.81E-10	6.69E-13	3.43E-10	3.78E-11	1.29E-10	1.55E-13	1.67E-10
4992	420945.2	3734088	4.56E-10	2.09E-09	4.56E-12	2.55E-09	6.25E-11	2.85E-10	6.79E-13	3.48E-10	3.84E-11	1.31E-10	1.58E-13	1.70E-10
4993	420953	3734093	4.62E-10	2.11E-09	4.62E-12	2.58E-09	6.34E-11	2.89E-10	6.88E-13	3.53E-10	3.89E-11	1.33E-10	1.60E-13	1.72E-10
4994	420960.8	3734097	4.68E-10	2.14E-09	4.68E-12	2.61E-09	6.42E-11	2.93E-10	6.97E-13	3.58E-10	3.94E-11	1.35E-10	1.62E-13	1.74E-10
4995	420968.6	3734102	4.74E-10	2.17E-09	4.74E-12	2.65E-09	6.50E-11	2.96E-10	7.05E-13	3.62E-10	3.99E-11	1.36E-10	1.64E-13	1.76E-10
4996	420979.4	3734115	4.97E-10	2.27E-09	4.97E-12	2.77E-09	6.81E-11	3.11E-10	7.40E-13	3.79E-10	4.18E-11	1.43E-10	1.72E-13	1.85E-10
4997	420982.5	3734124	5.15E-10	2.35E-09	5.15E-12	2.87E-09	7.06E-11	3.22E-10	7.67E-13	3.93E-10	4.33E-11	1.48E-10	1.78E-13	1.91E-10
4998	420985.6	3734133	5.34E-10	2.44E-09	5.33E-12	2.98E-09	7.32E-11	3.34E-10	7.94E-13	4.08E-10	4.49E-11	1.53E-10	1.84E-13	1.98E-10
4999	420988.7	3734141	5.53E-10	2.53E-09	5.53E-12	3.09E-09	7.58E-11	3.46E-10	8.23E-13	4.22E-10	4.65E-11	1.59E-10	1.91E-13	2.06E-10
5000	420991.8	3734150	5.72E-10	2.62E-09	5.72E-12	3.19E-09	7.85E-11	3.58E-10	8.52E-13	4.37E-10	4.82E-11	1.64E-10	1.98E-13	2.13E-10
5001	420994.8	3734158	5.92E-10	2.71E-09	5.92E-12	3.31E-09	8.12E-11	3.70E-10	8.82E-13	4.52E-10	4.98E-11	1.70E-10	2.05E-13	2.20E-10
5002	420997.9	3734167	6.12E-10	2.80E-09	6.12E-12	3.42E-09	8.39E-11	3.83E-10	9.12E-13	4.68E-10	5.15E-11	1.76E-10	2.12E-13	2.28E-10
5003	421001	3734175	6.33E-10	2.89E-09	6.32E-12	3.53E-09	8.67E-11	3.96E-10	9.42E-13	4.83E-10	5.32E-11	1.82E-10	2.19E-13	2.35E-10
5004	421004.1	3734184	6.53E-10	2.99E-09	6.53E-12	3.65E-09	8.95E-11	4.08E-10	9.72E-13	4.99E-10	5.50E-11	1.88E-10	2.26E-13	2.43E-10
5005	421007.2	3734193	6.74E-10	3.08E-09	6.74E-12	3.76E-09	9.24E-11	4.21E-10	1.00E-12	5.15E-10	5.67E-11	1.94E-10	2.33E-13	2.51E-10
5006	421010.2	3734201	6.95E-10	3.18E-09	6.94E-12	3.88E-09	9.52E-11	4.34E-10	1.03E-12	5.31E-10	5.84E-11	2.00E-10	2.40E-13	2.58E-10
5007	421013.3	3734210	7.16E-10	3.27E-09	7.15E-12	3.99E-09	9.81E-11	4.47E-10	1.07E-12	5.47E-10	6.02E-11	2.06E-10	2.47E-13	2.66E-10
5008	421016.4	3734218	7.37E-10	3.37E-09	7.36E-12	4.11E-09	1.01E-10	4.61E-10	1.10E-12	5.63E-10	6.20E-11	2.12E-10	2.55E-13	2.74E-10
5009	421019.5	3734227	7.58E-10	3.46E-09	7.57E-12	4.23E-09	1.04E-10	4.74E-10	1.13E-12	5.79E-10	6.37E-11	2.18E-10	2.62E-13	2.82E-10
5010	421022.5	3734236	7.78E-10	3.56E-09	7.78E-12	4.34E-09	1.07E-10	4.87E-10	1.16E-12	5.95E-10	6.55E-11	2.24E-10	2.69E-13	2.89E-10
5011	421025.6	3734244	7.99E-10	3.66E-09	7.99E-12	4.46E-09	1.10E-10	5.00E-10	1.19E-12	6.11E-10	6.73E-11	2.30E-10	2.76E-13	2.97E-10
5012	420828.5	3733973	2.77E-10	1.27E-09	2.77E-12	1.55E-09	3.80E-11	1.73E-10	4.13E-13	2.12E-10	2.33E-11	7.97E-11	9.58E-14	1.03E-10
5013	420844.1	3733983	2.89E-10	1.32E-09	2.89E-12	1.62E-09	3.97E-11	1.81E-10	4.31E-13	2.21E-10	2.43E-11	8.31E-11	1.00E-13	1.08E-10
5014	420851.8	3733987	2.95E-10	1.35E-09	2.95E-12	1.65E-09	4.05E-11	1.85E-10	4.40E-13	2.26E-10	2.49E-11	8.49E-11	1.02E-13	1.10E-10
5015	420859.6	3733992	3.02E-10	1.38E-09	3.01E-12	1.68E-09	4.13E-11	1.89E-10	4.49E-13	2.30E-10	2.54E-11	8.67E-11	1.04E-13	1.12E-10
5016	420906.3	3734020	3.38E-10	1.55E-09	3.38E-12	1.89E-09	4.64E-11	2.12E-10	5.04E-13	2.58E-10	2.85E-11	9.72E-11	1.17E-13	1.26E-10
5017	420914	3734025	3.45E-10	1.58E-09	3.44E-12	1.92E-09	4.72E-11	2.15E-10	5.13E-13	2.63E-10	2.90E-11	9.90E-11	1.19E-13	1.28E-10
5018	420921.8	3734030	3.51E-10	1.60E-09	3.50E-12	1.96E-09	4.81E-11	2.19E-10	5.22E-13	2.68E-10	2.95E-11	1.01E-10	1.21E-13	1.30E-10
5019	420929.6	3734034	3.57E-10	1.63E-09	3.56E-12	1.99E-09	4.89E-11	2.23E-10	5.31E-13	2.72E-10	3.00E-11	1.02E-10	1.23E-13	1.33E-10
5020	420945.1	3734044	3.68E-10	1.68E-09	3.68E-12	2.06E-09	5.05E-11	2.30E-10	5.48E-13	2.81E-10	3.10E-11	1.06E-10	1.27E-13	1.37E-10
5021	420952.9	3734049	3.74E-10	1.71E-09	3.74E-12	2.09E-09	5.13E-11	2.34E-10	5.57E-13	2.86E-10	3.15E-11	1.07E-10	1.29E-13	1.39E-10
5022	420960.7	3734053	3.79E-10	1.74E-09	3.79E-12	2.12E-09	5.20E-11	2.37E-10	5.65E-13	2.90E-10	3.19E-11	1.09E-10	1.31E-13	1.41E-10
5023	420968.5	3734058	3.85E-10	1.76E-09	3.85E-12	2.15E-09	5.28E-11	2.41E-10	5.73E-13	2.94E-10	3.24E-11	1.11E-10	1.33E-13	1.43E-10
5024	420976.2	3734063	3.90E-10	1.78E-09	3.90E-12	2.18E-09	5.34E-11	2.44E-10	5.80E-13	2.98E-10	3.28E-11	1.12E-10	1.35E-13	1.45E-10
5025	420991.8	3734072	3.99E-10	1.82E-09	3.99E-12	2.23E-09	5.47E-11	2.50E-10	5.94E-13	3.05E-10	3.36E-11	1.15E-10	1.38E-13	1.48E-10
5026	420999.6	3734077	4.03E-10	1.84E-09	4.03E-12	2.25E-09	5.53E-11	2.52E-10	6.00E-13	3.08E-10	3.39E-11	1.16E-10	1.39E-13	1.50E-10
5027	421010.4	3734090	4.20E-10	1.92E-09	4.20E-12	2.34E-09	5.75E-11	2.62E-10	6.25E-13	3.21E-10	3.53E-11	1.21E-10	1.45E-13	1.56E-10
5028	421013.5	3734099	4.33E-10	1.98E-09	4.33E-12	2.42E-09	5.94E-11	2.71E-10	6.45E-13	3.31E-10	3.64E-11	1.24E-10	1.50E-13	1.61E-10
5029	421016.6	3734107	4.47E-10	2.04E-09	4.47E-12	2.50E-09	6.13E-11	2.80E-10	6.66E-13	3.41E-10	3.76E-11	1.28E-10	1.54E-13	1.66E-10
5030	421019.6	3734116	4.61E-10	2.11E-09	4.61E-12	2.57E-09	6.32E-11	2.88E-10	6.87E-13	3.52E-10	3.88E-11	1.33E-10	1.59E-13	1.71E-10
5031	421022.7	3734124	4.76E-10	2.17E-09	4.75E-12	2.65E-09	6.52E-11	2.97E-10	7.08E-13	3.63E-10	4.00E-11	1.37E-10	1.64E-13	1.77E-10
5032	421025.8	3734133	4.90E-10	2.24E-09	4.90E-12	2.74E-09	6.72E-11	3.06E-10	7.30E-13	3.74E-10	4.12E-11	1.41E-10	1.69E-13	1.82E-10
5033	421028.8	3734141	5.05E-10	2.31E-09	5.05E-12	2.82E-09	6.92E-11	3.16E-10	7.52E-13	3.86E-10	4.25E-11	1.45E-10	1.74E-13	1.88E-10

5034	421031.9	3734150	5.20E-10	2.38E-09	5.19E-12	2.90E-09	7.12E-11	3.25E-10	7.74E-13	3.97E-10	4.37E-11	1.49E-10	1.80E-13	1.93E-10
5035	421035	3734159	5.35E-10	2.44E-09	5.34E-12	2.98E-09	7.33E-11	3.34E-10	7.96E-13	4.08E-10	4.50E-11	1.54E-10	1.85E-13	1.99E-10
5036	421038	3734167	5.49E-10	2.51E-09	5.49E-12	3.07E-09	7.53E-11	3.44E-10	8.18E-13	4.20E-10	4.62E-11	1.58E-10	1.90E-13	2.04E-10
5037	421041.1	3734176	5.64E-10	2.58E-09	5.64E-12	3.15E-09	7.74E-11	3.53E-10	8.40E-13	4.31E-10	4.75E-11	1.62E-10	1.95E-13	2.10E-10
5038	421044.2	3734184	5.79E-10	2.65E-09	5.79E-12	3.23E-09	7.94E-11	3.62E-10	8.63E-13	4.43E-10	4.87E-11	1.66E-10	2.00E-13	2.15E-10
5039	421047.3	3734193	5.94E-10	2.72E-09	5.94E-12	3.32E-09	8.15E-11	3.72E-10	8.85E-13	4.54E-10	5.00E-11	1.71E-10	2.05E-13	2.21E-10
5040	421050.3	3734201	6.09E-10	2.79E-09	6.09E-12	3.40E-09	8.35E-11	3.81E-10	9.07E-13	4.65E-10	5.13E-11	1.75E-10	2.11E-13	2.27E-10
5041	421053.4	3734210	6.24E-10	2.85E-09	6.24E-12	3.48E-09	8.56E-11	3.90E-10	9.29E-13	4.77E-10	5.25E-11	1.79E-10	2.16E-13	2.32E-10
5042	421056.5	3734218	6.39E-10	2.92E-09	6.39E-12	3.57E-09	8.76E-11	4.00E-10	9.52E-13	4.88E-10	5.38E-11	1.84E-10	2.21E-13	2.38E-10
5043	421059.5	3734227	6.54E-10	2.99E-09	6.54E-12	3.65E-09	8.97E-11	4.09E-10	9.74E-13	5.00E-10	5.51E-11	1.88E-10	2.26E-13	2.43E-10
5044	421062.6	3734236	6.70E-10	3.06E-09	6.69E-12	3.74E-09	9.18E-11	4.19E-10	9.97E-13	5.11E-10	5.63E-11	1.92E-10	2.31E-13	2.49E-10
5045	421065.7	3734244	6.85E-10	3.13E-09	6.85E-12	3.82E-09	9.39E-11	4.28E-10	1.02E-12	5.23E-10	5.76E-11	1.97E-10	2.37E-13	2.55E-10
5046	420794.9	3733960	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.62E-10	3.87E-13	1.98E-10	2.19E-11	7.46E-11	8.98E-14	9.66E-11
5047	420921.9	3733986	2.88E-10	1.31E-09	2.87E-12	1.61E-09	3.94E-11	1.80E-10	4.28E-13	2.20E-10	2.42E-11	8.26E-11	9.94E-14	1.07E-10
5048	420937.4	3733995	2.97E-10	1.36E-09	2.97E-12	1.66E-09	4.08E-11	1.86E-10	4.43E-13	2.27E-10	2.50E-11	8.54E-11	1.03E-13	1.11E-10
5049	420945.2	3734000	3.02E-10	1.38E-09	3.02E-12	1.69E-09	4.14E-11	1.89E-10	4.50E-13	2.31E-10	2.54E-11	8.68E-11	1.04E-13	1.12E-10
5050	420953	3734004	3.07E-10	1.40E-09	3.07E-12	1.71E-09	4.21E-11	1.92E-10	4.57E-13	2.34E-10	2.58E-11	8.82E-11	1.06E-13	1.14E-10
5051	420960.7	3734009	3.12E-10	1.42E-09	3.11E-12	1.74E-09	4.27E-11	1.95E-10	4.64E-13	2.38E-10	2.62E-11	8.95E-11	1.08E-13	1.16E-10
5052	420976.2	3734019	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.40E-11	2.01E-10	4.77E-13	2.45E-10	2.70E-11	9.22E-11	1.11E-13	1.19E-10
5053	420984	3734023	3.25E-10	1.49E-09	3.25E-12	1.82E-09	4.46E-11	2.03E-10	4.84E-13	2.48E-10	2.74E-11	9.34E-11	1.12E-13	1.21E-10
5054	420991.8	3734028	3.29E-10	1.51E-09	3.29E-12	1.84E-09	4.52E-11	2.06E-10	4.90E-13	2.52E-10	2.77E-11	9.47E-11	1.14E-13	1.22E-10
5055	420999.5	3734033	3.33E-10	1.52E-09	3.33E-12	1.86E-09	4.57E-11	2.08E-10	4.96E-13	2.55E-10	2.80E-11	9.58E-11	1.15E-13	1.24E-10
5056	421015	3734042	3.40E-10	1.56E-09	3.40E-12	1.90E-09	4.67E-11	2.13E-10	5.07E-13	2.60E-10	2.86E-11	9.78E-11	1.18E-13	1.27E-10
5057	421022.8	3734047	3.44E-10	1.57E-09	3.43E-12	1.92E-09	4.71E-11	2.15E-10	5.12E-13	2.62E-10	2.89E-11	9.87E-11	1.19E-13	1.28E-10
5058	421030.6	3734051	3.47E-10	1.58E-09	3.46E-12	1.93E-09	4.75E-11	2.17E-10	5.16E-13	2.65E-10	2.92E-11	9.96E-11	1.20E-13	1.29E-10
5059	421041.4	3734065	3.59E-10	1.64E-09	3.59E-12	2.01E-09	4.93E-11	2.25E-10	5.35E-13	2.75E-10	3.02E-11	1.03E-10	1.24E-13	1.34E-10
5060	421044.4	3734073	3.70E-10	1.69E-09	3.70E-12	2.06E-09	5.07E-11	2.31E-10	5.51E-13	2.83E-10	3.11E-11	1.06E-10	1.28E-13	1.38E-10
5061	421047.5	3734082	3.80E-10	1.74E-09	3.80E-12	2.12E-09	5.21E-11	2.38E-10	5.66E-13	2.91E-10	3.20E-11	1.09E-10	1.31E-13	1.41E-10
5062	421050.6	3734090	3.91E-10	1.79E-09	3.91E-12	2.18E-09	5.36E-11	2.44E-10	5.82E-13	2.99E-10	3.29E-11	1.12E-10	1.35E-13	1.45E-10
5063	421053.6	3734099	4.02E-10	1.84E-09	4.02E-12	2.24E-09	5.51E-11	2.51E-10	5.98E-13	3.07E-10	3.38E-11	1.15E-10	1.39E-13	1.49E-10
5064	421056.7	3734107	4.13E-10	1.89E-09	4.12E-12	2.30E-09	5.66E-11	2.58E-10	6.14E-13	3.15E-10	3.47E-11	1.19E-10	1.43E-13	1.53E-10
5065	421059.8	3734116	4.24E-10	1.94E-09	4.23E-12	2.36E-09	5.81E-11	2.65E-10	6.31E-13	3.24E-10	3.56E-11	1.22E-10	1.46E-13	1.58E-10
5066	421062.8	3734124	4.35E-10	1.99E-09	4.34E-12	2.43E-09	5.96E-11	2.72E-10	6.47E-13	3.32E-10	3.66E-11	1.25E-10	1.50E-13	1.62E-10
5067	421065.9	3734133	4.46E-10	2.04E-09	4.45E-12	2.49E-09	6.11E-11	2.79E-10	6.63E-13	3.40E-10	3.75E-11	1.28E-10	1.54E-13	1.66E-10
5068	421068.9	3734142	4.56E-10	2.09E-09	4.56E-12	2.55E-09	6.26E-11	2.85E-10	6.80E-13	3.49E-10	3.84E-11	1.31E-10	1.58E-13	1.70E-10
5069	421072	3734150	4.67E-10	2.14E-09	4.67E-12	2.61E-09	6.41E-11	2.92E-10	6.96E-13	3.57E-10	3.93E-11	1.34E-10	1.62E-13	1.74E-10
5070	421075.1	3734159	4.78E-10	2.19E-09	4.78E-12	2.67E-09	6.56E-11	2.99E-10	7.12E-13	3.65E-10	4.02E-11	1.37E-10	1.65E-13	1.78E-10
5071	421078.1	3734167	4.89E-10	2.24E-09	4.89E-12	2.73E-09	6.71E-11	3.06E-10	7.29E-13	3.74E-10	4.12E-11	1.41E-10	1.69E-13	1.82E-10
5072	421081.2	3734176	5.01E-10	2.29E-09	5.00E-12	2.79E-09	6.86E-11	3.13E-10	7.45E-13	3.82E-10	4.21E-11	1.44E-10	1.73E-13	1.86E-10
5073	421084.3	3734184	5.12E-10	2.34E-09	5.11E-12	2.86E-09	7.01E-11	3.20E-10	7.62E-13	3.91E-10	4.30E-11	1.47E-10	1.77E-13	1.90E-10
5074	421087.3	3734193	5.23E-10	2.39E-09	5.23E-12	2.92E-09	7.17E-11	3.27E-10	7.78E-13	3.99E-10	4.40E-11	1.50E-10	1.81E-13	1.94E-10
5075	420803	3733921	2.22E-10	1.01E-09	2.22E-12	1.24E-09	3.04E-11	1.39E-10	3.30E-13	1.69E-10	1.87E-11	6.37E-11	7.66E-14	8.25E-11
5076	420852.4	3733899	2.07E-10	9.45E-10	2.06E-12	1.15E-09	2.83E-11	1.29E-10	3.08E-13	1.58E-10	1.74E-11	5.94E-11	7.14E-14	7.68E-11
5077	420860.2	3733904	2.10E-10	9.61E-10	2.10E-12	1.17E-09	2.88E-11	1.31E-10	3.13E-13	1.61E-10	1.77E-11	6.04E-11	7.27E-14	7.82E-11
5078	420891.1	3733923	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.08E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.47E-11	7.78E-14	8.37E-11
5079	420945.4	3733956	2.52E-10	1.15E-09	2.52E-12	1.41E-09	3.45E-11	1.57E-10	3.75E-13	1.92E-10	2.12E-11	7.23E-11	8.70E-14	9.36E-11
5080	420953.1	3733960	2.56E-10	1.17E-09	2.55E-12	1.43E-09	3.50E-11	1.60E-10	3.80E-13	1.95E-10	2.15E-11	7.34E-11	8.83E-14	9.50E-11
5081	420960.8	3733965	2.59E-10	1.19E-09	2.59E-12	1.45E-09	3.56E-11	1.62E-10	3.86E-13	1.98E-10	2.18E-11	7.46E-11	8.97E-14	9.65E-11
5082	420976.3	3733975	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.98E-13	2.04E-10	2.25E-11	7.68E-11	9.24E-14	9.94E-11
5083	420984.1	3733979	2.71E-10	1.24E-09	2.71E-12	1.51E-09	3.72E-11	1.69E-10	4.04E-13	2.07E-10	2.28E-11	7.79E-11	9.37E-14	1.01E-10
5084	420991.8	3733984	2.75E-10	1.26E-09	2.75E-12	1.53E-09	3.77E-11	1.72E-10	4.09E-13	2.10E-10	2.31E-11	7.90E-11	9.50E-14	1.02E-10
5085	421007.3	3733993	2.82E-10	1.29E-09	2.82E-12	1.57E-09	3.86E-11	1.76E-10	4.20E-13	2.15E-10	2.37E-11	8.10E-11	9.74E-14	1.05E-10
5086	421015.1	3733998	2.85E-10	1.30E-09	2.85E-12	1.59E-09	3.91E-11	1.78E-10	4.25E-13	2.18E-10	2.40E-11	8.20E-11	9.86E-14	1.06E-10
5087	421022.8	3734003	2.88E-10	1.32E-09	2.88E-12	1.61E-09	3.95E-11	1.80E-10	4.29E-13	2.20E-10	2.43E-11	8.29E-11	9.97E-14	1.07E-10
5088	421030.6	3734007	2.91E-10	1.33E-09	2.91E-12	1.63E-09	3.99E-11	1.82E-10	4.34E-13	2.23E-10	2.45E-11	8.37E-11	1.01E-13	1.08E-10
5089	421046	3734017	2.97E-10	1.36E-09	2.96E-12	1.66E-09	4.07E-11	1.85E-10	4.42E-13	2.27E-10	2.50E-11	8.52E-11	1.03E-13	1.10E-10
5090	421053.8	3734021	2.99E-10	1.37E-09	2.99E-12	1.67E-09	4.10E-11	1.87E-10	4.45E-13	2.28E-10	2.52E-11	8.59E-11	1.03E-13	1.11E-10
5091	421061.5	3734026	3.01E-10	1.38E-09	3.01E-12	1.68E-09	4.13E-11	1.88E-10	4.48E-13	2.30E-10	2.53E-11	8.65E-11	1.04E-13	1.12E-10
5092	421072.3	3734039	3.11E-10	1.42E-09	3.11E-12	1.74E-09	4.26E-11	1.94E-10	4.63E-13	2.38E-10	2.62E-11	8.94E-11	1.07E-13	1.16E-10
5093	421075.4	3734048	3.19E-10	1.46E-09	3.19E-12	1.78E-09	4.38E-11	2.00E-10	4.75E-13	2.44E-10	2.69E-11	9.17E-11	1.10E-13	1.19E-10
5094	421078.5	3734056	3.27E-10	1.50E-09	3.27E-12	1.83E-09	4.49E-11	2.05E-10	4.87E-13	2.50E-10	2.75E-11	9.41E-11	1.13E-13	1.22E-10
5095	421081.5	3734065	3.36E-10	1.54E-09	3.36E-12	1.87E-09	4.60E-11	2.10E-10	5.00E-13	2.56E-10	2.83E-11	9.65E-11	1.16E-13	1.25E-10
5096	421084.6	3734073	3.44E-10	1.57E-09	3.44E-12	1.92E-09	4.72E-11	2.15E-10	5.12E-13	2.63E-10	2.90E-11	9.89E-11	1.19E-13	1.28E-10
5097	421087.6	3734082	3.53E-10	1.61E-09	3.52E-12	1.97E-09	4.83E-11	2.20E-10	5.25E-13	2.69E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
5098	421090.7	3734091	3.61E-10	1.65E-09	3.61E-12	2.01E-09	4.95E-11	2.26E-10	5.37E-13	2.76E-10	3.04E-11	1.04E-10	1.25E-13	1.34E-10
5099	421093.7	3734099	3.69E-10	1.69E-09	3.69E-12	2.06E-09	5.06E-11	2.31E-10	5.50E-13	2.82E-10	3.11E-11	1.06E-10	1.28E-13	1.37E-10
5100	421096.8	3734108	3.78E-10	1.73E-09	3.77E-12	2.11E-09	5.18E-11	2.36E-10	5.62E-13	2.88E-10	3.18E-11	1.08E-10	1.30E-13	1.40E-10
5101	421099.9	3734116	3.86E-10	1.76E-09	3.86E-12	2.15E-09	5.29E-11	2.41E-10	5.74E-13	2.95E-10	3.25E-11	1.11E-10	1.33E-13	1.43E-10
5102	421102.9	3734125	3.94E-10	1.80E-09	3.94E-12	2.20E-09	5.40E-11	2.46E-10	5.86E-13	3.01E-10	3.31E-11	1.13E-10	1.36E-13	1.46E-10
5103	421106	3734133	4.02E-10	1.84E-09	4.02E-12	2.25E-09	5.51E-11	2.51E-10	5.99E-13	3.07E-10	3.38E-11	1.16E-10	1.39E-13	1.50E-10
5104	421109	3734142	4.10E-10	1.88E-09	4.10E-12	2.29E-09	5.63E-11	2.57E-10	6.11E-13	3.13E-10	3.45E-11	1.18E-10	1.42E-13	1.53E-10
5105	421112.1	3734150	4.19E-10	1.91E-09	4.18E-12	2.34E-09	5.74E-11	2.62E-10	6.23E-13	3.20E-10	3.52E-11	1.20E-10	1.45E-13	1.56E-10
5106	421161	3734287	5.76E-10	2.63E-09	5.76E-12	3.22E-09	7.90E-11	3.60E-10	8.58E-13	4.40E-10	4.85E-11	1.66E-10	1.99E-13	2.14E-10

5107	420811.1	3733882	1.92E-10	8.78E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.86E-13	1.47E-10	1.62E-11	5.52E-11	6.64E-14	7.14E-11
5108	420860.5	3733860	1.80E-10	8.23E-10	1.80E-12	1.00E-09	2.47E-11	1.12E-10	2.68E-13	1.37E-10	1.51E-11	5.17E-11	6.22E-14	6.69E-11
5109	420868.2	3733865	1.83E-10	8.36E-10	1.83E-12	1.02E-09	2.51E-11	1.14E-10	2.72E-13	1.40E-10	1.54E-11	5.25E-11	6.32E-14	6.80E-11
5110	420875.9	3733870	1.86E-10	8.50E-10	1.86E-12	1.04E-09	2.55E-11	1.16E-10	2.77E-13	1.42E-10	1.56E-11	5.34E-11	6.42E-14	6.91E-11
5111	420899.2	3733884	1.95E-10	8.90E-10	1.95E-12	1.09E-09	2.67E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.60E-11	6.73E-14	7.24E-11
5112	420906.9	3733888	1.98E-10	9.04E-10	1.98E-12	1.10E-09	2.71E-11	1.24E-10	2.94E-13	1.51E-10	1.66E-11	5.68E-11	6.83E-14	7.35E-11
5113	420937.8	3733907	2.10E-10	9.61E-10	2.10E-12	1.17E-09	2.88E-11	1.31E-10	3.13E-13	1.61E-10	1.77E-11	6.04E-11	7.26E-14	7.81E-11
5114	420953.3	3733917	2.17E-10	9.90E-10	2.16E-12	1.21E-09	2.97E-11	1.35E-10	3.22E-13	1.65E-10	1.82E-11	6.22E-11	7.48E-14	8.05E-11
5115	420961	3733921	2.20E-10	1.00E-09	2.20E-12	1.23E-09	3.01E-11	1.37E-10	3.27E-13	1.68E-10	1.85E-11	6.31E-11	7.59E-14	8.17E-11
5116	421015.2	3733954	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.93E-11	8.34E-14	8.97E-11
5117	421022.9	3733959	2.44E-10	1.12E-09	2.44E-12	1.36E-09	3.35E-11	1.53E-10	3.64E-13	1.87E-10	2.05E-11	7.02E-11	8.44E-14	9.08E-11
5118	421038.4	3733968	2.50E-10	1.14E-09	2.50E-12	1.39E-09	3.42E-11	1.56E-10	3.72E-13	1.91E-10	2.10E-11	7.17E-11	8.63E-14	9.28E-11
5119	421046.1	3733973	2.52E-10	1.15E-09	2.52E-12	1.41E-09	3.46E-11	1.58E-10	3.75E-13	1.93E-10	2.12E-11	7.25E-11	8.72E-14	9.38E-11
5120	421053.8	3733977	2.55E-10	1.16E-09	2.55E-12	1.42E-09	3.49E-11	1.59E-10	3.79E-13	1.94E-10	2.14E-11	7.32E-11	8.80E-14	9.47E-11
5121	421069.3	3733987	2.59E-10	1.19E-09	2.59E-12	1.45E-09	3.55E-11	1.62E-10	3.86E-13	1.98E-10	2.18E-11	7.45E-11	8.96E-14	9.64E-11
5122	421077	3733991	2.61E-10	1.19E-09	2.61E-12	1.46E-09	3.58E-11	1.63E-10	3.89E-13	1.99E-10	2.20E-11	7.50E-11	9.03E-14	9.71E-11
5123	421084.8	3733996	2.63E-10	1.20E-09	2.63E-12	1.47E-09	3.61E-11	1.64E-10	3.91E-13	2.01E-10	2.21E-11	7.56E-11	9.09E-14	9.78E-11
5124	421103.3	3734014	2.73E-10	1.25E-09	2.72E-12	1.52E-09	3.74E-11	1.70E-10	4.06E-13	2.08E-10	2.29E-11	7.83E-11	9.42E-14	1.01E-10
5125	421106.4	3734023	2.79E-10	1.28E-09	2.79E-12	1.56E-09	3.82E-11	1.74E-10	4.15E-13	2.13E-10	2.35E-11	8.02E-11	9.64E-14	1.04E-10
5126	421109.4	3734031	2.85E-10	1.31E-09	2.85E-12	1.59E-09	3.91E-11	1.78E-10	4.25E-13	2.18E-10	2.40E-11	8.20E-11	9.87E-14	1.06E-10
5127	421112.5	3734040	2.92E-10	1.33E-09	2.92E-12	1.63E-09	4.00E-11	1.83E-10	4.35E-13	2.23E-10	2.46E-11	8.39E-11	1.01E-13	1.09E-10
5128	421115.5	3734048	2.99E-10	1.36E-09	2.98E-12	1.67E-09	4.09E-11	1.87E-10	4.44E-13	2.28E-10	2.51E-11	8.58E-11	1.03E-13	1.11E-10
5129	421118.6	3734057	3.05E-10	1.39E-09	3.05E-12	1.70E-09	4.18E-11	1.91E-10	4.54E-13	2.33E-10	2.57E-11	8.77E-11	1.05E-13	1.13E-10
5130	421121.6	3734065	3.12E-10	1.43E-09	3.12E-12	1.74E-09	4.27E-11	1.95E-10	4.64E-13	2.38E-10	2.62E-11	8.96E-11	1.08E-13	1.16E-10
5131	421124.7	3734074	3.18E-10	1.46E-09	3.18E-12	1.78E-09	4.36E-11	1.99E-10	4.74E-13	2.43E-10	2.68E-11	9.14E-11	1.10E-13	1.18E-10
5132	421127.7	3734082	3.25E-10	1.48E-09	3.25E-12	1.81E-09	4.45E-11	2.03E-10	4.83E-13	2.48E-10	2.73E-11	9.33E-11	1.12E-13	1.21E-10
5133	421130.8	3734091	3.31E-10	1.51E-09	3.31E-12	1.85E-09	4.54E-11	2.07E-10	4.93E-13	2.53E-10	2.79E-11	9.52E-11	1.14E-13	1.23E-10
5134	421133.8	3734099	3.38E-10	1.54E-09	3.37E-12	1.88E-09	4.63E-11	2.11E-10	5.02E-13	2.58E-10	2.84E-11	9.70E-11	1.17E-13	1.26E-10
5135	421136.9	3734108	3.44E-10	1.57E-09	3.44E-12	1.92E-09	4.71E-11	2.15E-10	5.12E-13	2.63E-10	2.89E-11	9.88E-11	1.19E-13	1.28E-10
5136	421198	3734278	4.90E-10	2.24E-09	4.90E-12	2.74E-09	6.72E-11	3.06E-10	7.30E-13	3.74E-10	4.12E-11	1.41E-10	1.69E-13	1.82E-10
5137	421201	3734286	5.02E-10	2.30E-09	5.02E-12	2.80E-09	6.88E-11	3.14E-10	7.47E-13	3.84E-10	4.22E-11	1.44E-10	1.74E-13	1.87E-10
5138	420828.2	3733844	1.70E-10	7.76E-10	1.70E-12	9.47E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.86E-14	6.31E-11
5139	420819.2	3733842	1.68E-10	7.69E-10	1.68E-12	9.39E-10	2.31E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
5140	420876.3	3733826	1.61E-10	7.35E-10	1.61E-12	8.98E-10	2.20E-11	1.01E-10	2.39E-13	1.23E-10	1.35E-11	4.62E-11	5.56E-14	5.98E-11
5141	420907.2	3733844	1.71E-10	7.80E-10	1.71E-12	9.53E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.44E-11	4.90E-11	5.90E-14	6.35E-11
5142	420914.9	3733849	1.73E-10	7.92E-10	1.73E-12	9.67E-10	2.37E-11	1.08E-10	2.58E-13	1.32E-10	1.46E-11	4.98E-11	5.98E-14	6.44E-11
5143	420930.4	3733859	1.78E-10	8.15E-10	1.78E-12	9.95E-10	2.44E-11	1.11E-10	2.65E-13	1.36E-10	1.50E-11	5.12E-11	6.16E-14	6.63E-11
5144	420961.3	3733877	1.89E-10	8.62E-10	1.88E-12	1.05E-09	2.58E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.42E-11	6.51E-14	7.01E-11
5145	420969	3733882	1.91E-10	8.74E-10	1.91E-12	1.07E-09	2.62E-11	1.19E-10	2.84E-13	1.46E-10	1.61E-11	5.49E-11	6.60E-14	7.10E-11
5146	420984.4	3733891	1.96E-10	8.98E-10	1.96E-12	1.10E-09	2.69E-11	1.23E-10	2.92E-13	1.50E-10	1.65E-11	5.64E-11	6.78E-14	7.30E-11
5147	420992.2	3733896	1.99E-10	9.09E-10	1.99E-12	1.11E-09	2.73E-11	1.24E-10	2.96E-13	1.52E-10	1.67E-11	5.72E-11	6.87E-14	7.40E-11
5148	420999.9	3733901	2.01E-10	9.21E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.70E-11	5.79E-11	6.96E-14	7.49E-11
5149	421015.3	3733910	2.07E-10	9.45E-10	2.06E-12	1.15E-09	2.83E-11	1.29E-10	3.08E-13	1.58E-10	1.74E-11	5.94E-11	7.14E-14	7.68E-11
5150	421023.1	3733915	2.09E-10	9.56E-10	2.09E-12	1.17E-09	2.87E-11	1.31E-10	3.11E-13	1.60E-10	1.76E-11	6.01E-11	7.23E-14	7.78E-11
5151	421030.8	3733919	2.12E-10	9.68E-10	2.12E-12	1.18E-09	2.90E-11	1.32E-10	3.15E-13	1.62E-10	1.78E-11	6.08E-11	7.31E-14	7.87E-11
5152	421084.9	3733952	2.27E-10	1.04E-09	2.27E-12	1.27E-09	3.11E-11	1.42E-10	3.38E-13	1.73E-10	1.91E-11	6.53E-11	7.85E-14	8.45E-11
5153	421100.3	3733962	2.31E-10	1.05E-09	2.31E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.63E-11	7.97E-14	8.58E-11
5154	421108	3733966	2.32E-10	1.06E-09	2.32E-12	1.30E-09	3.18E-11	1.45E-10	3.46E-13	1.77E-10	1.95E-11	6.67E-11	8.03E-14	8.64E-11
5155	421123.5	3733976	2.35E-10	1.07E-09	2.35E-12	1.31E-09	3.22E-11	1.47E-10	3.50E-13	1.79E-10	1.98E-11	6.75E-11	8.12E-14	8.73E-11
5156	421134.3	3733989	2.41E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.59E-13	1.84E-10	2.03E-11	6.93E-11	8.33E-14	8.97E-11
5157	421137.3	3733997	2.46E-10	1.13E-09	2.46E-12	1.37E-09	3.38E-11	1.54E-10	3.67E-13	1.88E-10	2.07E-11	7.08E-11	8.51E-14	9.16E-11
5158	421140.4	3734006	2.52E-10	1.15E-09	2.51E-12	1.40E-09	3.45E-11	1.57E-10	3.74E-13	1.92E-10	2.12E-11	7.23E-11	8.69E-14	9.35E-11
5159	421143.4	3734014	2.57E-10	1.17E-09	2.57E-12	1.43E-09	3.52E-11	1.61E-10	3.82E-13	1.96E-10	2.16E-11	7.38E-11	8.87E-14	9.55E-11
5160	421146.5	3734023	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.59E-11	1.64E-10	3.90E-13	2.00E-10	2.20E-11	7.53E-11	9.05E-14	9.74E-11
5161	421149.5	3734031	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.98E-13	2.04E-10	2.25E-11	7.68E-11	9.23E-14	9.93E-11
5162	421152.6	3734040	2.72E-10	1.25E-09	2.72E-12	1.52E-09	3.73E-11	1.70E-10	4.05E-13	2.08E-10	2.29E-11	7.83E-11	9.41E-14	1.01E-10
5163	421155.6	3734048	2.78E-10	1.27E-09	2.77E-12	1.55E-09	3.80E-11	1.74E-10	4.13E-13	2.12E-10	2.34E-11	7.98E-11	9.59E-14	1.03E-10
5164	421158.7	3734057	2.83E-10	1.29E-09	2.83E-12	1.58E-09	3.88E-11	1.77E-10	4.21E-13	2.16E-10	2.38E-11	8.12E-11	9.77E-14	1.05E-10
5165	421161.7	3734065	2.88E-10	1.32E-09	2.88E-12	1.61E-09	3.95E-11	1.80E-10	4.29E-13	2.20E-10	2.42E-11	8.27E-11	9.95E-14	1.07E-10
5166	421195.3	3734159	3.42E-10	1.57E-09	3.42E-12	1.91E-09	4.69E-11	2.14E-10	5.10E-13	2.62E-10	2.88E-11	9.84E-11	1.18E-13	1.27E-10
5167	421198.3	3734167	3.47E-10	1.59E-09	3.47E-12	1.94E-09	4.76E-11	2.17E-10	5.17E-13	2.65E-10	2.92E-11	9.98E-11	1.20E-13	1.29E-10
5168	421201.4	3734176	3.53E-10	1.61E-09	3.52E-12	1.97E-09	4.83E-11	2.20E-10	5.25E-13	2.69E-10	2.97E-11	1.01E-10	1.22E-13	1.31E-10
5169	421204.4	3734184	3.58E-10	1.64E-09	3.58E-12	2.00E-09	4.91E-11	2.24E-10	5.33E-13	2.73E-10	3.01E-11	1.03E-10	1.24E-13	1.33E-10
5170	421207.5	3734193	3.64E-10	1.66E-09	3.63E-12	2.03E-09	4.98E-11	2.27E-10	5.41E-13	2.78E-10	3.06E-11	1.04E-10	1.26E-13	1.35E-10
5171	421210.5	3734201	3.69E-10	1.69E-09	3.69E-12	2.06E-09	5.06E-11	2.31E-10	5.50E-13	2.82E-10	3.11E-11	1.06E-10	1.28E-13	1.37E-10
5172	421213.6	3734210	3.75E-10	1.72E-09	3.75E-12	2.09E-09	5.14E-11	2.35E-10	5.59E-13	2.87E-10	3.16E-11	1.08E-10	1.30E-13	1.40E-10
5173	420836.3	3733805	1.50E-10	6.86E-10	1.50E-12	8.38E-10	2.06E-11	9.38E-11	2.23E-13	1.15E-10	1.26E-11	4.31E-11	5.19E-14	5.58E-11
5174	420827.3	3733803	1.49E-10	6.81E-10	1.49E-12	8.31E-10	2.04E-11	9.31E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.14E-14	5.54E-11
5175	420884.4	3733787	1.43E-10	6.54E-10	1.43E-12	7.98E-10	1.96E-11	8.94E-11	2.13E-13	1.09E-10	1.20E-11	4.11E-11	4.94E-14	5.32E-11
5176	420915.2	3733805	1.51E-10	6.91E-10	1.51E-12	8.43E-10	2.07E-11	9.45E-11	2.25E-13	1.15E-10	1.27E-11	4.34E-11	5.22E-14	5.62E-11
5177	420922.9	3733810	1.53E-10	7.00E-10	1.53E-12	8.55E-10	2.10E-11	9.58E-11	2.28E-13	1.17E-10	1.29E-11	4.40E-11	5.29E-14	5.69E-11
5178	420930.7	3733815	1.55E-10	7.10E-10	1.55E-12	8.67E-10	2.13E-11	9.71E-11	2.31E-13	1.19E-10	1.31E-11	4.46E-11	5.37E-14	5.77E-11
5179	420946.1	3733824	1.59E-10	7.29E-10	1.59E-12	8.90E-10	2.19E-11	9.97E-11	2.37E-13	1.22E-10	1.34E-11	4.58E-11	5.51E-14	5.93E-11

5180	420969.2	3733838	1.66E-10	7.59E-10	1.66E-12	9.26E-10	2.27E-11	1.04E-10	2.47E-13	1.27E-10	1.40E-11	4.77E-11	5.73E-14	6.17E-11
5181	420977	3733843	1.68E-10	7.68E-10	1.68E-12	9.38E-10	2.30E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
5182	420992.4	3733852	1.72E-10	7.88E-10	1.72E-12	9.62E-10	2.36E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.95E-11	5.96E-14	6.41E-11
5183	421000.1	3733857	1.75E-10	7.98E-10	1.75E-12	9.75E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.03E-14	6.49E-11
5184	421007.8	3733861	1.77E-10	8.08E-10	1.77E-12	9.87E-10	2.42E-11	1.11E-10	2.63E-13	1.35E-10	1.49E-11	5.08E-11	6.11E-14	6.57E-11
5185	421023.3	3733871	1.81E-10	8.28E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.70E-13	1.38E-10	1.52E-11	5.20E-11	6.26E-14	6.73E-11
5186	421031	3733875	1.83E-10	8.38E-10	1.83E-12	1.02E-09	2.51E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.27E-11	6.33E-14	6.81E-11
5187	421046.4	3733885	1.88E-10	8.57E-10	1.87E-12	1.05E-09	2.57E-11	1.17E-10	2.79E-13	1.43E-10	1.58E-11	5.39E-11	6.48E-14	6.97E-11
5188	421054.1	3733889	1.90E-10	8.67E-10	1.90E-12	1.06E-09	2.60E-11	1.19E-10	2.82E-13	1.45E-10	1.60E-11	5.45E-11	6.55E-14	7.05E-11
5189	421061.9	3733894	1.92E-10	8.76E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.85E-13	1.46E-10	1.61E-11	5.51E-11	6.62E-14	7.13E-11
5190	421077.3	3733903	1.96E-10	8.94E-10	1.96E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.65E-11	5.62E-11	6.76E-14	7.27E-11
5191	421085	3733908	1.97E-10	9.03E-10	1.97E-12	1.10E-09	2.71E-11	1.23E-10	2.94E-13	1.51E-10	1.66E-11	5.67E-11	6.82E-14	7.34E-11
5192	421100.4	3733918	2.01E-10	9.19E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	2.99E-13	1.54E-10	1.69E-11	5.78E-11	6.95E-14	7.47E-11
5193	421108.2	3733922	2.03E-10	9.26E-10	2.02E-12	1.13E-09	2.78E-11	1.27E-10	3.02E-13	1.55E-10	1.70E-11	5.82E-11	7.00E-14	7.53E-11
5194	421165.2	3733963	2.15E-10	9.83E-10	2.15E-12	1.20E-09	2.95E-11	1.34E-10	3.20E-13	1.64E-10	1.81E-11	6.18E-11	7.43E-14	7.99E-11
5195	421168.3	3733972	2.19E-10	1.00E-09	2.19E-12	1.22E-09	3.00E-11	1.37E-10	3.26E-13	1.67E-10	1.84E-11	6.30E-11	7.57E-14	8.15E-11
5196	421171.3	3733980	2.23E-10	1.02E-09	2.23E-12	1.25E-09	3.06E-11	1.40E-10	3.33E-13	1.71E-10	1.88E-11	6.42E-11	7.72E-14	8.31E-11
5197	421174.4	3733989	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.12E-11	1.42E-10	3.39E-13	1.74E-10	1.92E-11	6.54E-11	7.87E-14	8.47E-11
5198	421177.4	3733997	2.32E-10	1.06E-09	2.32E-12	1.29E-09	3.18E-11	1.45E-10	3.45E-13	1.77E-10	1.95E-11	6.66E-11	8.01E-14	8.62E-11
5199	421180.5	3734006	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.24E-11	1.48E-10	3.52E-13	1.80E-10	1.99E-11	6.79E-11	8.16E-14	8.78E-11
5200	421186.6	3734023	2.45E-10	1.12E-09	2.44E-12	1.36E-09	3.35E-11	1.53E-10	3.64E-13	1.87E-10	2.06E-11	7.03E-11	8.45E-14	9.09E-11
5201	421204.9	3734074	2.69E-10	1.23E-09	2.69E-12	1.50E-09	3.69E-11	1.68E-10	4.00E-13	2.05E-10	2.26E-11	7.73E-11	9.30E-14	1.00E-10
5202	421207.9	3734082	2.73E-10	1.25E-09	2.73E-12	1.52E-09	3.74E-11	1.71E-10	4.06E-13	2.08E-10	2.30E-11	7.84E-11	9.43E-14	1.02E-10
5203	421211	3734091	2.77E-10	1.27E-09	2.77E-12	1.55E-09	3.80E-11	1.73E-10	4.12E-13	2.12E-10	2.33E-11	7.96E-11	9.57E-14	1.03E-10
5204	421214	3734099	2.81E-10	1.28E-09	2.81E-12	1.57E-09	3.85E-11	1.76E-10	4.18E-13	2.14E-10	2.36E-11	8.07E-11	9.71E-14	1.04E-10
5205	421235.3	3734159	3.08E-10	1.41E-09	3.08E-12	1.72E-09	4.23E-11	1.93E-10	4.59E-13	2.36E-10	2.59E-11	8.86E-11	1.07E-13	1.15E-10
5206	421238.4	3734167	3.13E-10	1.43E-09	3.12E-12	1.74E-09	4.29E-11	1.95E-10	4.65E-13	2.39E-10	2.63E-11	8.98E-11	1.08E-13	1.16E-10
5207	421241.4	3734176	3.17E-10	1.45E-09	3.17E-12	1.77E-09	4.34E-11	1.98E-10	4.72E-13	2.42E-10	2.67E-11	9.11E-11	1.10E-13	1.18E-10
5208	421244.5	3734184	3.21E-10	1.47E-09	3.21E-12	1.79E-09	4.41E-11	2.01E-10	4.79E-13	2.46E-10	2.70E-11	9.24E-11	1.11E-13	1.20E-10
5209	421247.5	3734193	3.26E-10	1.49E-09	3.26E-12	1.82E-09	4.47E-11	2.04E-10	4.86E-13	2.49E-10	2.74E-11	9.37E-11	1.13E-13	1.21E-10
5210	421250.6	3734201	3.31E-10	1.51E-09	3.31E-12	1.85E-09	4.54E-11	2.07E-10	4.93E-13	2.53E-10	2.79E-11	9.51E-11	1.14E-13	1.23E-10
5211	421253.6	3734210	3.36E-10	1.54E-09	3.36E-12	1.88E-09	4.61E-11	2.10E-10	5.00E-13	2.57E-10	2.83E-11	9.66E-11	1.16E-13	1.25E-10
5212	421256.7	3734218	3.42E-10	1.56E-09	3.41E-12	1.91E-09	4.68E-11	2.14E-10	5.09E-13	2.61E-10	2.87E-11	9.82E-11	1.18E-13	1.27E-10
5213	421259.7	3734227	3.47E-10	1.59E-09	3.47E-12	1.94E-09	4.76E-11	2.17E-10	5.17E-13	2.65E-10	2.92E-11	9.98E-11	1.20E-13	1.29E-10
5214	421262.8	3734235	3.53E-10	1.62E-09	3.53E-12	1.97E-09	4.84E-11	2.21E-10	5.26E-13	2.70E-10	2.97E-11	1.02E-10	1.22E-13	1.31E-10
5215	421265.8	3734244	3.60E-10	1.64E-09	3.59E-12	2.01E-09	4.93E-11	2.25E-10	5.35E-13	2.75E-10	3.03E-11	1.03E-10	1.24E-13	1.34E-10
5216	421281	3734286	3.98E-10	1.82E-09	3.98E-12	2.22E-09	5.46E-11	2.49E-10	5.93E-13	3.04E-10	3.35E-11	1.14E-10	1.38E-13	1.48E-10
5217	420853.5	3733768	1.35E-10	6.18E-10	1.35E-12	7.54E-10	1.85E-11	8.45E-11	2.01E-13	1.03E-10	1.14E-11	3.88E-11	4.67E-14	5.02E-11
5218	420844.4	3733766	1.34E-10	6.13E-10	1.34E-12	7.49E-10	1.84E-11	8.39E-11	2.00E-13	1.02E-10	1.13E-11	3.85E-11	4.64E-14	4.99E-11
5219	420835.4	3733764	1.33E-10	6.09E-10	1.33E-12	7.43E-10	1.83E-11	8.32E-11	1.98E-13	1.02E-10	1.12E-11	3.83E-11	4.60E-14	4.95E-11
5220	420893.2	3733748	1.29E-10	5.88E-10	1.28E-12	7.17E-10	1.76E-11	8.03E-11	1.91E-13	9.81E-11	1.08E-11	3.69E-11	4.44E-14	4.78E-11
5221	420901.1	3733753	1.30E-10	5.95E-10	1.30E-12	7.27E-10	1.78E-11	8.14E-11	1.94E-13	9.94E-11	1.10E-11	3.74E-11	4.50E-14	4.84E-11
5222	420932.6	3733772	1.37E-10	6.28E-10	1.37E-12	7.66E-10	1.88E-11	8.58E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.74E-14	5.10E-11
5223	420940.5	3733777	1.39E-10	6.36E-10	1.39E-12	7.76E-10	1.91E-11	8.69E-11	2.07E-13	1.06E-10	1.17E-11	3.99E-11	4.80E-14	5.17E-11
5224	420948.4	3733781	1.41E-10	6.44E-10	1.41E-12	7.86E-10	1.93E-11	8.80E-11	2.10E-13	1.08E-10	1.18E-11	4.05E-11	4.87E-14	5.24E-11
5225	420956.3	3733786	1.43E-10	6.52E-10	1.43E-12	7.96E-10	1.95E-11	8.92E-11	2.12E-13	1.09E-10	1.20E-11	4.10E-11	4.93E-14	5.30E-11
5226	420964.2	3733791	1.44E-10	6.60E-10	1.44E-12	8.06E-10	1.98E-11	9.03E-11	2.15E-13	1.10E-10	1.21E-11	4.15E-11	4.99E-14	5.37E-11
5227	420987.9	3733805	1.50E-10	6.86E-10	1.50E-12	8.37E-10	2.06E-11	9.37E-11	2.23E-13	1.15E-10	1.26E-11	4.31E-11	5.18E-14	5.57E-11
5228	420995.8	3733810	1.52E-10	6.94E-10	1.52E-12	8.47E-10	2.08E-11	9.49E-11	2.26E-13	1.16E-10	1.28E-11	4.36E-11	5.25E-14	5.64E-11
5229	421003.7	3733815	1.54E-10	7.03E-10	1.54E-12	8.58E-10	2.11E-11	9.61E-11	2.29E-13	1.17E-10	1.29E-11	4.42E-11	5.31E-14	5.71E-11
5230	421011.6	3733820	1.56E-10	7.11E-10	1.55E-12	8.68E-10	2.13E-11	9.73E-11	2.32E-13	1.19E-10	1.31E-11	4.47E-11	5.38E-14	5.78E-11
5231	421019.5	3733824	1.58E-10	7.20E-10	1.57E-12	8.79E-10	2.16E-11	9.85E-11	2.34E-13	1.20E-10	1.33E-11	4.53E-11	5.44E-14	5.86E-11
5232	421027.4	3733829	1.59E-10	7.29E-10	1.59E-12	8.90E-10	2.18E-11	9.96E-11	2.37E-13	1.22E-10	1.34E-11	4.58E-11	5.51E-14	5.93E-11
5233	421035.3	3733834	1.61E-10	7.37E-10	1.61E-12	9.00E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.63E-11	5.57E-14	6.00E-11
5234	421043.2	3733839	1.63E-10	7.46E-10	1.63E-12	9.11E-10	2.24E-11	1.02E-10	2.43E-13	1.25E-10	1.37E-11	4.69E-11	5.64E-14	6.07E-11
5235	421051.1	3733844	1.65E-10	7.54E-10	1.65E-12	9.21E-10	2.26E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.74E-11	5.70E-14	6.14E-11
5236	421059	3733848	1.67E-10	7.63E-10	1.67E-12	9.32E-10	2.29E-11	1.04E-10	2.48E-13	1.27E-10	1.40E-11	4.80E-11	5.77E-14	6.21E-11
5237	421066.8	3733853	1.69E-10	7.72E-10	1.69E-12	9.42E-10	2.31E-11	1.06E-10	2.51E-13	1.29E-10	1.42E-11	4.85E-11	5.83E-14	6.28E-11
5238	421074.7	3733858	1.71E-10	7.80E-10	1.71E-12	9.52E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.44E-11	4.90E-11	5.90E-14	6.34E-11
5239	421082.6	3733863	1.72E-10	7.88E-10	1.72E-12	9.62E-10	2.36E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.95E-11	5.96E-14	6.41E-11
5240	421090.5	3733867	1.74E-10	7.96E-10	1.74E-12	9.72E-10	2.39E-11	1.09E-10	2.59E-13	1.33E-10	1.47E-11	5.00E-11	6.02E-14	6.48E-11
5241	421098.4	3733872	1.76E-10	8.04E-10	1.76E-12	9.82E-10	2.41E-11	1.10E-10	2.62E-13	1.34E-10	1.48E-11	5.05E-11	6.08E-14	6.54E-11
5242	421106.3	3733877	1.78E-10	8.12E-10	1.77E-12	9.91E-10	2.43E-11	1.11E-10	2.64E-13	1.36E-10	1.49E-11	5.10E-11	6.13E-14	6.60E-11
5243	421114.2	3733882	1.79E-10	8.19E-10	1.79E-12	1.00E-09	2.46E-11	1.12E-10	2.67E-13	1.37E-10	1.51E-11	5.15E-11	6.19E-14	6.66E-11
5244	421122.1	3733887	1.81E-10	8.26E-10	1.81E-12	1.01E-09	2.48E-11	1.13E-10	2.69E-13	1.38E-10	1.52E-11	5.19E-11	6.24E-14	6.72E-11
5245	421130	3733891	1.82E-10	8.32E-10	1.82E-12	1.02E-09	2.50E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.23E-11	6.29E-14	6.77E-11
5246	421137.9	3733896	1.83E-10	8.38E-10	1.83E-12	1.02E-09	2.51E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.27E-11	6.34E-14	6.82E-11
5247	421145.8	3733901	1.85E-10	8.44E-10	1.85E-12	1.03E-09	2.53E-11	1.15E-10	2.75E-13	1.41E-10	1.55E-11	5.31E-11	6.38E-14	6.86E-11
5248	421153.7	3733906	1.86E-10	8.50E-10	1.86E-12	1.04E-09	2.55E-11	1.16E-10	2.77E-13	1.42E-10	1.56E-11	5.34E-11	6.42E-14	6.91E-11
5249	421161.6	3733910	1.87E-10	8.54E-10	1.87E-12	1.04E-09	2.56E-11	1.17E-10	2.78E-13	1.43E-10	1.57E-11	5.37E-11	6.46E-14	6.95E-11
5250	421169.5	3733915	1.88E-10	8.59E-10	1.88E-12	1.05E-09	2.57E-11	1.17E-10	2.80E-13	1.43E-10	1.58E-11	5.40E-11	6.49E-14	6.98E-11
5251	421177.4	3733920	1.89E-10	8.62E-10	1.89E-12	1.05E-09	2.59E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.42E-11	6.52E-14	7.01E-11
5252	421205.6	3733964	2.04E-10	9.33E-10	2.04E-12	1.14E-09	2.80E-11	1.28E-10	3.04E-13	1.56E-10	1.72E-11	5.86E-11	7.05E-14	7.59E-11

5253	421208.7	3733973	2.08E-10	9.49E-10	2.07E-12	1.16E-09	2.85E-11	1.30E-10	3.09E-13	1.59E-10	1.75E-11	5.96E-11	7.17E-14	7.72E-11
5254	421211.9	3733982	2.11E-10	9.65E-10	2.11E-12	1.18E-09	2.89E-11	1.32E-10	3.14E-13	1.61E-10	1.78E-11	6.07E-11	7.29E-14	7.85E-11
5255	421230.6	3734034	2.32E-10	1.06E-09	2.32E-12	1.29E-09	3.18E-11	1.45E-10	3.45E-13	1.77E-10	1.95E-11	6.66E-11	8.01E-14	8.62E-11
5256	421233.7	3734043	2.35E-10	1.08E-09	2.35E-12	1.31E-09	3.22E-11	1.47E-10	3.50E-13	1.80E-10	1.98E-11	6.76E-11	8.12E-14	8.74E-11
5257	421236.8	3734051	2.38E-10	1.09E-09	2.38E-12	1.33E-09	3.27E-11	1.49E-10	3.55E-13	1.82E-10	2.01E-11	6.85E-11	8.24E-14	8.86E-11
5258	421239.9	3734060	2.42E-10	1.10E-09	2.41E-12	1.35E-09	3.31E-11	1.51E-10	3.60E-13	1.85E-10	2.03E-11	6.94E-11	8.35E-14	8.98E-11
5259	421243	3734069	2.45E-10	1.12E-09	2.45E-12	1.37E-09	3.36E-11	1.53E-10	3.64E-13	1.87E-10	2.06E-11	7.03E-11	8.46E-14	9.10E-11
5260	421246.2	3734077	2.48E-10	1.13E-09	2.48E-12	1.38E-09	3.40E-11	1.55E-10	3.69E-13	1.89E-10	2.09E-11	7.13E-11	8.57E-14	9.22E-11
5261	421249.3	3734086	2.51E-10	1.15E-09	2.51E-12	1.40E-09	3.44E-11	1.57E-10	3.74E-13	1.92E-10	2.11E-11	7.22E-11	8.68E-14	9.34E-11
5262	421252.4	3734095	2.54E-10	1.16E-09	2.54E-12	1.42E-09	3.49E-11	1.59E-10	3.79E-13	1.94E-10	2.14E-11	7.31E-11	8.79E-14	9.46E-11
5263	421255.5	3734103	2.57E-10	1.18E-09	2.57E-12	1.44E-09	3.53E-11	1.61E-10	3.83E-13	1.97E-10	2.17E-11	7.40E-11	8.90E-14	9.57E-11
5264	421258.6	3734112	2.61E-10	1.19E-09	2.61E-12	1.45E-09	3.57E-11	1.63E-10	3.88E-13	1.99E-10	2.19E-11	7.49E-11	9.01E-14	9.69E-11
5265	421261.7	3734121	2.64E-10	1.21E-09	2.64E-12	1.47E-09	3.62E-11	1.65E-10	3.93E-13	2.02E-10	2.22E-11	7.58E-11	9.12E-14	9.81E-11
5266	421264.9	3734129	2.67E-10	1.22E-09	2.67E-12	1.49E-09	3.66E-11	1.67E-10	3.98E-13	2.04E-10	2.25E-11	7.68E-11	9.23E-14	9.93E-11
5267	421268	3734138	2.71E-10	1.24E-09	2.70E-12	1.51E-09	3.71E-11	1.69E-10	4.03E-13	2.07E-10	2.28E-11	7.77E-11	9.35E-14	1.01E-10
5268	421271.1	3734147	2.74E-10	1.25E-09	2.74E-12	1.53E-09	3.75E-11	1.71E-10	4.08E-13	2.09E-10	2.30E-11	7.87E-11	9.47E-14	1.02E-10
5269	421274.2	3734156	2.77E-10	1.27E-09	2.77E-12	1.55E-09	3.80E-11	1.73E-10	4.13E-13	2.12E-10	2.33E-11	7.97E-11	9.59E-14	1.03E-10
5270	421277.3	3734164	2.81E-10	1.29E-09	2.81E-12	1.57E-09	3.85E-11	1.76E-10	4.18E-13	2.15E-10	2.37E-11	8.08E-11	9.72E-14	1.05E-10
5271	421280.4	3734173	2.85E-10	1.30E-09	2.85E-12	1.59E-09	3.91E-11	1.78E-10	4.24E-13	2.18E-10	2.40E-11	8.19E-11	9.85E-14	1.06E-10
5272	421283.6	3734182	2.89E-10	1.32E-09	2.89E-12	1.61E-09	3.96E-11	1.81E-10	4.30E-13	2.21E-10	2.43E-11	8.30E-11	9.98E-14	1.07E-10
5273	421286.7	3734190	2.93E-10	1.34E-09	2.93E-12	1.64E-09	4.02E-11	1.83E-10	4.36E-13	2.24E-10	2.47E-11	8.42E-11	1.01E-13	1.09E-10
5274	421289.8	3734199	2.98E-10	1.36E-09	2.97E-12	1.66E-09	4.08E-11	1.86E-10	4.43E-13	2.27E-10	2.50E-11	8.55E-11	1.03E-13	1.11E-10
5275	421292.9	3734208	3.02E-10	1.38E-09	3.02E-12	1.69E-09	4.14E-11	1.89E-10	4.50E-13	2.31E-10	2.54E-11	8.68E-11	1.04E-13	1.12E-10
5276	421296	3734216	3.07E-10	1.40E-09	3.07E-12	1.71E-09	4.21E-11	1.92E-10	4.57E-13	2.34E-10	2.58E-11	8.82E-11	1.06E-13	1.14E-10
5277	421299.2	3734225	3.12E-10	1.43E-09	3.12E-12	1.74E-09	4.28E-11	1.95E-10	4.65E-13	2.38E-10	2.63E-11	8.97E-11	1.08E-13	1.16E-10
5278	421302.3	3734234	3.17E-10	1.45E-09	3.17E-12	1.77E-09	4.35E-11	1.98E-10	4.73E-13	2.42E-10	2.67E-11	9.12E-11	1.10E-13	1.18E-10
5279	421305.4	3734242	3.23E-10	1.48E-09	3.23E-12	1.80E-09	4.43E-11	2.02E-10	4.81E-13	2.47E-10	2.72E-11	9.28E-11	1.12E-13	1.20E-10
5280	421321	3734286	3.55E-10	1.62E-09	3.55E-12	1.98E-09	4.87E-11	2.22E-10	5.29E-13	2.71E-10	2.99E-11	1.02E-10	1.23E-13	1.32E-10
5281	420861.6	3733729	1.22E-10	5.56E-10	1.22E-12	6.79E-10	1.67E-11	7.61E-11	1.81E-13	9.29E-11	1.02E-11	3.50E-11	4.21E-14	4.52E-11
5282	420852.5	3733727	1.21E-10	5.53E-10	1.21E-12	6.75E-10	1.66E-11	7.56E-11	1.80E-13	9.23E-11	1.02E-11	3.47E-11	4.18E-14	4.49E-11
5283	420843.5	3733725	1.20E-10	5.49E-10	1.20E-12	6.70E-10	1.65E-11	7.51E-11	1.79E-13	9.17E-11	1.01E-11	3.45E-11	4.15E-14	4.46E-11
5284	420901.2	3733709	1.16E-10	5.32E-10	1.16E-12	6.49E-10	1.59E-11	7.27E-11	1.73E-13	8.88E-11	9.78E-12	3.34E-11	4.02E-14	4.32E-11
5285	420909.1	3733713	1.18E-10	5.38E-10	1.18E-12	6.57E-10	1.61E-11	7.36E-11	1.75E-13	8.99E-11	9.90E-12	3.38E-11	4.07E-14	4.38E-11
5286	420916.9	3733718	1.19E-10	5.45E-10	1.19E-12	6.65E-10	1.63E-11	7.45E-11	1.77E-13	9.10E-11	1.00E-11	3.42E-11	4.12E-14	4.43E-11
5287	420924.8	3733723	1.21E-10	5.52E-10	1.21E-12	6.73E-10	1.65E-11	7.54E-11	1.80E-13	9.21E-11	1.01E-11	3.47E-11	4.17E-14	4.49E-11
5288	420948.5	3733737	1.25E-10	5.72E-10	1.25E-12	6.98E-10	1.71E-11	7.82E-11	1.86E-13	9.55E-11	1.05E-11	3.59E-11	4.32E-14	4.65E-11
5289	420956.3	3733742	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.88E-13	9.67E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
5290	420964.2	3733747	1.28E-10	5.86E-10	1.28E-12	7.15E-10	1.76E-11	8.01E-11	1.91E-13	9.79E-11	1.08E-11	3.68E-11	4.43E-14	4.77E-11
5291	420972.1	3733752	1.30E-10	5.93E-10	1.30E-12	7.24E-10	1.78E-11	8.11E-11	1.93E-13	9.90E-11	1.09E-11	3.73E-11	4.48E-14	4.82E-11
5292	420980	3733756	1.31E-10	6.00E-10	1.31E-12	7.32E-10	1.80E-11	8.20E-11	1.95E-13	1.00E-10	1.10E-11	3.77E-11	4.53E-14	4.88E-11
5293	420987.8	3733761	1.33E-10	6.07E-10	1.33E-12	7.41E-10	1.82E-11	8.30E-11	1.98E-13	1.01E-10	1.12E-11	3.82E-11	4.59E-14	4.94E-11
5294	421003.6	3733771	1.36E-10	6.21E-10	1.36E-12	7.59E-10	1.86E-11	8.50E-11	2.02E-13	1.04E-10	1.14E-11	3.91E-11	4.70E-14	5.05E-11
5295	421011.5	3733775	1.37E-10	6.29E-10	1.37E-12	7.67E-10	1.88E-11	8.60E-11	2.05E-13	1.05E-10	1.16E-11	3.95E-11	4.75E-14	5.11E-11
5296	421019.3	3733780	1.39E-10	6.36E-10	1.39E-12	7.76E-10	1.91E-11	8.69E-11	2.07E-13	1.06E-10	1.17E-11	4.00E-11	4.81E-14	5.17E-11
5297	421027.2	3733785	1.41E-10	6.43E-10	1.41E-12	7.85E-10	1.93E-11	8.80E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
5298	421035.1	3733790	1.42E-10	6.51E-10	1.42E-12	7.94E-10	1.95E-11	8.90E-11	2.12E-13	1.09E-10	1.20E-11	4.09E-11	4.92E-14	5.29E-11
5299	421043	3733795	1.44E-10	6.58E-10	1.44E-12	8.04E-10	1.97E-11	9.00E-11	2.14E-13	1.10E-10	1.21E-11	4.14E-11	4.97E-14	5.35E-11
5300	421050.8	3733799	1.46E-10	6.65E-10	1.45E-12	8.12E-10	1.99E-11	9.10E-11	2.17E-13	1.11E-10	1.22E-11	4.18E-11	5.03E-14	5.41E-11
5301	421058.7	3733804	1.47E-10	6.73E-10	1.47E-12	8.22E-10	2.02E-11	9.20E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.09E-14	5.47E-11
5302	421066.6	3733809	1.49E-10	6.80E-10	1.49E-12	8.31E-10	2.04E-11	9.30E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.14E-14	5.53E-11
5303	421074.5	3733814	1.50E-10	6.88E-10	1.50E-12	8.40E-10	2.06E-11	9.40E-11	2.24E-13	1.15E-10	1.27E-11	4.32E-11	5.20E-14	5.59E-11
5304	421082.4	3733818	1.52E-10	6.95E-10	1.52E-12	8.48E-10	2.08E-11	9.50E-11	2.26E-13	1.16E-10	1.28E-11	4.37E-11	5.25E-14	5.65E-11
5305	421090.2	3733823	1.54E-10	7.02E-10	1.53E-12	8.57E-10	2.11E-11	9.60E-11	2.29E-13	1.17E-10	1.29E-11	4.41E-11	5.31E-14	5.71E-11
5306	421098.1	3733828	1.55E-10	7.09E-10	1.55E-12	8.66E-10	2.13E-11	9.70E-11	2.31E-13	1.19E-10	1.31E-11	4.46E-11	5.36E-14	5.77E-11
5307	421106	3733833	1.57E-10	7.16E-10	1.57E-12	8.75E-10	2.15E-11	9.80E-11	2.33E-13	1.20E-10	1.32E-11	4.50E-11	5.41E-14	5.83E-11
5308	421113.9	3733837	1.58E-10	7.23E-10	1.58E-12	8.83E-10	2.17E-11	9.89E-11	2.36E-13	1.21E-10	1.33E-11	4.55E-11	5.47E-14	5.88E-11
5309	421121.7	3733842	1.60E-10	7.30E-10	1.60E-12	8.91E-10	2.19E-11	9.98E-11	2.38E-13	1.22E-10	1.34E-11	4.59E-11	5.52E-14	5.94E-11
5310	421129.6	3733847	1.61E-10	7.37E-10	1.61E-12	8.99E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.63E-11	5.57E-14	5.99E-11
5311	421137.5	3733852	1.62E-10	7.43E-10	1.62E-12	9.07E-10	2.23E-11	1.02E-10	2.42E-13	1.24E-10	1.37E-11	4.67E-11	5.61E-14	6.04E-11
5312	421145.4	3733857	1.64E-10	7.49E-10	1.64E-12	9.14E-10	2.25E-11	1.02E-10	2.44E-13	1.25E-10	1.38E-11	4.71E-11	5.66E-14	6.09E-11
5313	421153.2	3733861	1.65E-10	7.54E-10	1.65E-12	9.21E-10	2.26E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.74E-11	5.70E-14	6.14E-11
5314	421161.1	3733866	1.66E-10	7.60E-10	1.66E-12	9.27E-10	2.28E-11	1.04E-10	2.47E-13	1.27E-10	1.40E-11	4.77E-11	5.74E-14	6.18E-11
5315	421169	3733871	1.67E-10	7.65E-10	1.67E-12	9.34E-10	2.29E-11	1.05E-10	2.49E-13	1.28E-10	1.41E-11	4.81E-11	5.78E-14	6.22E-11
5316	421176.9	3733876	1.68E-10	7.69E-10	1.68E-12	9.39E-10	2.31E-11	1.05E-10	2.50E-13	1.28E-10	1.41E-11	4.83E-11	5.81E-14	6.25E-11
5317	421184.7	3733880	1.69E-10	7.73E-10	1.69E-12	9.44E-10	2.32E-11	1.06E-10	2.52E-13	1.29E-10	1.42E-11	4.86E-11	5.84E-14	6.29E-11
5318	421192.6	3733885	1.70E-10	7.77E-10	1.70E-12	9.49E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.87E-14	6.32E-11
5319	421200.5	3733890	1.71E-10	7.81E-10	1.71E-12	9.53E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.44E-11	4.91E-11	5.90E-14	6.35E-11
5320	421208.4	3733895	1.71E-10	7.84E-10	1.71E-12	9.57E-10	2.35E-11	1.07E-10	2.55E-13	1.31E-10	1.44E-11	4.93E-11	5.92E-14	6.37E-11
5321	421216.3	3733900	1.72E-10	7.86E-10	1.72E-12	9.60E-10	2.36E-11	1.08E-10	2.56E-13	1.31E-10	1.45E-11	4.94E-11	5.94E-14	6.40E-11
5322	421255.2	3733991	2.02E-10	9.21E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.70E-11	5.79E-11	6.96E-14	7.49E-11
5323	421258.3	3734000	2.04E-10	9.34E-10	2.04E-12	1.14E-09	2.80E-11	1.28E-10	3.04E-13	1.56E-10	1.72E-11	5.87E-11	7.06E-14	7.60E-11
5324	421261.5	3734008	2.07E-10	9.47E-10	2.07E-12	1.16E-09	2.84E-11	1.29E-10	3.08E-13	1.58E-10	1.74E-11	5.95E-11	7.15E-14	7.70E-11
5325	421264.6	3734017	2.10E-10	9.59E-10	2.10E-12	1.17E-09	2.87E-11	1.31E-10	3.12E-13	1.60E-10	1.76E-11	6.03E-11	7.25E-14	7.80E-11

5326	421267.7	3734026	2.12E-10	9.71E-10	2.12E-12	1.19E-09	2.91E-11	1.33E-10	3.16E-13	1.62E-10	1.79E-11	6.10E-11	7.34E-14	7.90E-11
5327	421270.8	3734034	2.15E-10	9.83E-10	2.15E-12	1.20E-09	2.95E-11	1.34E-10	3.20E-13	1.64E-10	1.81E-11	6.18E-11	7.43E-14	7.99E-11
5328	421273.9	3734043	2.18E-10	9.94E-10	2.17E-12	1.21E-09	2.98E-11	1.36E-10	3.24E-13	1.66E-10	1.83E-11	6.25E-11	7.52E-14	8.09E-11
5329	421277	3734052	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.32E-11	7.61E-14	8.18E-11
5330	421280.1	3734060	2.23E-10	1.02E-09	2.23E-12	1.24E-09	3.05E-11	1.39E-10	3.31E-13	1.70E-10	1.87E-11	6.40E-11	7.69E-14	8.28E-11
5331	421283.2	3734069	2.25E-10	1.03E-09	2.25E-12	1.26E-09	3.09E-11	1.41E-10	3.35E-13	1.72E-10	1.89E-11	6.47E-11	7.78E-14	8.37E-11
5332	421286.3	3734078	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.12E-11	1.42E-10	3.39E-13	1.74E-10	1.92E-11	6.54E-11	7.87E-14	8.47E-11
5333	421289.4	3734086	2.30E-10	1.05E-09	2.30E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.62E-11	7.96E-14	8.56E-11
5334	421292.6	3734095	2.32E-10	1.06E-09	2.32E-12	1.30E-09	3.19E-11	1.45E-10	3.46E-13	1.78E-10	1.96E-11	6.68E-11	8.03E-14	8.64E-11
5335	421295.7	3734104	2.35E-10	1.07E-09	2.35E-12	1.31E-09	3.22E-11	1.47E-10	3.50E-13	1.80E-10	1.98E-11	6.75E-11	8.12E-14	8.74E-11
5336	421298.8	3734112	2.38E-10	1.09E-09	2.38E-12	1.33E-09	3.26E-11	1.49E-10	3.54E-13	1.82E-10	2.00E-11	6.84E-11	8.23E-14	8.85E-11
5337	421301.9	3734121	2.41E-10	1.10E-09	2.41E-12	1.34E-09	3.30E-11	1.50E-10	3.58E-13	1.84E-10	2.02E-11	6.92E-11	8.32E-14	8.95E-11
5338	421305	3734130	2.43E-10	1.11E-09	2.43E-12	1.36E-09	3.34E-11	1.52E-10	3.62E-13	1.86E-10	2.05E-11	7.00E-11	8.41E-14	9.05E-11
5339	421308.1	3734138	2.46E-10	1.13E-09	2.46E-12	1.37E-09	3.38E-11	1.54E-10	3.67E-13	1.88E-10	2.07E-11	7.08E-11	8.51E-14	9.16E-11
5340	421311.2	3734147	2.49E-10	1.14E-09	2.49E-12	1.39E-09	3.42E-11	1.56E-10	3.71E-13	1.90E-10	2.10E-11	7.16E-11	8.61E-14	9.27E-11
5341	421314.3	3734156	2.52E-10	1.15E-09	2.52E-12	1.41E-09	3.46E-11	1.58E-10	3.76E-13	1.93E-10	2.12E-11	7.25E-11	8.72E-14	9.38E-11
5342	421317.4	3734164	2.55E-10	1.17E-09	2.55E-12	1.43E-09	3.50E-11	1.60E-10	3.80E-13	1.95E-10	2.15E-11	7.34E-11	8.83E-14	9.50E-11
5343	421320.5	3734173	2.59E-10	1.18E-09	2.59E-12	1.44E-09	3.55E-11	1.62E-10	3.85E-13	1.98E-10	2.18E-11	7.44E-11	8.94E-14	9.62E-11
5344	421323.7	3734182	2.62E-10	1.20E-09	2.62E-12	1.46E-09	3.60E-11	1.64E-10	3.90E-13	2.00E-10	2.21E-11	7.54E-11	9.06E-14	9.75E-11
5345	421326.8	3734190	2.66E-10	1.22E-09	2.66E-12	1.48E-09	3.65E-11	1.66E-10	3.96E-13	2.03E-10	2.24E-11	7.64E-11	9.19E-14	9.89E-11
5346	421329.9	3734199	2.70E-10	1.23E-09	2.70E-12	1.51E-09	3.70E-11	1.69E-10	4.02E-13	2.06E-10	2.27E-11	7.75E-11	9.32E-14	1.00E-10
5347	421333	3734208	2.74E-10	1.25E-09	2.74E-12	1.53E-09	3.75E-11	1.71E-10	4.08E-13	2.09E-10	2.30E-11	7.87E-11	9.47E-14	1.02E-10
5348	421336.1	3734216	2.78E-10	1.27E-09	2.78E-12	1.55E-09	3.81E-11	1.74E-10	4.14E-13	2.12E-10	2.34E-11	7.99E-11	9.61E-14	1.03E-10
5349	421339.2	3734225	2.83E-10	1.29E-09	2.83E-12	1.58E-09	3.87E-11	1.77E-10	4.21E-13	2.16E-10	2.38E-11	8.12E-11	9.77E-14	1.05E-10
5350	421342.3	3734234	2.87E-10	1.31E-09	2.87E-12	1.60E-09	3.94E-11	1.80E-10	4.28E-13	2.20E-10	2.42E-11	8.26E-11	9.93E-14	1.07E-10
5351	421345.4	3734242	2.93E-10	1.34E-09	2.92E-12	1.63E-09	4.01E-11	1.83E-10	4.35E-13	2.23E-10	2.46E-11	8.41E-11	1.01E-13	1.09E-10
5352	421361	3734286	3.21E-10	1.47E-09	3.20E-12	1.79E-09	4.40E-11	2.00E-10	4.77E-13	2.45E-10	2.70E-11	9.21E-11	1.11E-13	1.19E-10
5353	420869.7	3733690	1.11E-10	5.05E-10	1.10E-12	6.17E-10	1.52E-11	6.91E-11	1.65E-13	8.44E-11	9.30E-12	3.18E-11	3.82E-14	4.11E-11
5354	420860.6	3733688	1.10E-10	5.02E-10	1.10E-12	6.13E-10	1.51E-11	6.87E-11	1.64E-13	8.39E-11	9.24E-12	3.16E-11	3.80E-14	4.08E-11
5355	420851.6	3733686	1.09E-10	4.99E-10	1.09E-12	6.09E-10	1.50E-11	6.82E-11	1.62E-13	8.34E-11	9.18E-12	3.14E-11	3.77E-14	4.06E-11
5356	420909.2	3733669	1.06E-10	4.84E-10	1.06E-12	5.91E-10	1.45E-11	6.62E-11	1.58E-13	8.09E-11	8.91E-12	3.04E-11	3.66E-14	3.94E-11
5357	420917.1	3733674	1.07E-10	4.90E-10	1.07E-12	5.98E-10	1.47E-11	6.70E-11	1.60E-13	8.19E-11	9.02E-12	3.08E-11	3.70E-14	3.99E-11
5358	420925	3733679	1.08E-10	4.96E-10	1.08E-12	6.05E-10	1.49E-11	6.78E-11	1.61E-13	8.28E-11	9.12E-12	3.12E-11	3.75E-14	4.03E-11
5359	420932.8	3733684	1.10E-10	5.01E-10	1.10E-12	6.12E-10	1.50E-11	6.86E-11	1.63E-13	8.38E-11	9.23E-12	3.15E-11	3.79E-14	4.08E-11
5360	420940.7	3733688	1.11E-10	5.07E-10	1.11E-12	6.19E-10	1.52E-11	6.94E-11	1.65E-13	8.47E-11	9.33E-12	3.19E-11	3.83E-14	4.13E-11
5361	420972.1	3733708	1.16E-10	5.31E-10	1.16E-12	6.48E-10	1.59E-11	7.26E-11	1.73E-13	8.86E-11	9.76E-12	3.33E-11	4.01E-14	4.32E-11
5362	420980	3733712	1.17E-10	5.37E-10	1.17E-12	6.55E-10	1.61E-11	7.34E-11	1.75E-13	8.96E-11	9.87E-12	3.37E-11	4.06E-14	4.36E-11
5363	420987.8	3733717	1.19E-10	5.43E-10	1.19E-12	6.63E-10	1.63E-11	7.42E-11	1.77E-13	9.07E-11	9.99E-12	3.41E-11	4.10E-14	4.41E-11
5364	420995.7	3733722	1.20E-10	5.49E-10	1.20E-12	6.70E-10	1.64E-11	7.50E-11	1.79E-13	9.16E-11	1.01E-11	3.45E-11	4.15E-14	4.46E-11
5365	421003.6	3733727	1.21E-10	5.55E-10	1.21E-12	6.77E-10	1.66E-11	7.59E-11	1.81E-13	9.27E-11	1.02E-11	3.49E-11	4.19E-14	4.51E-11
5366	421027.1	3733741	1.25E-10	5.73E-10	1.25E-12	7.00E-10	1.72E-11	7.84E-11	1.87E-13	9.58E-11	1.05E-11	3.60E-11	4.33E-14	4.66E-11
5367	421035	3733746	1.27E-10	5.79E-10	1.27E-12	7.07E-10	1.74E-11	7.92E-11	1.89E-13	9.68E-11	1.07E-11	3.64E-11	4.38E-14	4.71E-11
5368	421042.9	3733750	1.28E-10	5.86E-10	1.28E-12	7.15E-10	1.76E-11	8.01E-11	1.91E-13	9.79E-11	1.08E-11	3.68E-11	4.43E-14	4.77E-11
5369	421050.7	3733755	1.30E-10	5.92E-10	1.29E-12	7.23E-10	1.78E-11	8.10E-11	1.93E-13	9.90E-11	1.09E-11	3.72E-11	4.48E-14	4.82E-11
5370	421058.6	3733760	1.31E-10	5.99E-10	1.31E-12	7.31E-10	1.79E-11	8.18E-11	1.95E-13	1.00E-10	1.10E-11	3.76E-11	4.52E-14	4.87E-11
5371	421066.4	3733765	1.32E-10	6.05E-10	1.32E-12	7.39E-10	1.81E-11	8.27E-11	1.97E-13	1.01E-10	1.11E-11	3.80E-11	4.57E-14	4.92E-11
5372	421074.3	3733769	1.34E-10	6.11E-10	1.34E-12	7.46E-10	1.83E-11	8.36E-11	1.99E-13	1.02E-10	1.13E-11	3.84E-11	4.62E-14	4.97E-11
5373	421082.2	3733774	1.35E-10	6.18E-10	1.35E-12	7.54E-10	1.85E-11	8.45E-11	2.01E-13	1.03E-10	1.14E-11	3.88E-11	4.67E-14	5.02E-11
5374	421090	3733779	1.36E-10	6.24E-10	1.36E-12	7.62E-10	1.87E-11	8.53E-11	2.03E-13	1.04E-10	1.15E-11	3.92E-11	4.72E-14	5.08E-11
5375	421097.9	3733784	1.38E-10	6.30E-10	1.38E-12	7.70E-10	1.89E-11	8.62E-11	2.05E-13	1.05E-10	1.16E-11	3.96E-11	4.77E-14	5.13E-11
5376	421105.7	3733788	1.39E-10	6.37E-10	1.39E-12	7.78E-10	1.91E-11	8.71E-11	2.07E-13	1.06E-10	1.17E-11	4.00E-11	4.81E-14	5.18E-11
5377	421113.6	3733793	1.41E-10	6.43E-10	1.41E-12	7.85E-10	1.93E-11	8.79E-11	2.09E-13	1.07E-10	1.18E-11	4.04E-11	4.86E-14	5.23E-11
5378	421121.5	3733798	1.42E-10	6.49E-10	1.42E-12	7.93E-10	1.95E-11	8.88E-11	2.11E-13	1.08E-10	1.19E-11	4.08E-11	4.91E-14	5.28E-11
5379	421129.3	3733803	1.43E-10	6.55E-10	1.43E-12	8.00E-10	1.96E-11	8.96E-11	2.13E-13	1.09E-10	1.21E-11	4.12E-11	4.95E-14	5.33E-11
5380	421137.2	3733808	1.45E-10	6.61E-10	1.45E-12	8.07E-10	1.98E-11	9.04E-11	2.15E-13	1.10E-10	1.22E-11	4.15E-11	5.00E-14	5.38E-11
5381	421145.1	3733812	1.46E-10	6.67E-10	1.46E-12	8.14E-10	2.00E-11	9.12E-11	2.17E-13	1.11E-10	1.23E-11	4.19E-11	5.04E-14	5.42E-11
5382	421152.9	3733817	1.47E-10	6.72E-10	1.47E-12	8.21E-10	2.02E-11	9.19E-11	2.19E-13	1.12E-10	1.24E-11	4.23E-11	5.08E-14	5.47E-11
5383	421160.8	3733822	1.48E-10	6.78E-10	1.48E-12	8.27E-10	2.03E-11	9.27E-11	2.21E-13	1.13E-10	1.25E-11	4.26E-11	5.12E-14	5.51E-11
5384	421168.6	3733827	1.49E-10	6.83E-10	1.49E-12	8.34E-10	2.05E-11	9.34E-11	2.22E-13	1.14E-10	1.26E-11	4.29E-11	5.16E-14	5.55E-11
5385	421176.5	3733831	1.50E-10	6.88E-10	1.50E-12	8.40E-10	2.06E-11	9.40E-11	2.24E-13	1.15E-10	1.27E-11	4.32E-11	5.20E-14	5.59E-11
5386	421184.4	3733836	1.51E-10	6.92E-10	1.51E-12	8.45E-10	2.08E-11	9.47E-11	2.25E-13	1.16E-10	1.27E-11	4.35E-11	5.23E-14	5.63E-11
5387	421192.2	3733841	1.52E-10	6.97E-10	1.52E-12	8.51E-10	2.09E-11	9.53E-11	2.27E-13	1.16E-10	1.28E-11	4.38E-11	5.27E-14	5.67E-11
5388	421200.1	3733846	1.53E-10	7.01E-10	1.53E-12	8.56E-10	2.10E-11	9.58E-11	2.28E-13	1.17E-10	1.29E-11	4.40E-11	5.30E-14	5.70E-11
5389	421207.9	3733850	1.54E-10	7.05E-10	1.54E-12	8.61E-10	2.11E-11	9.64E-11	2.29E-13	1.18E-10	1.30E-11	4.43E-11	5.33E-14	5.73E-11
5390	421215.8	3733855	1.55E-10	7.08E-10	1.55E-12	8.65E-10	2.12E-11	9.69E-11	2.31E-13	1.18E-10	1.30E-11	4.45E-11	5.35E-14	5.76E-11
5391	421264.4	3733905	1.65E-10	7.54E-10	1.65E-12	9.21E-10	2.26E-11	1.03E-10	2.46E-13	1.26E-10	1.39E-11	4.74E-11	5.70E-14	6.13E-11
5392	421267.5	3733914	1.67E-10	7.65E-10	1.67E-12	9.34E-10	2.29E-11	1.05E-10	2.49E-13	1.28E-10	1.41E-11	4.81E-11	5.78E-14	6.22E-11
5393	421270.6	3733922	1.70E-10	7.76E-10	1.70E-12	9.48E-10	2.33E-11	1.06E-10	2.53E-13	1.30E-10	1.43E-11	4.88E-11	5.87E-14	6.31E-11
5394	421286.1	3733965	1.82E-10	8.31E-10	1.82E-12	1.01E-09	2.49E-11	1.14E-10	2.71E-13	1.39E-10	1.53E-11	5.22E-11	6.28E-14	6.76E-11
5395	421289.2	3733974	1.84E-10	8.42E-10	1.84E-12	1.03E-09	2.52E-11	1.15E-10	2.74E-13	1.41E-10	1.55E-11	5.29E-11	6.36E-14	6.85E-11
5396	421292.3	3733983	1.86E-10	8.52E-10	1.86E-12	1.04E-09	2.56E-11	1.17E-10	2.77E-13	1.42E-10	1.57E-11	5.36E-11	6.44E-14	6.93E-11
5397	421295.5	3733991	1.89E-10	8.62E-10	1.89E-12	1.05E-09	2.59E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.42E-11	6.52E-14	7.01E-11
5398	421298.6	3734000	1.91E-10	8.73E-10	1.91E-12	1.07E-09	2.62E-11	1.19E-10	2.84E-13	1.46E-10	1.61E-11	5.48E-11	6.60E-14	7.10E-11

5399	421301.7	3734009	1.93E-10	8.83E-10	1.93E-12	1.08E-09	2.65E-11	1.21E-10	2.87E-13	1.47E-10	1.62E-11	5.55E-11	6.67E-14	7.18E-11
5400	421304.8	3734017	1.95E-10	8.92E-10	1.95E-12	1.09E-09	2.68E-11	1.22E-10	2.90E-13	1.49E-10	1.64E-11	5.61E-11	6.74E-14	7.26E-11
5401	421307.9	3734026	1.97E-10	9.02E-10	1.97E-12	1.10E-09	2.70E-11	1.23E-10	2.94E-13	1.51E-10	1.66E-11	5.67E-11	6.82E-14	7.33E-11
5402	421311	3734035	1.99E-10	9.12E-10	1.99E-12	1.11E-09	2.73E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.89E-14	7.41E-11
5403	421314.1	3734043	2.01E-10	9.21E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.69E-11	5.79E-11	6.96E-14	7.49E-11
5404	421317.2	3734052	2.04E-10	9.31E-10	2.03E-12	1.14E-09	2.79E-11	1.27E-10	3.03E-13	1.55E-10	1.71E-11	5.85E-11	7.03E-14	7.57E-11
5405	421320.3	3734061	2.06E-10	9.40E-10	2.06E-12	1.15E-09	2.82E-11	1.29E-10	3.06E-13	1.57E-10	1.73E-11	5.91E-11	7.11E-14	7.65E-11
5406	421323.4	3734069	2.08E-10	9.50E-10	2.08E-12	1.16E-09	2.85E-11	1.30E-10	3.09E-13	1.59E-10	1.75E-11	5.97E-11	7.18E-14	7.72E-11
5407	421326.5	3734078	2.10E-10	9.59E-10	2.10E-12	1.17E-09	2.88E-11	1.31E-10	3.12E-13	1.60E-10	1.76E-11	6.03E-11	7.25E-14	7.80E-11
5408	421329.6	3734087	2.12E-10	9.68E-10	2.12E-12	1.18E-09	2.90E-11	1.32E-10	3.15E-13	1.62E-10	1.78E-11	6.09E-11	7.32E-14	7.88E-11
5409	421332.7	3734095	2.14E-10	9.78E-10	2.14E-12	1.19E-09	2.93E-11	1.34E-10	3.18E-13	1.63E-10	1.80E-11	6.15E-11	7.39E-14	7.95E-11
5410	421335.8	3734104	2.16E-10	9.88E-10	2.16E-12	1.21E-09	2.96E-11	1.35E-10	3.22E-13	1.65E-10	1.82E-11	6.21E-11	7.47E-14	8.03E-11
5411	421338.9	3734113	2.18E-10	9.98E-10	2.18E-12	1.22E-09	2.99E-11	1.37E-10	3.25E-13	1.67E-10	1.84E-11	6.28E-11	7.55E-14	8.12E-11
5412	421342	3734121	2.21E-10	1.01E-09	2.21E-12	1.23E-09	3.03E-11	1.38E-10	3.28E-13	1.69E-10	1.86E-11	6.34E-11	7.63E-14	8.21E-11
5413	421345.1	3734130	2.23E-10	1.02E-09	2.23E-12	1.25E-09	3.06E-11	1.40E-10	3.32E-13	1.70E-10	1.88E-11	6.41E-11	7.71E-14	8.30E-11
5414	421348.2	3734139	2.26E-10	1.03E-09	2.25E-12	1.26E-09	3.09E-11	1.41E-10	3.36E-13	1.72E-10	1.90E-11	6.48E-11	7.79E-14	8.39E-11
5415	421351.3	3734147	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.13E-11	1.43E-10	3.40E-13	1.74E-10	1.92E-11	6.55E-11	7.88E-14	8.48E-11
5416	421354.4	3734156	2.31E-10	1.05E-09	2.31E-12	1.29E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.63E-11	7.97E-14	8.58E-11
5417	421357.5	3734164	2.33E-10	1.07E-09	2.33E-12	1.30E-09	3.20E-11	1.46E-10	3.48E-13	1.78E-10	1.96E-11	6.71E-11	8.07E-14	8.68E-11
5418	421360.6	3734173	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.24E-11	1.48E-10	3.52E-13	1.81E-10	1.99E-11	6.79E-11	8.17E-14	8.79E-11
5419	421363.7	3734182	2.40E-10	1.10E-09	2.39E-12	1.34E-09	3.28E-11	1.50E-10	3.57E-13	1.83E-10	2.02E-11	6.88E-11	8.28E-14	8.91E-11
5420	421366.8	3734190	2.43E-10	1.11E-09	2.43E-12	1.35E-09	3.33E-11	1.52E-10	3.61E-13	1.85E-10	2.04E-11	6.97E-11	8.38E-14	9.02E-11
5421	421369.9	3734199	2.46E-10	1.12E-09	2.46E-12	1.37E-09	3.37E-11	1.54E-10	3.66E-13	1.88E-10	2.07E-11	7.07E-11	8.50E-14	9.14E-11
5422	421373.1	3734208	2.49E-10	1.14E-09	2.49E-12	1.39E-09	3.42E-11	1.56E-10	3.71E-13	1.90E-10	2.10E-11	7.16E-11	8.62E-14	9.27E-11
5423	421376.2	3734216	2.53E-10	1.16E-09	2.53E-12	1.41E-09	3.47E-11	1.58E-10	3.77E-13	1.93E-10	2.13E-11	7.27E-11	8.74E-14	9.41E-11
5424	421379.3	3734225	2.56E-10	1.17E-09	2.56E-12	1.43E-09	3.52E-11	1.60E-10	3.82E-13	1.96E-10	2.16E-11	7.37E-11	8.86E-14	9.53E-11
5425	421382.4	3734234	2.60E-10	1.19E-09	2.60E-12	1.45E-09	3.56E-11	1.63E-10	3.87E-13	1.99E-10	2.19E-11	7.47E-11	8.98E-14	9.67E-11
5426	421385.5	3734242	2.64E-10	1.21E-09	2.64E-12	1.47E-09	3.61E-11	1.65E-10	3.92E-13	2.01E-10	2.22E-11	7.58E-11	9.11E-14	9.80E-11
5427	421401	3734286	2.89E-10	1.32E-09	2.89E-12	1.61E-09	3.96E-11	1.81E-10	4.30E-13	2.21E-10	2.43E-11	8.30E-11	9.99E-14	1.07E-10
5428	420877.8	3733650	1.01E-10	4.62E-10	1.01E-12	5.64E-10	1.39E-11	6.32E-11	1.50E-13	7.72E-11	8.50E-12	2.90E-11	3.49E-14	3.76E-11
5429	420868.8	3733648	1.01E-10	4.60E-10	1.00E-12	5.61E-10	1.38E-11	6.28E-11	1.50E-13	7.68E-11	8.46E-12	2.89E-11	3.47E-14	3.74E-11
5430	420859.7	3733647	9.99E-11	4.57E-10	9.99E-13	5.58E-10	1.37E-11	6.25E-11	1.49E-13	7.63E-11	8.41E-12	2.87E-11	3.45E-14	3.72E-11
5431	420893.7	3733616	9.41E-11	4.30E-10	9.41E-13	5.25E-10	1.29E-11	5.88E-11	1.40E-13	7.19E-11	7.92E-12	2.70E-11	3.25E-14	3.50E-11
5432	420917.3	3733630	9.73E-11	4.45E-10	9.72E-13	5.43E-10	1.33E-11	6.08E-11	1.45E-13	7.43E-11	8.18E-12	2.80E-11	3.36E-14	3.62E-11
5433	420925.1	3733635	9.83E-11	4.50E-10	9.83E-13	5.49E-10	1.35E-11	6.15E-11	1.46E-13	7.51E-11	8.27E-12	2.83E-11	3.40E-14	3.66E-11
5434	420933	3733640	9.94E-11	4.54E-10	9.93E-13	5.55E-10	1.36E-11	6.21E-11	1.48E-13	7.59E-11	8.36E-12	2.86E-11	3.43E-14	3.70E-11
5435	420940.8	3733644	1.00E-10	4.59E-10	1.00E-12	5.61E-10	1.38E-11	6.28E-11	1.50E-13	7.67E-11	8.45E-12	2.89E-11	3.47E-14	3.73E-11
5436	420948.7	3733649	1.02E-10	4.64E-10	1.01E-12	5.67E-10	1.39E-11	6.35E-11	1.51E-13	7.75E-11	8.54E-12	2.92E-11	3.51E-14	3.77E-11
5437	420956.5	3733654	1.03E-10	4.69E-10	1.03E-12	5.73E-10	1.41E-11	6.42E-11	1.53E-13	7.84E-11	8.63E-12	2.95E-11	3.55E-14	3.82E-11
5438	420964.4	3733659	1.04E-10	4.74E-10	1.04E-12	5.79E-10	1.42E-11	6.48E-11	1.54E-13	7.92E-11	8.72E-12	2.98E-11	3.58E-14	3.85E-11
5439	420995.7	3733678	1.08E-10	4.94E-10	1.08E-12	6.04E-10	1.48E-11	6.76E-11	1.61E-13	8.26E-11	9.10E-12	3.11E-11	3.74E-14	4.02E-11
5440	421003.6	3733683	1.09E-10	5.00E-10	1.09E-12	6.10E-10	1.50E-11	6.83E-11	1.63E-13	8.34E-11	9.19E-12	3.14E-11	3.78E-14	4.06E-11
5441	421011.4	3733687	1.10E-10	5.05E-10	1.10E-12	6.16E-10	1.51E-11	6.90E-11	1.64E-13	8.43E-11	9.29E-12	3.17E-11	3.82E-14	4.11E-11
5442	421019.3	3733692	1.12E-10	5.10E-10	1.11E-12	6.23E-10	1.53E-11	6.97E-11	1.66E-13	8.52E-11	9.38E-12	3.21E-11	3.85E-14	4.15E-11
5443	421027.1	3733697	1.13E-10	5.15E-10	1.13E-12	6.29E-10	1.55E-11	7.05E-11	1.68E-13	8.61E-11	9.48E-12	3.24E-11	3.89E-14	4.19E-11
5444	421050.7	3733711	1.16E-10	5.31E-10	1.16E-12	6.49E-10	1.59E-11	7.27E-11	1.73E-13	8.88E-11	9.78E-12	3.34E-11	4.02E-14	4.32E-11
5445	421058.5	3733716	1.17E-10	5.37E-10	1.17E-12	6.56E-10	1.61E-11	7.34E-11	1.75E-13	8.97E-11	9.88E-12	3.38E-11	4.06E-14	4.37E-11
5446	421066.4	3733721	1.19E-10	5.42E-10	1.19E-12	6.62E-10	1.63E-11	7.42E-11	1.77E-13	9.06E-11	9.98E-12	3.41E-11	4.10E-14	4.41E-11
5447	421074.2	3733725	1.20E-10	5.48E-10	1.20E-12	6.69E-10	1.64E-11	7.49E-11	1.78E-13	9.16E-11	1.01E-11	3.44E-11	4.14E-14	4.46E-11
5448	421082.1	3733730	1.21E-10	5.54E-10	1.21E-12	6.76E-10	1.66E-11	7.57E-11	1.80E-13	9.25E-11	1.02E-11	3.48E-11	4.18E-14	4.50E-11
5449	421089.9	3733735	1.22E-10	5.59E-10	1.22E-12	6.83E-10	1.68E-11	7.65E-11	1.82E-13	9.34E-11	1.03E-11	3.51E-11	4.23E-14	4.55E-11
5450	421097.8	3733740	1.24E-10	5.65E-10	1.23E-12	6.89E-10	1.69E-11	7.72E-11	1.84E-13	9.43E-11	1.04E-11	3.55E-11	4.27E-14	4.59E-11
5451	421105.6	3733744	1.25E-10	5.70E-10	1.25E-12	6.96E-10	1.71E-11	7.80E-11	1.86E-13	9.53E-11	1.05E-11	3.58E-11	4.31E-14	4.64E-11
5452	421113.4	3733749	1.26E-10	5.76E-10	1.26E-12	7.03E-10	1.73E-11	7.87E-11	1.87E-13	9.62E-11	1.06E-11	3.62E-11	4.35E-14	4.68E-11
5453	421121.3	3733754	1.27E-10	5.81E-10	1.27E-12	7.10E-10	1.74E-11	7.95E-11	1.89E-13	9.71E-11	1.07E-11	3.65E-11	4.39E-14	4.73E-11
5454	421129.1	3733759	1.28E-10	5.87E-10	1.28E-12	7.17E-10	1.76E-11	8.03E-11	1.91E-13	9.81E-11	1.08E-11	3.69E-11	4.44E-14	4.77E-11
5455	421137	3733763	1.30E-10	5.92E-10	1.29E-12	7.23E-10	1.78E-11	8.10E-11	1.93E-13	9.90E-11	1.09E-11	3.72E-11	4.48E-14	4.82E-11
5456	421144.8	3733768	1.31E-10	5.98E-10	1.31E-12	7.30E-10	1.79E-11	8.17E-11	1.95E-13	9.99E-11	1.10E-11	3.76E-11	4.52E-14	4.86E-11
5457	421152.7	3733773	1.32E-10	6.03E-10	1.32E-12	7.36E-10	1.81E-11	8.25E-11	1.96E-13	1.01E-10	1.11E-11	3.79E-11	4.56E-14	4.90E-11
5458	421160.5	3733778	1.33E-10	6.08E-10	1.33E-12	7.43E-10	1.82E-11	8.32E-11	1.98E-13	1.02E-10	1.12E-11	3.82E-11	4.60E-14	4.95E-11
5459	421168.4	3733782	1.34E-10	6.13E-10	1.34E-12	7.48E-10	1.84E-11	8.38E-11	2.00E-13	1.02E-10	1.13E-11	3.85E-11	4.63E-14	4.99E-11
5460	421176.2	3733787	1.35E-10	6.18E-10	1.35E-12	7.54E-10	1.85E-11	8.45E-11	2.01E-13	1.03E-10	1.14E-11	3.88E-11	4.67E-14	5.02E-11
5461	421184.1	3733792	1.36E-10	6.23E-10	1.36E-12	7.60E-10	1.87E-11	8.52E-11	2.03E-13	1.04E-10	1.15E-11	3.91E-11	4.71E-14	5.06E-11
5462	421191.9	3733797	1.37E-10	6.27E-10	1.37E-12	7.66E-10	1.88E-11	8.58E-11	2.04E-13	1.05E-10	1.15E-11	3.94E-11	4.74E-14	5.10E-11
5463	421199.8	3733801	1.38E-10	6.32E-10	1.38E-12	7.71E-10	1.89E-11	8.64E-11	2.06E-13	1.06E-10	1.16E-11	3.97E-11	4.77E-14	5.14E-11
5464	421207.6	3733806	1.39E-10	6.36E-10	1.39E-12	7.76E-10	1.91E-11	8.69E-11	2.07E-13	1.06E-10	1.17E-11	3.99E-11	4.80E-14	5.17E-11
5465	421215.5	3733811	1.40E-10	6.40E-10	1.40E-12	7.81E-10	1.92E-11	8.75E-11	2.08E-13	1.07E-10	1.18E-11	4.02E-11	4.83E-14	5.20E-11
5466	421270.4	3733844	1.44E-10	6.59E-10	1.44E-12	8.05E-10	1.98E-11	9.01E-11	2.15E-13	1.10E-10	1.21E-11	4.14E-11	4.98E-14	5.36E-11
5467	421278.2	3733849	1.45E-10	6.61E-10	1.44E-12	8.07E-10	1.98E-11	9.04E-11	2.15E-13	1.10E-10	1.22E-11	4.15E-11	4.99E-14	5.37E-11
5468	421289.2	3733862	1.47E-10	6.72E-10	1.47E-12	8.20E-10	2.01E-11	9.19E-11	2.19E-13	1.12E-10	1.24E-11	4.22E-11	5.08E-14	5.46E-11
5469	421292.3	3733871	1.49E-10	6.81E-10	1.49E-12	8.32E-10	2.04E-11	9.32E-11	2.22E-13	1.14E-10	1.25E-11	4.28E-11	5.15E-14	5.54E-11
5470	421295.4	3733880	1.51E-10	6.91E-10	1.51E-12	8.43E-10	2.07E-11	9.44E-11	2.25E-13	1.15E-10	1.27E-11	4.34E-11	5.22E-14	5.62E-11
5471	421298.5	3733888	1.53E-10	7.00E-10	1.53E-12	8.55E-10	2.10E-11	9.57E-11	2.28E-13	1.17E-10	1.29E-11	4.40E-11	5.29E-14	5.69E-11

5472	421301.6	3733897	1.55E-10	7.09E-10	1.55E-12	8.66E-10	2.13E-11	9.70E-11	2.31E-13	1.19E-10	1.31E-11	4.46E-11	5.36E-14	5.77E-11
5473	421304.7	3733905	1.57E-10	7.19E-10	1.57E-12	8.77E-10	2.15E-11	9.83E-11	2.34E-13	1.20E-10	1.32E-11	4.52E-11	5.43E-14	5.84E-11
5474	421307.8	3733914	1.59E-10	7.28E-10	1.59E-12	8.88E-10	2.18E-11	9.95E-11	2.37E-13	1.22E-10	1.34E-11	4.57E-11	5.50E-14	5.92E-11
5475	421310.9	3733923	1.61E-10	7.37E-10	1.61E-12	8.99E-10	2.21E-11	1.01E-10	2.40E-13	1.23E-10	1.36E-11	4.63E-11	5.57E-14	5.99E-11
5476	421326.4	3733966	1.71E-10	7.81E-10	1.71E-12	9.53E-10	2.34E-11	1.07E-10	2.54E-13	1.30E-10	1.44E-11	4.91E-11	5.90E-14	6.35E-11
5477	421329.4	3733975	1.73E-10	7.89E-10	1.73E-12	9.64E-10	2.37E-11	1.08E-10	2.57E-13	1.32E-10	1.45E-11	4.96E-11	5.97E-14	6.42E-11
5478	421332.5	3733983	1.75E-10	7.98E-10	1.74E-12	9.74E-10	2.39E-11	1.09E-10	2.60E-13	1.33E-10	1.47E-11	5.02E-11	6.03E-14	6.49E-11
5479	421335.6	3733992	1.76E-10	8.06E-10	1.76E-12	9.84E-10	2.42E-11	1.10E-10	2.63E-13	1.35E-10	1.48E-11	5.07E-11	6.09E-14	6.56E-11
5480	421338.7	3734000	1.78E-10	8.14E-10	1.78E-12	9.94E-10	2.44E-11	1.11E-10	2.65E-13	1.36E-10	1.50E-11	5.12E-11	6.15E-14	6.62E-11
5481	421341.8	3734009	1.80E-10	8.22E-10	1.80E-12	1.00E-09	2.47E-11	1.12E-10	2.68E-13	1.37E-10	1.51E-11	5.17E-11	6.22E-14	6.69E-11
5482	421344.9	3734018	1.82E-10	8.30E-10	1.82E-12	1.01E-09	2.49E-11	1.14E-10	2.70E-13	1.39E-10	1.53E-11	5.22E-11	6.28E-14	6.75E-11
5483	421348	3734026	1.83E-10	8.38E-10	1.83E-12	1.02E-09	2.51E-11	1.15E-10	2.73E-13	1.40E-10	1.54E-11	5.27E-11	6.34E-14	6.82E-11
5484	421351.1	3734035	1.85E-10	8.46E-10	1.85E-12	1.03E-09	2.54E-11	1.16E-10	2.75E-13	1.41E-10	1.56E-11	5.32E-11	6.39E-14	6.88E-11
5485	421354.2	3734044	1.87E-10	8.54E-10	1.87E-12	1.04E-09	2.56E-11	1.17E-10	2.78E-13	1.43E-10	1.57E-11	5.37E-11	6.45E-14	6.94E-11
5486	421357.3	3734052	1.88E-10	8.62E-10	1.88E-12	1.05E-09	2.58E-11	1.18E-10	2.81E-13	1.44E-10	1.59E-11	5.41E-11	6.51E-14	7.01E-11
5487	421360.4	3734061	1.90E-10	8.69E-10	1.90E-12	1.06E-09	2.61E-11	1.19E-10	2.83E-13	1.45E-10	1.60E-11	5.46E-11	6.57E-14	7.07E-11
5488	421363.5	3734070	1.92E-10	8.77E-10	1.92E-12	1.07E-09	2.63E-11	1.20E-10	2.86E-13	1.47E-10	1.61E-11	5.51E-11	6.63E-14	7.13E-11
5489	421366.6	3734078	1.94E-10	8.85E-10	1.94E-12	1.08E-09	2.65E-11	1.21E-10	2.88E-13	1.48E-10	1.63E-11	5.56E-11	6.69E-14	7.20E-11
5490	421369.7	3734087	1.95E-10	8.94E-10	1.95E-12	1.09E-09	2.68E-11	1.22E-10	2.91E-13	1.49E-10	1.64E-11	5.62E-11	6.75E-14	7.27E-11
5491	421372.8	3734095	1.97E-10	9.02E-10	1.97E-12	1.10E-09	2.70E-11	1.23E-10	2.94E-13	1.51E-10	1.66E-11	5.67E-11	6.82E-14	7.34E-11
5492	421375.9	3734104	1.99E-10	9.11E-10	1.99E-12	1.11E-09	2.73E-11	1.25E-10	2.97E-13	1.52E-10	1.68E-11	5.73E-11	6.89E-14	7.41E-11
5493	421379	3734113	2.01E-10	9.20E-10	2.01E-12	1.12E-09	2.76E-11	1.26E-10	3.00E-13	1.54E-10	1.69E-11	5.78E-11	6.95E-14	7.48E-11
5494	421382.1	3734121	2.03E-10	9.29E-10	2.03E-12	1.13E-09	2.79E-11	1.27E-10	3.03E-13	1.55E-10	1.71E-11	5.84E-11	7.03E-14	7.56E-11
5495	421385.2	3734130	2.05E-10	9.39E-10	2.05E-12	1.15E-09	2.82E-11	1.28E-10	3.06E-13	1.57E-10	1.73E-11	5.90E-11	7.10E-14	7.64E-11
5496	421388.3	3734139	2.08E-10	9.50E-10	2.08E-12	1.16E-09	2.85E-11	1.30E-10	3.09E-13	1.59E-10	1.75E-11	5.97E-11	7.18E-14	7.72E-11
5497	421391.4	3734147	2.10E-10	9.60E-10	2.10E-12	1.17E-09	2.88E-11	1.31E-10	3.13E-13	1.60E-10	1.77E-11	6.03E-11	7.26E-14	7.81E-11
5498	421394.5	3734156	2.12E-10	9.71E-10	2.12E-12	1.19E-09	2.91E-11	1.33E-10	3.16E-13	1.62E-10	1.79E-11	6.10E-11	7.34E-14	7.90E-11
5499	421397.6	3734165	2.15E-10	9.83E-10	2.15E-12	1.20E-09	2.95E-11	1.34E-10	3.20E-13	1.64E-10	1.81E-11	6.18E-11	7.43E-14	7.99E-11
5500	421400.7	3734173	2.18E-10	9.94E-10	2.17E-12	1.21E-09	2.98E-11	1.36E-10	3.24E-13	1.66E-10	1.83E-11	6.25E-11	7.52E-14	8.09E-11
5501	421403.8	3734182	2.20E-10	1.01E-09	2.20E-12	1.23E-09	3.02E-11	1.38E-10	3.28E-13	1.68E-10	1.85E-11	6.33E-11	7.61E-14	8.19E-11
5502	421406.9	3734190	2.23E-10	1.02E-09	2.23E-12	1.25E-09	3.06E-11	1.40E-10	3.32E-13	1.70E-10	1.88E-11	6.41E-11	7.71E-14	8.30E-11
5503	421410	3734199	2.26E-10	1.03E-09	2.26E-12	1.26E-09	3.10E-11	1.41E-10	3.37E-13	1.73E-10	1.90E-11	6.50E-11	7.81E-14	8.41E-11
5504	421413.1	3734208	2.28E-10	1.04E-09	2.28E-12	1.27E-09	3.13E-11	1.43E-10	3.40E-13	1.74E-10	1.92E-11	6.56E-11	7.88E-14	8.48E-11
5505	421416.2	3734216	2.30E-10	1.05E-09	2.30E-12	1.28E-09	3.16E-11	1.44E-10	3.43E-13	1.76E-10	1.94E-11	6.61E-11	7.95E-14	8.56E-11
5506	421419.3	3734225	2.33E-10	1.06E-09	2.33E-12	1.30E-09	3.19E-11	1.46E-10	3.47E-13	1.78E-10	1.96E-11	6.69E-11	8.05E-14	8.66E-11
5507	421422.4	3734234	2.36E-10	1.08E-09	2.36E-12	1.32E-09	3.24E-11	1.48E-10	3.51E-13	1.80E-10	1.99E-11	6.78E-11	8.16E-14	8.78E-11
5508	421425.5	3734242	2.40E-10	1.10E-09	2.40E-12	1.34E-09	3.29E-11	1.50E-10	3.57E-13	1.83E-10	2.02E-11	6.89E-11	8.28E-14	8.91E-11
5509	421441	3734285	2.66E-10	1.22E-09	2.66E-12	1.49E-09	3.65E-11	1.66E-10	3.96E-13	2.03E-10	2.24E-11	7.65E-11	9.20E-14	9.90E-11
5510	420885.9	3733611	9.30E-11	4.25E-10	9.30E-13	5.19E-10	1.28E-11	5.82E-11	1.39E-13	7.11E-11	7.83E-12	2.67E-11	3.22E-14	3.46E-11
5511	420876.9	3733609	9.25E-11	4.23E-10	9.25E-13	5.16E-10	1.27E-11	5.78E-11	1.38E-13	7.07E-11	7.78E-12	2.66E-11	3.20E-14	3.44E-11
5512	420867.8	3733607	9.20E-11	4.21E-10	9.19E-13	5.14E-10	1.26E-11	5.75E-11	1.37E-13	7.03E-11	7.74E-12	2.64E-11	3.18E-14	3.42E-11

			T2Rev			T3L3			T4		
			2.48E-02	1.13E-01	2.47E-04	3.39E-03	1.55E-02	3.69E-05	2.08E-03	7.12E-03	8.56E-06
	UTM X	UTM Y	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3	Yr 1	Yr 2	Yr 3
1	420751.4	3734207	8.78E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.52E-05	3.04E-08
2	420754.3	3734197	8.11E-05	3.71E-04	8.10E-07	1.11E-05	5.07E-05	1.21E-07	6.82E-06	2.33E-05	2.80E-08
3	420759.9	3734178	6.96E-05	3.18E-04	6.96E-07	9.54E-06	4.35E-05	1.04E-07	5.86E-06	2.00E-05	2.41E-08
4	420771.2	3734139	5.28E-05	2.41E-04	5.27E-07	7.23E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
5	420776.8	3734120	4.65E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
6	420782.5	3734101	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
7	420788.1	3734082	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
8	420793.8	3734063	3.32E-05	1.52E-04	3.32E-07	4.55E-06	2.08E-05	4.94E-08	2.79E-06	9.54E-06	1.15E-08
9	420799.4	3734044	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.62E-06	1.04E-08
10	420805.1	3734024	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
11	420810.7	3734005	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.57E-09
12	420822	3733967	2.09E-05	9.54E-05	2.09E-07	2.86E-06	1.30E-05	3.11E-08	1.76E-06	5.99E-06	7.21E-09
13	420844.6	3733890	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
14	420855.9	3733852	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
15	420867.2	3733813	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.14E-09
16	420878.5	3733775	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
17	420889.8	3733737	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
18	420901.1	3733698	8.77E-06	4.01E-05	8.77E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
19	420912.4	3733660	8.03E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
20	420923.7	3733621	7.40E-06	3.38E-05	7.39E-08	1.01E-06	4.62E-06	1.10E-08	6.22E-07	2.12E-06	2.56E-09
21	420710.7	3734291	2.03E-04	9.29E-04	2.03E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.84E-05	7.02E-08
22	420710.7	3734301	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.67E-05	8.02E-08
23	420710.6	3734331	3.67E-04	1.68E-03	3.67E-06	5.03E-05	2.29E-04	5.46E-07	3.09E-05	1.05E-04	1.27E-07
24	420710.5	3734341	4.39E-04	2.01E-03	4.39E-06	6.01E-05	2.74E-04	6.53E-07	3.69E-05	1.26E-04	1.52E-07
25	420710.5	3734350	5.34E-04	2.44E-03	5.34E-06	7.32E-05	3.34E-04	7.95E-07	4.50E-05	1.54E-04	1.85E-07
26	420700.7	3734301	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.37E-07	1.90E-05	6.50E-05	7.82E-08
27	420700.6	3734331	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
28	420700.5	3734341	4.25E-04	1.95E-03	4.25E-06	5.83E-05	2.66E-04	6.33E-07	3.58E-05	1.22E-04	1.47E-07
29	420700.5	3734350	5.17E-04	2.37E-03	5.17E-06	7.09E-05	3.24E-04	7.70E-07	4.35E-05	1.49E-04	1.79E-07
30	420690.7	3734301	2.20E-04	1.01E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.60E-08
31	420690.6	3734331	3.44E-04	1.57E-03	3.44E-06	4.72E-05	2.15E-04	5.13E-07	2.90E-05	9.89E-05	1.19E-07
32	420690.5	3734341	4.10E-04	1.88E-03	4.10E-06	5.62E-05	2.56E-04	6.11E-07	3.45E-05	1.18E-04	1.42E-07
33	420690.5	3734350	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
34	420684.7	3734283	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
35	420705.6	3734258	1.35E-04	6.18E-04	1.35E-06	1.85E-05	8.45E-05	2.01E-07	1.14E-05	3.88E-05	4.67E-08
36	420680.7	3734301	2.13E-04	9.76E-04	2.13E-06	2.93E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.38E-08
37	420680.6	3734331	3.32E-04	1.52E-03	3.32E-06	4.55E-05	2.08E-04	4.94E-07	2.79E-05	9.54E-05	1.15E-07
38	420680.5	3734341	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.87E-07	3.32E-05	1.13E-04	1.36E-07
39	420680.5	3734350	4.75E-04	2.17E-03	4.75E-06	6.52E-05	2.97E-04	7.08E-07	4.00E-05	1.37E-04	1.64E-07
40	420674.7	3734283	1.67E-04	7.65E-04	1.67E-06	2.29E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.78E-08
41	420699.6	3734250	1.23E-04	5.61E-04	1.23E-06	1.68E-05	7.67E-05	1.83E-07	1.03E-05	3.52E-05	4.24E-08
42	420717.2	3734247	1.23E-04	5.62E-04	1.23E-06	1.68E-05	7.68E-05	1.83E-07	1.03E-05	3.53E-05	4.25E-08
43	420670.7	3734301	2.07E-04	9.47E-04	2.07E-06	2.84E-05	1.29E-04	3.08E-07	1.74E-05	5.95E-05	7.16E-08
44	420670.6	3734331	3.20E-04	1.46E-03	3.20E-06	4.38E-05	2.00E-04	4.76E-07	2.69E-05	9.19E-05	1.10E-07
45	420670.5	3734340	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.63E-07	3.18E-05	1.09E-04	1.31E-07
46	420670.5	3734350	4.53E-04	2.07E-03	4.53E-06	6.22E-05	2.83E-04	6.75E-07	3.81E-05	1.30E-04	1.57E-07
47	420664.7	3734283	1.63E-04	7.45E-04	1.63E-06	2.23E-05	1.02E-04	2.42E-07	1.37E-05	4.68E-05	5.63E-08
48	420680.8	3734251	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.46E-05	1.78E-07	1.00E-05	3.43E-05	4.13E-08
49	420693.7	3734242	1.12E-04	5.10E-04	1.12E-06	1.53E-05	6.98E-05	1.66E-07	9.39E-06	3.21E-05	3.86E-08
50	420711.3	3734239	1.12E-04	5.13E-04	1.12E-06	1.54E-05	7.01E-05	1.67E-07	9.44E-06	3.22E-05	3.88E-08
51	420728.9	3734235	1.12E-04	5.12E-04	1.12E-06	1.53E-05	7.00E-05	1.67E-07	9.42E-06	3.22E-05	3.87E-08
52	420660.7	3734301	2.01E-04	9.19E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
53	420660.6	3734331	3.08E-04	1.41E-03	3.08E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
54	420660.5	3734340	3.62E-04	1.66E-03	3.62E-06	4.97E-05	2.26E-04	5.39E-07	3.05E-05	1.04E-04	1.25E-07
55	420660.5	3734350	4.32E-04	1.97E-03	4.31E-06	5.92E-05	2.70E-04	6.42E-07	3.63E-05	1.24E-04	1.49E-07

56	420654.7	3734283	1.59E-04	7.25E-04	1.59E-06	2.17E-05	9.92E-05	2.36E-07	1.33E-05	4.56E-05	5.48E-08
57	420670.8	3734251	1.17E-04	5.33E-04	1.17E-06	1.60E-05	7.29E-05	1.74E-07	9.81E-06	3.35E-05	4.03E-08
58	420687.7	3734234	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.58E-06	2.93E-05	3.52E-08
59	420705.3	3734231	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.63E-06	2.95E-05	3.55E-08
60	420722.9	3734227	1.03E-04	4.70E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
61	420650.7	3734301	1.95E-04	8.93E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.64E-05	5.61E-05	6.75E-08
62	420650.6	3734331	2.96E-04	1.35E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.51E-05	1.02E-07
63	420650.5	3734340	3.47E-04	1.58E-03	3.46E-06	4.75E-05	2.17E-04	5.16E-07	2.92E-05	9.96E-05	1.20E-07
64	420650.5	3734350	4.10E-04	1.87E-03	4.09E-06	5.62E-05	2.56E-04	6.10E-07	3.45E-05	1.18E-04	1.42E-07
65	420644.7	3734283	1.55E-04	7.07E-04	1.55E-06	2.12E-05	9.67E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
66	420660.8	3734251	1.14E-04	5.21E-04	1.14E-06	1.56E-05	7.12E-05	1.69E-07	9.58E-06	3.27E-05	3.93E-08
67	420668.9	3734235	9.93E-05	4.54E-04	9.92E-07	1.36E-05	6.21E-05	1.48E-07	8.35E-06	2.85E-05	3.43E-08
68	420681.7	3734226	9.34E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.68E-05	3.23E-08
69	420699.3	3734222	9.41E-05	4.30E-04	9.41E-07	1.29E-05	5.88E-05	1.40E-07	7.92E-06	2.70E-05	3.25E-08
70	420716.9	3734219	9.45E-05	4.32E-04	9.44E-07	1.29E-05	5.91E-05	1.41E-07	7.95E-06	2.71E-05	3.26E-08
71	420734.5	3734216	9.41E-05	4.30E-04	9.41E-07	1.29E-05	5.88E-05	1.40E-07	7.92E-06	2.70E-05	3.25E-08
72	420640.7	3734301	1.90E-04	8.68E-04	1.90E-06	2.60E-05	1.19E-04	2.83E-07	1.60E-05	5.46E-05	6.56E-08
73	420640.6	3734330	2.85E-04	1.30E-03	2.85E-06	3.90E-05	1.78E-04	4.24E-07	2.39E-05	8.18E-05	9.84E-08
74	420640.5	3734340	3.31E-04	1.51E-03	3.31E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
75	420640.5	3734350	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.76E-07	3.26E-05	1.11E-04	1.34E-07
76	420650.8	3734251	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.96E-05	1.66E-07	9.36E-06	3.20E-05	3.85E-08
77	420658.9	3734235	9.71E-05	4.44E-04	9.71E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
78	420675.7	3734218	8.59E-05	3.93E-04	8.58E-07	1.18E-05	5.37E-05	1.28E-07	7.22E-06	2.47E-05	2.97E-08
79	420693.3	3734214	8.65E-05	3.96E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
80	420710.9	3734211	8.70E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.32E-06	2.50E-05	3.01E-08
81	420728.5	3734208	8.70E-05	3.98E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.32E-06	2.50E-05	3.01E-08
82	420640.8	3734251	1.09E-04	4.98E-04	1.09E-06	1.49E-05	6.81E-05	1.62E-07	9.16E-06	3.13E-05	3.76E-08
83	420648.9	3734235	9.50E-05	4.35E-04	9.50E-07	1.30E-05	5.94E-05	1.41E-07	8.00E-06	2.73E-05	3.28E-08
84	420657	3734219	8.37E-05	3.83E-04	8.37E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.41E-05	2.89E-08
85	420669.8	3734210	7.92E-05	3.62E-04	7.91E-07	1.09E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.74E-08
86	420687.4	3734206	7.98E-05	3.65E-04	7.98E-07	1.09E-05	4.99E-05	1.19E-07	6.72E-06	2.29E-05	2.76E-08
87	420705	3734203	8.04E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
88	420722.6	3734200	8.05E-05	3.68E-04	8.04E-07	1.10E-05	5.03E-05	1.20E-07	6.77E-06	2.31E-05	2.78E-08
89	420635.9	3734221	8.18E-05	3.74E-04	8.18E-07	1.12E-05	5.11E-05	1.22E-07	6.88E-06	2.35E-05	2.83E-08
90	420640.2	3734213	7.66E-05	3.50E-04	7.65E-07	1.05E-05	4.79E-05	1.14E-07	6.44E-06	2.20E-05	2.65E-08
91	420644.6	3734204	7.18E-05	3.28E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.04E-06	2.06E-05	2.48E-08
92	420658.6	3734193	6.78E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.34E-08
93	420668.2	3734192	6.82E-05	3.12E-04	6.81E-07	9.34E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.36E-08
94	420677.8	3734190	6.85E-05	3.13E-04	6.84E-07	9.39E-06	4.28E-05	1.02E-07	5.76E-06	1.97E-05	2.37E-08
95	420687.4	3734188	6.88E-05	3.15E-04	6.88E-07	9.43E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
96	420697	3734187	6.91E-05	3.16E-04	6.90E-07	9.47E-06	4.32E-05	1.03E-07	5.81E-06	1.98E-05	2.39E-08
97	420706.6	3734185	6.92E-05	3.17E-04	6.92E-07	9.49E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.39E-08
98	420716.2	3734183	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.40E-08
99	420725.8	3734181	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.40E-08
100	420735.4	3734180	6.92E-05	3.16E-04	6.91E-07	9.48E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
101	420600.7	3734291	1.50E-04	6.88E-04	1.50E-06	2.06E-05	9.40E-05	2.24E-07	1.27E-05	4.32E-05	5.20E-08
102	420600.7	3734301	1.68E-04	7.66E-04	1.68E-06	2.30E-05	1.05E-04	2.49E-07	1.41E-05	4.82E-05	5.79E-08
103	420600.6	3734311	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.47E-08
104	420600.6	3734320	2.10E-04	9.58E-04	2.09E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.02E-05	7.24E-08
105	420600.6	3734330	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
106	420600.5	3734340	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
107	420600.5	3734350	2.95E-04	1.35E-03	2.95E-06	4.05E-05	1.85E-04	4.39E-07	2.48E-05	8.48E-05	1.02E-07
108	420602.4	3734248	9.75E-05	4.46E-04	9.74E-07	1.34E-05	6.09E-05	1.45E-07	8.20E-06	2.80E-05	3.37E-08
109	420606.7	3734239	9.10E-05	4.16E-04	9.09E-07	1.25E-05	5.69E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
110	420646.6	3734177	5.87E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.94E-06	1.69E-05	2.03E-08
111	420656	3734176	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
112	420665.5	3734174	5.92E-05	2.71E-04	5.92E-07	8.12E-06	3.70E-05	8.81E-08	4.98E-06	1.70E-05	2.05E-08
113	420675	3734172	5.95E-05	2.72E-04	5.94E-07	8.15E-06	3.72E-05	8.85E-08	5.00E-06	1.71E-05	2.06E-08
114	420684.5	3734171	5.97E-05	2.73E-04	5.97E-07	8.19E-06	3.73E-05	8.89E-08	5.03E-06	1.72E-05	2.06E-08

115	420580.7	3734291	1.40E-04	6.42E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
116	420580.7	3734301	1.55E-04	7.09E-04	1.55E-06	2.13E-05	9.70E-05	2.31E-07	1.31E-05	4.46E-05	5.36E-08
117	420580.6	3734311	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
118	420580.6	3734320	1.89E-04	8.65E-04	1.89E-06	2.59E-05	1.18E-04	2.82E-07	1.59E-05	5.43E-05	6.53E-08
119	420580.6	3734330	2.09E-04	9.53E-04	2.08E-06	2.86E-05	1.30E-04	3.10E-07	1.75E-05	5.99E-05	7.21E-08
120	420580.5	3734340	2.30E-04	1.05E-03	2.29E-06	3.15E-05	1.43E-04	3.42E-07	1.93E-05	6.60E-05	7.93E-08
121	420580.5	3734350	2.52E-04	1.15E-03	2.52E-06	3.45E-05	1.57E-04	3.75E-07	2.12E-05	7.24E-05	8.70E-08
122	420582.2	3734248	9.36E-05	4.28E-04	9.35E-07	1.28E-05	5.85E-05	1.39E-07	7.87E-06	2.69E-05	3.23E-08
123	420586.5	3734240	8.76E-05	4.01E-04	8.76E-07	1.20E-05	5.48E-05	1.30E-07	7.37E-06	2.52E-05	3.03E-08
124	420590.8	3734231	8.23E-05	3.76E-04	8.22E-07	1.13E-05	5.14E-05	1.22E-07	6.92E-06	2.36E-05	2.84E-08
125	420595.1	3734223	7.71E-05	3.53E-04	7.71E-07	1.06E-05	4.82E-05	1.15E-07	6.49E-06	2.22E-05	2.66E-08
126	420599.4	3734214	7.23E-05	3.31E-04	7.23E-07	9.91E-06	4.52E-05	1.08E-07	6.09E-06	2.08E-05	2.50E-08
127	420603.7	3734206	6.80E-05	3.11E-04	6.80E-07	9.32E-06	4.25E-05	1.01E-07	5.72E-06	1.95E-05	2.35E-08
128	420608	3734197	6.40E-05	2.93E-04	6.40E-07	8.78E-06	4.00E-05	9.53E-08	5.39E-06	1.84E-05	2.21E-08
129	420700.2	3734150	5.27E-05	2.41E-04	5.27E-07	7.22E-06	3.29E-05	7.84E-08	4.43E-06	1.51E-05	1.82E-08
130	420709.6	3734148	5.28E-05	2.41E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
131	420719	3734146	5.29E-05	2.42E-04	5.29E-07	7.25E-06	3.31E-05	7.87E-08	4.45E-06	1.52E-05	1.83E-08
132	420728.4	3734145	5.29E-05	2.42E-04	5.28E-07	7.25E-06	3.30E-05	7.87E-08	4.45E-06	1.52E-05	1.83E-08
133	420737.7	3734143	5.28E-05	2.41E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.82E-08
134	420756.5	3734140	5.24E-05	2.39E-04	5.23E-07	7.18E-06	3.27E-05	7.80E-08	4.41E-06	1.50E-05	1.81E-08
135	420560.7	3734291	1.29E-04	5.91E-04	1.29E-06	1.77E-05	8.08E-05	1.92E-07	1.09E-05	3.71E-05	4.47E-08
136	420560.7	3734301	1.42E-04	6.49E-04	1.42E-06	1.95E-05	8.87E-05	2.11E-07	1.19E-05	4.08E-05	4.90E-08
137	420560.6	3734310	1.55E-04	7.08E-04	1.55E-06	2.12E-05	9.68E-05	2.30E-07	1.30E-05	4.45E-05	5.35E-08
138	420560.6	3734320	1.68E-04	7.70E-04	1.68E-06	2.31E-05	1.05E-04	2.51E-07	1.42E-05	4.84E-05	5.82E-08
139	420560.6	3734330	1.83E-04	8.36E-04	1.83E-06	2.51E-05	1.14E-04	2.72E-07	1.54E-05	5.25E-05	6.32E-08
140	420560.5	3734340	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.84E-08
141	420560.5	3734350	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
142	420562	3734248	8.93E-05	4.08E-04	8.93E-07	1.22E-05	5.58E-05	1.33E-07	7.52E-06	2.57E-05	3.09E-08
143	420566.3	3734240	8.43E-05	3.85E-04	8.42E-07	1.16E-05	5.27E-05	1.25E-07	7.09E-06	2.42E-05	2.91E-08
144	420570.6	3734232	7.92E-05	3.62E-04	7.92E-07	1.09E-05	4.95E-05	1.18E-07	6.67E-06	2.28E-05	2.74E-08
145	420574.8	3734223	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.58E-08
146	420579.1	3734215	7.04E-05	3.22E-04	7.04E-07	9.66E-06	4.40E-05	1.05E-07	5.93E-06	2.02E-05	2.43E-08
147	420583.3	3734206	6.63E-05	3.03E-04	6.63E-07	9.09E-06	4.15E-05	9.87E-08	5.58E-06	1.91E-05	2.29E-08
148	420587.6	3734198	6.25E-05	2.86E-04	6.25E-07	8.57E-06	3.91E-05	9.30E-08	5.26E-06	1.80E-05	2.16E-08
149	420591.9	3734189	5.90E-05	2.70E-04	5.89E-07	8.08E-06	3.69E-05	8.78E-08	4.96E-06	1.69E-05	2.04E-08
150	420596.1	3734181	5.57E-05	2.55E-04	5.56E-07	7.63E-06	3.48E-05	8.29E-08	4.68E-06	1.60E-05	1.92E-08
151	420600.4	3734172	5.27E-05	2.41E-04	5.26E-07	7.22E-06	3.29E-05	7.84E-08	4.43E-06	1.51E-05	1.82E-08
152	420631.8	3734144	4.52E-05	2.07E-04	4.52E-07	6.20E-06	2.83E-05	6.73E-08	3.80E-06	1.30E-05	1.56E-08
153	420641.1	3734142	4.54E-05	2.07E-04	4.53E-07	6.22E-06	2.84E-05	6.75E-08	3.82E-06	1.30E-05	1.57E-08
154	420650.4	3734140	4.55E-05	2.08E-04	4.55E-07	6.24E-06	2.85E-05	6.78E-08	3.83E-06	1.31E-05	1.57E-08
155	420659.8	3734139	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
156	420669.1	3734137	4.59E-05	2.10E-04	4.59E-07	6.30E-06	2.87E-05	6.84E-08	3.86E-06	1.32E-05	1.59E-08
157	420678.4	3734135	4.61E-05	2.11E-04	4.61E-07	6.32E-06	2.88E-05	6.87E-08	3.88E-06	1.33E-05	1.59E-08
158	420687.7	3734134	4.63E-05	2.12E-04	4.63E-07	6.35E-06	2.90E-05	6.89E-08	3.90E-06	1.33E-05	1.60E-08
159	420697	3734132	4.65E-05	2.12E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
160	420706.3	3734130	4.66E-05	2.13E-04	4.66E-07	6.39E-06	2.91E-05	6.94E-08	3.92E-06	1.34E-05	1.61E-08
161	420715.7	3734129	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
162	420725	3734127	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
163	420734.3	3734125	4.67E-05	2.13E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
164	420762.2	3734120	4.62E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.88E-08	3.89E-06	1.33E-05	1.60E-08
165	420540.7	3734291	1.19E-04	5.43E-04	1.19E-06	1.63E-05	7.42E-05	1.77E-07	9.98E-06	3.41E-05	4.10E-08
166	420540.7	3734301	1.29E-04	5.88E-04	1.29E-06	1.76E-05	8.04E-05	1.91E-07	1.08E-05	3.70E-05	4.45E-08
167	420540.6	3734310	1.38E-04	6.33E-04	1.38E-06	1.90E-05	8.66E-05	2.06E-07	1.17E-05	3.98E-05	4.79E-08
168	420540.6	3734320	1.49E-04	6.80E-04	1.49E-06	2.04E-05	9.29E-05	2.21E-07	1.25E-05	4.27E-05	5.14E-08
169	420540.6	3734330	1.59E-04	7.27E-04	1.59E-06	2.18E-05	9.94E-05	2.37E-07	1.34E-05	4.57E-05	5.49E-08
170	420540.5	3734340	1.69E-04	7.74E-04	1.69E-06	2.32E-05	1.06E-04	2.52E-07	1.42E-05	4.87E-05	5.85E-08
171	420540.5	3734350	1.79E-04	8.21E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.16E-05	6.20E-08
172	420541.9	3734249	8.42E-05	3.85E-04	8.41E-07	1.15E-05	5.26E-05	1.25E-07	7.08E-06	2.42E-05	2.91E-08
173	420546.1	3734240	8.03E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.77E-08

174	420550.4	3734232	7.64E-05	3.49E-04	7.63E-07	1.05E-05	4.78E-05	1.14E-07	6.43E-06	2.19E-05	2.64E-08
175	420554.6	3734223	7.25E-05	3.31E-04	7.24E-07	9.93E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.50E-08
176	420558.9	3734215	6.85E-05	3.13E-04	6.85E-07	9.39E-06	4.28E-05	1.02E-07	5.76E-06	1.97E-05	2.37E-08
177	420563.1	3734207	6.46E-05	2.95E-04	6.46E-07	8.86E-06	4.04E-05	9.62E-08	5.44E-06	1.86E-05	2.23E-08
178	420567.3	3734198	6.10E-05	2.79E-04	6.10E-07	8.36E-06	3.81E-05	9.08E-08	5.13E-06	1.75E-05	2.11E-08
179	420571.6	3734190	5.76E-05	2.63E-04	5.76E-07	7.90E-06	3.60E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
180	420575.8	3734181	5.45E-05	2.49E-04	5.45E-07	7.47E-06	3.41E-05	8.11E-08	4.58E-06	1.57E-05	1.88E-08
181	420580	3734173	5.16E-05	2.36E-04	5.15E-07	7.07E-06	3.22E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
182	420592.8	3734148	4.40E-05	2.01E-04	4.40E-07	6.04E-06	2.75E-05	6.55E-08	3.70E-06	1.27E-05	1.52E-08
183	420597	3734139	4.19E-05	1.92E-04	4.19E-07	5.74E-06	2.62E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
184	420610.5	3734129	4.00E-05	1.83E-04	3.99E-07	5.48E-06	2.50E-05	5.95E-08	3.36E-06	1.15E-05	1.38E-08
185	420638.3	3734124	4.03E-05	1.84E-04	4.03E-07	5.52E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
186	420647.5	3734123	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
187	420656.8	3734121	4.06E-05	1.86E-04	4.06E-07	5.57E-06	2.54E-05	6.05E-08	3.42E-06	1.17E-05	1.40E-08
188	420666.1	3734119	4.08E-05	1.87E-04	4.08E-07	5.59E-06	2.55E-05	6.07E-08	3.43E-06	1.17E-05	1.41E-08
189	420675.3	3734118	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
190	420684.6	3734116	4.11E-05	1.88E-04	4.11E-07	5.64E-06	2.57E-05	6.12E-08	3.46E-06	1.18E-05	1.42E-08
191	420693.8	3734114	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
192	420703.1	3734113	4.14E-05	1.89E-04	4.14E-07	5.68E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
193	420712.4	3734111	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.59E-05	6.18E-08	3.49E-06	1.19E-05	1.43E-08
194	420721.6	3734109	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.60E-05	6.18E-08	3.49E-06	1.19E-05	1.44E-08
195	420730.9	3734108	4.15E-05	1.90E-04	4.15E-07	5.69E-06	2.60E-05	6.18E-08	3.50E-06	1.19E-05	1.44E-08
196	420758.7	3734103	4.13E-05	1.89E-04	4.12E-07	5.66E-06	2.58E-05	6.14E-08	3.47E-06	1.19E-05	1.43E-08
197	420767.9	3734101	4.11E-05	1.88E-04	4.10E-07	5.63E-06	2.57E-05	6.11E-08	3.46E-06	1.18E-05	1.42E-08
198	420520.7	3734291	1.08E-04	4.96E-04	1.08E-06	1.49E-05	6.78E-05	1.61E-07	9.12E-06	3.12E-05	3.75E-08
199	420520.7	3734300	1.16E-04	5.29E-04	1.16E-06	1.59E-05	7.23E-05	1.72E-07	9.73E-06	3.32E-05	4.00E-08
200	420520.6	3734310	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.04E-05	3.54E-05	4.25E-08
201	420520.6	3734320	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
202	420520.6	3734330	1.38E-04	6.29E-04	1.38E-06	1.89E-05	8.60E-05	2.05E-07	1.16E-05	3.95E-05	4.76E-08
203	420520.5	3734340	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
204	420520.5	3734350	1.51E-04	6.91E-04	1.51E-06	2.07E-05	9.46E-05	2.25E-07	1.27E-05	4.35E-05	5.23E-08
205	420522.9	3734247	7.97E-05	3.64E-04	7.96E-07	1.09E-05	4.98E-05	1.19E-07	6.70E-06	2.29E-05	2.75E-08
206	420527.3	3734238	7.60E-05	3.47E-04	7.59E-07	1.04E-05	4.75E-05	1.13E-07	6.39E-06	2.18E-05	2.63E-08
207	420531.7	3734229	7.24E-05	3.31E-04	7.24E-07	9.93E-06	4.53E-05	1.08E-07	6.09E-06	2.08E-05	2.50E-08
208	420536.1	3734220	6.85E-05	3.13E-04	6.85E-07	9.39E-06	4.28E-05	1.02E-07	5.77E-06	1.97E-05	2.37E-08
209	420540.6	3734211	6.48E-05	2.96E-04	6.47E-07	8.88E-06	4.05E-05	9.64E-08	5.45E-06	1.86E-05	2.24E-08
210	420545	3734203	6.12E-05	2.80E-04	6.11E-07	8.38E-06	3.82E-05	9.10E-08	5.14E-06	1.76E-05	2.11E-08
211	420549.4	3734194	5.77E-05	2.64E-04	5.77E-07	7.91E-06	3.61E-05	8.59E-08	4.86E-06	1.66E-05	1.99E-08
212	420553.9	3734185	5.45E-05	2.49E-04	5.45E-07	7.47E-06	3.41E-05	8.11E-08	4.59E-06	1.57E-05	1.88E-08
213	420558.3	3734176	5.15E-05	2.35E-04	5.15E-07	7.06E-06	3.22E-05	7.67E-08	4.33E-06	1.48E-05	1.78E-08
214	420576	3734141	4.14E-05	1.89E-04	4.14E-07	5.68E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
215	420580.4	3734132	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.85E-08	3.31E-06	1.13E-05	1.36E-08
216	420584.9	3734124	3.74E-05	1.71E-04	3.74E-07	5.13E-06	2.34E-05	5.57E-08	3.15E-06	1.08E-05	1.29E-08
217	420599	3734113	3.57E-05	1.63E-04	3.57E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.03E-05	1.23E-08
218	420608.6	3734111	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.01E-06	1.03E-05	1.23E-08
219	420637.7	3734106	3.60E-05	1.65E-04	3.60E-07	4.94E-06	2.25E-05	5.37E-08	3.03E-06	1.04E-05	1.25E-08
220	420647.4	3734105	3.62E-05	1.66E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.05E-06	1.04E-05	1.25E-08
221	420657	3734103	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.27E-05	5.41E-08	3.06E-06	1.05E-05	1.26E-08
222	420666.7	3734101	3.65E-05	1.67E-04	3.65E-07	5.01E-06	2.28E-05	5.44E-08	3.07E-06	1.05E-05	1.26E-08
223	420676.4	3734099	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
224	420686.1	3734098	3.68E-05	1.68E-04	3.68E-07	5.05E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
225	420695.7	3734096	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
226	420705.4	3734094	3.71E-05	1.70E-04	3.71E-07	5.08E-06	2.32E-05	5.52E-08	3.12E-06	1.07E-05	1.28E-08
227	420715.1	3734092	3.72E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.13E-06	1.07E-05	1.28E-08
228	420724.8	3734091	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
229	420734.4	3734089	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
230	420753.8	3734086	3.71E-05	1.69E-04	3.71E-07	5.08E-06	2.32E-05	5.52E-08	3.12E-06	1.07E-05	1.28E-08
231	420763.5	3734084	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
232	420773.2	3734082	3.68E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08

233	420500.7	3734290	9.77E-05	4.47E-04	9.77E-07	1.34E-05	6.11E-05	1.45E-07	8.22E-06	2.81E-05	3.38E-08
234	420500.7	3734300	1.03E-04	4.72E-04	1.03E-06	1.41E-05	6.45E-05	1.54E-07	8.68E-06	2.97E-05	3.57E-08
235	420500.6	3734310	1.09E-04	4.96E-04	1.09E-06	1.49E-05	6.79E-05	1.62E-07	9.13E-06	3.12E-05	3.75E-08
236	420500.6	3734320	1.14E-04	5.20E-04	1.14E-06	1.56E-05	7.11E-05	1.69E-07	9.57E-06	3.27E-05	3.93E-08
237	420500.6	3734330	1.19E-04	5.43E-04	1.19E-06	1.63E-05	7.42E-05	1.77E-07	9.99E-06	3.41E-05	4.10E-08
238	420500.5	3734340	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.54E-05	4.26E-08
239	420500.5	3734350	1.28E-04	5.83E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
240	420511.5	3734229	6.92E-05	3.16E-04	6.92E-07	9.48E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
241	420515.9	3734221	6.59E-05	3.01E-04	6.59E-07	9.04E-06	4.12E-05	9.81E-08	5.55E-06	1.89E-05	2.28E-08
242	420520.2	3734212	6.27E-05	2.86E-04	6.26E-07	8.59E-06	3.92E-05	9.33E-08	5.27E-06	1.80E-05	2.17E-08
243	420524.6	3734203	5.95E-05	2.72E-04	5.94E-07	8.15E-06	3.72E-05	8.85E-08	5.00E-06	1.71E-05	2.05E-08
244	420529	3734195	5.64E-05	2.58E-04	5.63E-07	7.73E-06	3.52E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
245	420533.4	3734186	5.34E-05	2.44E-04	5.34E-07	7.32E-06	3.34E-05	7.95E-08	4.49E-06	1.53E-05	1.84E-08
246	420537.8	3734177	5.06E-05	2.31E-04	5.05E-07	6.93E-06	3.16E-05	7.53E-08	4.25E-06	1.45E-05	1.75E-08
247	420555.4	3734142	4.08E-05	1.87E-04	4.08E-07	5.60E-06	2.55E-05	6.08E-08	3.44E-06	1.17E-05	1.41E-08
248	420559.8	3734134	3.88E-05	1.77E-04	3.88E-07	5.32E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
249	420564.2	3734125	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.50E-08	3.11E-06	1.06E-05	1.28E-08
250	420568.6	3734116	3.52E-05	1.61E-04	3.51E-07	4.82E-06	2.20E-05	5.23E-08	2.96E-06	1.01E-05	1.22E-08
251	420572.9	3734108	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
252	420586.9	3734097	3.20E-05	1.46E-04	3.20E-07	4.39E-06	2.00E-05	4.77E-08	2.69E-06	9.20E-06	1.11E-08
253	420596.5	3734095	3.21E-05	1.47E-04	3.20E-07	4.40E-06	2.00E-05	4.77E-08	2.70E-06	9.21E-06	1.11E-08
254	420606.1	3734094	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.23E-06	1.11E-08
255	420615.7	3734092	3.22E-05	1.47E-04	3.22E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.25E-06	1.11E-08
256	420634.9	3734089	3.24E-05	1.48E-04	3.24E-07	4.45E-06	2.03E-05	4.83E-08	2.73E-06	9.32E-06	1.12E-08
257	420644.5	3734087	3.26E-05	1.49E-04	3.26E-07	4.46E-06	2.04E-05	4.85E-08	2.74E-06	9.36E-06	1.13E-08
258	420654.1	3734085	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.40E-06	1.13E-08
259	420663.7	3734083	3.29E-05	1.50E-04	3.28E-07	4.51E-06	2.05E-05	4.89E-08	2.77E-06	9.44E-06	1.14E-08
260	420673.3	3734082	3.30E-05	1.51E-04	3.30E-07	4.53E-06	2.06E-05	4.91E-08	2.78E-06	9.49E-06	1.14E-08
261	420682.9	3734080	3.31E-05	1.52E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.79E-06	9.52E-06	1.15E-08
262	420692.5	3734078	3.33E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.56E-06	1.15E-08
263	420702.1	3734077	3.34E-05	1.53E-04	3.34E-07	4.57E-06	2.09E-05	4.97E-08	2.81E-06	9.59E-06	1.15E-08
264	420711.7	3734075	3.34E-05	1.53E-04	3.34E-07	4.59E-06	2.09E-05	4.98E-08	2.81E-06	9.61E-06	1.16E-08
265	420721.3	3734073	3.35E-05	1.53E-04	3.35E-07	4.59E-06	2.09E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
266	420730.9	3734071	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.63E-06	1.16E-08
267	420759.7	3734066	3.34E-05	1.52E-04	3.33E-07	4.57E-06	2.09E-05	4.96E-08	2.81E-06	9.58E-06	1.15E-08
268	420769.3	3734065	3.32E-05	1.52E-04	3.32E-07	4.55E-06	2.08E-05	4.95E-08	2.79E-06	9.55E-06	1.15E-08
269	420778.9	3734063	3.31E-05	1.51E-04	3.30E-07	4.53E-06	2.07E-05	4.92E-08	2.78E-06	9.50E-06	1.14E-08
270	420480.7	3734290	8.75E-05	4.00E-04	8.75E-07	1.20E-05	5.47E-05	1.30E-07	7.37E-06	2.52E-05	3.03E-08
271	420480.7	3734300	9.15E-05	4.19E-04	9.15E-07	1.25E-05	5.72E-05	1.36E-07	7.70E-06	2.63E-05	3.16E-08
272	420480.6	3734310	9.54E-05	4.36E-04	9.53E-07	1.31E-05	5.96E-05	1.42E-07	8.02E-06	2.74E-05	3.30E-08
273	420480.6	3734320	9.90E-05	4.53E-04	9.90E-07	1.36E-05	6.19E-05	1.47E-07	8.33E-06	2.84E-05	3.42E-08
274	420480.6	3734330	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.40E-05	1.52E-07	8.61E-06	2.94E-05	3.54E-08
275	420480.5	3734340	1.05E-04	4.82E-04	1.05E-06	1.44E-05	6.59E-05	1.57E-07	8.86E-06	3.03E-05	3.64E-08
276	420480.5	3734350	1.08E-04	4.94E-04	1.08E-06	1.48E-05	6.75E-05	1.61E-07	9.09E-06	3.10E-05	3.73E-08
277	420482.5	3734247	7.04E-05	3.22E-04	7.04E-07	9.65E-06	4.40E-05	1.05E-07	5.92E-06	2.02E-05	2.43E-08
278	420486.9	3734238	6.81E-05	3.11E-04	6.80E-07	9.33E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
279	420491.2	3734230	6.56E-05	3.00E-04	6.55E-07	8.99E-06	4.10E-05	9.76E-08	5.52E-06	1.88E-05	2.27E-08
280	420513.1	3734187	5.21E-05	2.38E-04	5.20E-07	7.14E-06	3.25E-05	7.75E-08	4.38E-06	1.50E-05	1.80E-08
281	420517.4	3734178	4.95E-05	2.26E-04	4.94E-07	6.78E-06	3.09E-05	7.36E-08	4.16E-06	1.42E-05	1.71E-08
282	420521.8	3734169	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
283	420534.9	3734143	4.03E-05	1.84E-04	4.03E-07	5.52E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
284	420539.2	3734135	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.40E-05	5.70E-08	3.22E-06	1.10E-05	1.32E-08
285	420543.6	3734126	3.65E-05	1.67E-04	3.64E-07	5.00E-06	2.28E-05	5.43E-08	3.07E-06	1.05E-05	1.26E-08
286	420547.9	3734117	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.98E-06	1.20E-08
287	420552.3	3734109	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.79E-06	9.52E-06	1.14E-08
288	420556.7	3734100	3.16E-05	1.45E-04	3.16E-07	4.33E-06	1.98E-05	4.71E-08	2.66E-06	9.08E-06	1.09E-08
289	420561	3734092	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
290	420574.9	3734081	2.89E-05	1.32E-04	2.89E-07	3.96E-06	1.81E-05	4.30E-08	2.43E-06	8.30E-06	9.99E-09
291	420584.5	3734079	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.43E-06	8.31E-06	1.00E-08

292	420594	3734078	2.90E-05	1.32E-04	2.90E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
293	420603.5	3734076	2.90E-05	1.33E-04	2.90E-07	3.98E-06	1.82E-05	4.32E-08	2.44E-06	8.34E-06	1.00E-08
294	420613	3734074	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.37E-06	1.01E-08
295	420632.1	3734071	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
296	420641.6	3734069	2.95E-05	1.35E-04	2.94E-07	4.04E-06	1.84E-05	4.38E-08	2.48E-06	8.46E-06	1.02E-08
297	420651.2	3734068	2.96E-05	1.35E-04	2.96E-07	4.06E-06	1.85E-05	4.40E-08	2.49E-06	8.50E-06	1.02E-08
298	420660.7	3734066	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.54E-06	1.03E-08
299	420670.2	3734064	2.98E-05	1.36E-04	2.98E-07	4.09E-06	1.87E-05	4.44E-08	2.51E-06	8.58E-06	1.03E-08
300	420679.8	3734062	3.00E-05	1.37E-04	2.99E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.61E-06	1.04E-08
301	420689.3	3734061	3.01E-05	1.37E-04	3.01E-07	4.12E-06	1.88E-05	4.48E-08	2.53E-06	8.64E-06	1.04E-08
302	420698.8	3734059	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.49E-08	2.54E-06	8.67E-06	1.04E-08
303	420708.4	3734057	3.02E-05	1.38E-04	3.02E-07	4.15E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
304	420717.9	3734056	3.03E-05	1.39E-04	3.03E-07	4.15E-06	1.89E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
305	420727.4	3734054	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
306	420736.9	3734052	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
307	420756	3734049	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
308	420765.5	3734047	3.01E-05	1.38E-04	3.01E-07	4.13E-06	1.88E-05	4.49E-08	2.53E-06	8.66E-06	1.04E-08
309	420775.1	3734045	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.88E-05	4.47E-08	2.53E-06	8.63E-06	1.04E-08
310	420784.6	3734044	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
311	420460.7	3734290	7.81E-05	3.57E-04	7.81E-07	1.07E-05	4.88E-05	1.16E-07	6.57E-06	2.24E-05	2.70E-08
312	420460.7	3734300	8.10E-05	3.70E-04	8.10E-07	1.11E-05	5.06E-05	1.21E-07	6.81E-06	2.33E-05	2.80E-08
313	420460.6	3734310	8.37E-05	3.83E-04	8.36E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.40E-05	2.89E-08
314	420460.6	3734320	8.61E-05	3.94E-04	8.61E-07	1.18E-05	5.39E-05	1.28E-07	7.25E-06	2.48E-05	2.98E-08
315	420460.6	3734330	8.83E-05	4.04E-04	8.83E-07	1.21E-05	5.52E-05	1.32E-07	7.43E-06	2.54E-05	3.05E-08
316	420460.5	3734340	9.03E-05	4.13E-04	9.02E-07	1.24E-05	5.64E-05	1.34E-07	7.59E-06	2.59E-05	3.12E-08
317	420460.5	3734349	9.19E-05	4.20E-04	9.18E-07	1.26E-05	5.74E-05	1.37E-07	7.73E-06	2.64E-05	3.17E-08
318	420462.4	3734247	6.51E-05	2.98E-04	6.51E-07	8.93E-06	4.07E-05	9.69E-08	5.48E-06	1.87E-05	2.25E-08
319	420466.7	3734239	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
320	420471.1	3734230	6.16E-05	2.82E-04	6.15E-07	8.44E-06	3.85E-05	9.17E-08	5.18E-06	1.77E-05	2.13E-08
321	420475.4	3734221	5.95E-05	2.72E-04	5.95E-07	8.16E-06	3.72E-05	8.86E-08	5.01E-06	1.71E-05	2.06E-08
322	420479.7	3734213	5.73E-05	2.62E-04	5.73E-07	7.86E-06	3.58E-05	8.53E-08	4.82E-06	1.65E-05	1.98E-08
323	420484.1	3734204	5.50E-05	2.52E-04	5.50E-07	7.55E-06	3.44E-05	8.19E-08	4.63E-06	1.58E-05	1.90E-08
324	420488.4	3734196	5.27E-05	2.41E-04	5.27E-07	7.23E-06	3.30E-05	7.85E-08	4.44E-06	1.52E-05	1.82E-08
325	420492.7	3734187	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.51E-08	4.24E-06	1.45E-05	1.74E-08
326	420514.4	3734144	3.97E-05	1.81E-04	3.97E-07	5.44E-06	2.48E-05	5.91E-08	3.34E-06	1.14E-05	1.37E-08
327	420518.8	3734136	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
328	420523.1	3734127	3.60E-05	1.65E-04	3.60E-07	4.94E-06	2.25E-05	5.36E-08	3.03E-06	1.03E-05	1.24E-08
329	420527.4	3734118	3.43E-05	1.57E-04	3.43E-07	4.70E-06	2.15E-05	5.11E-08	2.89E-06	9.86E-06	1.19E-08
330	420531.8	3734110	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.41E-06	1.13E-08
331	420536.1	3734101	3.13E-05	1.43E-04	3.12E-07	4.28E-06	1.95E-05	4.65E-08	2.63E-06	8.98E-06	1.08E-08
332	420540.4	3734093	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
333	420544.8	3734084	2.86E-05	1.31E-04	2.85E-07	3.92E-06	1.79E-05	4.25E-08	2.40E-06	8.21E-06	9.87E-09
334	420549.1	3734075	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
335	420562.9	3734065	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.20E-06	7.53E-06	9.05E-09
336	420572.4	3734063	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.21E-06	7.53E-06	9.06E-09
337	420581.9	3734062	2.63E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.54E-06	9.07E-09
338	420591.3	3734060	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.64E-05	3.92E-08	2.21E-06	7.56E-06	9.09E-09
339	420600.8	3734058	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.58E-06	9.11E-09
340	420638.7	3734052	2.68E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.25E-09
341	420648.2	3734050	2.69E-05	1.23E-04	2.69E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.72E-06	9.29E-09
342	420657.7	3734048	2.70E-05	1.23E-04	2.70E-07	3.70E-06	1.69E-05	4.02E-08	2.27E-06	7.76E-06	9.33E-09
343	420667.1	3734046	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.69E-05	4.03E-08	2.28E-06	7.79E-06	9.37E-09
344	420676.6	3734045	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
345	420686.1	3734043	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.85E-06	9.44E-09
346	420695.6	3734041	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.71E-05	4.08E-08	2.30E-06	7.87E-06	9.47E-09
347	420705	3734040	2.75E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
348	420714.5	3734038	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.10E-08	2.32E-06	7.91E-06	9.51E-09
349	420724	3734036	2.75E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.91E-06	9.52E-09
350	420733.5	3734035	2.76E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.92E-06	9.52E-09

351	420752.4	3734031	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.09E-08	2.31E-06	7.90E-06	9.50E-09
352	420761.9	3734030	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.72E-05	4.08E-08	2.31E-06	7.88E-06	9.48E-09
353	420771.4	3734028	2.74E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
354	420780.8	3734026	2.72E-05	1.25E-04	2.72E-07	3.73E-06	1.70E-05	4.06E-08	2.29E-06	7.83E-06	9.41E-09
355	420790.3	3734024	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.79E-06	9.37E-09
356	420442.3	3734247	5.99E-05	2.74E-04	5.98E-07	8.21E-06	3.74E-05	8.91E-08	5.04E-06	1.72E-05	2.07E-08
357	420446.6	3734239	5.87E-05	2.69E-04	5.87E-07	8.05E-06	3.67E-05	8.74E-08	4.94E-06	1.69E-05	2.03E-08
358	420450.9	3734230	5.74E-05	2.62E-04	5.74E-07	7.87E-06	3.59E-05	8.54E-08	4.83E-06	1.65E-05	1.98E-08
359	420455.2	3734222	5.59E-05	2.55E-04	5.58E-07	7.66E-06	3.49E-05	8.32E-08	4.70E-06	1.61E-05	1.93E-08
360	420459.5	3734213	5.42E-05	2.48E-04	5.41E-07	7.43E-06	3.39E-05	8.06E-08	4.56E-06	1.56E-05	1.87E-08
361	420463.9	3734205	5.24E-05	2.39E-04	5.23E-07	7.18E-06	3.27E-05	7.80E-08	4.41E-06	1.50E-05	1.81E-08
362	420468.2	3734196	5.05E-05	2.31E-04	5.05E-07	6.92E-06	3.16E-05	7.51E-08	4.25E-06	1.45E-05	1.74E-08
363	420472.5	3734188	4.85E-05	2.22E-04	4.85E-07	6.65E-06	3.03E-05	7.22E-08	4.08E-06	1.39E-05	1.68E-08
364	420476.8	3734179	4.66E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
365	420481.1	3734170	4.46E-05	2.04E-04	4.46E-07	6.11E-06	2.79E-05	6.64E-08	3.75E-06	1.28E-05	1.54E-08
366	420511.3	3734111	3.24E-05	1.48E-04	3.23E-07	4.44E-06	2.02E-05	4.82E-08	2.72E-06	9.30E-06	1.12E-08
367	420515.6	3734102	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
368	420519.9	3734094	2.96E-05	1.35E-04	2.95E-07	4.05E-06	1.85E-05	4.40E-08	2.49E-06	8.49E-06	1.02E-08
369	420524.2	3734085	2.83E-05	1.29E-04	2.83E-07	3.88E-06	1.77E-05	4.21E-08	2.38E-06	8.13E-06	9.77E-09
370	420528.6	3734076	2.71E-05	1.24E-04	2.71E-07	3.71E-06	1.69E-05	4.03E-08	2.28E-06	7.78E-06	9.36E-09
371	420532.9	3734068	2.59E-05	1.19E-04	2.59E-07	3.56E-06	1.62E-05	3.86E-08	2.18E-06	7.46E-06	8.97E-09
372	420537.2	3734059	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
373	420579.2	3734044	2.39E-05	1.09E-04	2.39E-07	3.28E-06	1.50E-05	3.56E-08	2.01E-06	6.88E-06	8.27E-09
374	420588.6	3734042	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.57E-08	2.02E-06	6.89E-06	8.29E-09
375	420598.1	3734041	2.41E-05	1.10E-04	2.40E-07	3.30E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.31E-09
376	420607.5	3734039	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
377	420635.8	3734034	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.63E-08	2.05E-06	7.01E-06	8.43E-09
378	420645.2	3734032	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.04E-06	8.47E-09
379	420654.6	3734031	2.46E-05	1.13E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.51E-09
380	420664	3734029	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
381	420673.5	3734027	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.57E-09
382	420682.9	3734026	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09
383	420692.3	3734024	2.50E-05	1.14E-04	2.50E-07	3.42E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.63E-09
384	420701.7	3734022	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.57E-05	3.73E-08	2.11E-06	7.19E-06	8.65E-09
385	420711.2	3734020	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
386	420720.6	3734019	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.68E-09
387	420730	3734017	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.12E-06	7.23E-06	8.69E-09
388	420758.3	3734012	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
389	420767.7	3734010	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.19E-06	8.65E-09
390	420777.1	3734009	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
391	420786.6	3734007	2.48E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.58E-09
392	420796	3734005	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.11E-06	8.54E-09
393	420420.7	3734290	6.18E-05	2.83E-04	6.18E-07	8.48E-06	3.87E-05	9.21E-08	5.20E-06	1.78E-05	2.14E-08
394	420420.7	3734300	6.32E-05	2.89E-04	6.32E-07	8.67E-06	3.95E-05	9.41E-08	5.32E-06	1.82E-05	2.19E-08
395	420420.6	3734310	6.45E-05	2.95E-04	6.44E-07	8.84E-06	4.03E-05	9.60E-08	5.42E-06	1.85E-05	2.23E-08
396	420420.6	3734320	6.55E-05	3.00E-04	6.55E-07	8.98E-06	4.10E-05	9.75E-08	5.51E-06	1.88E-05	2.26E-08
397	420420.6	3734330	6.64E-05	3.03E-04	6.63E-07	9.10E-06	4.15E-05	9.88E-08	5.58E-06	1.91E-05	2.29E-08
398	420420.5	3734339	6.71E-05	3.07E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
399	420420.5	3734349	6.76E-05	3.09E-04	6.75E-07	9.26E-06	4.22E-05	1.01E-07	5.68E-06	1.94E-05	2.33E-08
400	420398.4	3734255	5.01E-05	2.29E-04	5.00E-07	6.86E-06	3.13E-05	7.45E-08	4.21E-06	1.44E-05	1.73E-08
401	420402.8	3734246	4.99E-05	2.28E-04	4.98E-07	6.84E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
402	420407.2	3734237	4.95E-05	2.26E-04	4.94E-07	6.78E-06	3.09E-05	7.36E-08	4.16E-06	1.42E-05	1.71E-08
403	420411.6	3734229	4.89E-05	2.23E-04	4.88E-07	6.70E-06	3.06E-05	7.28E-08	4.11E-06	1.40E-05	1.69E-08
404	420416	3734220	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.16E-08	4.05E-06	1.38E-05	1.66E-08
405	420420.5	3734211	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.02E-08	3.97E-06	1.36E-05	1.63E-08
406	420424.9	3734202	4.61E-05	2.11E-04	4.61E-07	6.32E-06	2.88E-05	6.86E-08	3.88E-06	1.32E-05	1.59E-08
407	420429.3	3734194	4.49E-05	2.05E-04	4.49E-07	6.16E-06	2.81E-05	6.68E-08	3.78E-06	1.29E-05	1.55E-08
408	420433.7	3734185	4.36E-05	1.99E-04	4.36E-07	5.98E-06	2.73E-05	6.49E-08	3.67E-06	1.25E-05	1.51E-08
409	420438.1	3734176	4.22E-05	1.93E-04	4.22E-07	5.79E-06	2.64E-05	6.28E-08	3.55E-06	1.21E-05	1.46E-08

410	420442.5	3734167	4.07E-05	1.86E-04	4.07E-07	5.58E-06	2.55E-05	6.06E-08	3.43E-06	1.17E-05	1.41E-08
411	420455.8	3734141	3.62E-05	1.66E-04	3.62E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
412	420460.2	3734132	3.48E-05	1.59E-04	3.48E-07	4.77E-06	2.17E-05	5.18E-08	2.93E-06	9.99E-06	1.20E-08
413	420464.6	3734124	3.33E-05	1.52E-04	3.33E-07	4.57E-06	2.08E-05	4.96E-08	2.80E-06	9.58E-06	1.15E-08
414	420469	3734115	3.19E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.75E-08	2.69E-06	9.17E-06	1.10E-08
415	420473.4	3734106	3.06E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
416	420477.9	3734097	2.93E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
417	420482.3	3734089	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.05E-06	9.68E-09
418	420486.7	3734080	2.68E-05	1.23E-04	2.68E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.71E-06	9.27E-09
419	420491.1	3734071	2.57E-05	1.18E-04	2.57E-07	3.52E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
420	420508.8	3734036	2.18E-05	9.96E-05	2.18E-07	2.99E-06	1.36E-05	3.24E-08	1.83E-06	6.26E-06	7.53E-09
421	420513.2	3734027	2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
422	420527.3	3734017	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
423	420536.9	3734015	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
424	420546.5	3734014	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
425	420556.2	3734012	2.01E-05	9.19E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
426	420565.8	3734010	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.95E-09
427	420575.5	3734008	2.02E-05	9.22E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.70E-06	5.79E-06	6.97E-09
428	420585.1	3734007	2.02E-05	9.24E-05	2.02E-07	2.77E-06	1.26E-05	3.01E-08	1.70E-06	5.81E-06	6.98E-09
429	420594.8	3734005	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
430	420604.4	3734003	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.03E-09
431	420614.1	3734001	2.04E-05	9.33E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.05E-09
432	420633.4	3733998	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
433	420643	3733996	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.14E-09
434	420652.7	3733995	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
435	420662.3	3733993	2.08E-05	9.52E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.20E-09
436	420672	3733991	2.09E-05	9.56E-05	2.09E-07	2.87E-06	1.31E-05	3.11E-08	1.76E-06	6.01E-06	7.22E-09
437	420681.6	3733989	2.10E-05	9.59E-05	2.10E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.03E-06	7.25E-09
438	420691.3	3733988	2.10E-05	9.62E-05	2.10E-07	2.88E-06	1.32E-05	3.13E-08	1.77E-06	6.04E-06	7.27E-09
439	420700.9	3733986	2.11E-05	9.64E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.77E-06	6.06E-06	7.29E-09
440	420710.6	3733984	2.11E-05	9.66E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.07E-06	7.30E-09
441	420720.2	3733982	2.12E-05	9.68E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
442	420729.9	3733981	2.12E-05	9.69E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.09E-06	7.32E-09
443	420758.8	3733976	2.12E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
444	420768.5	3733974	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.07E-06	7.30E-09
445	420778.1	3733972	2.11E-05	9.63E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.28E-09
446	420787.8	3733970	2.10E-05	9.60E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
447	420797.4	3733969	2.09E-05	9.56E-05	2.09E-07	2.87E-06	1.31E-05	3.11E-08	1.76E-06	6.01E-06	7.23E-09
448	420807.1	3733967	2.08E-05	9.52E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
449	420380.7	3734290	4.89E-05	2.24E-04	4.89E-07	6.71E-06	3.06E-05	7.28E-08	4.12E-06	1.41E-05	1.69E-08
450	420380.7	3734300	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.10E-05	7.37E-08	4.17E-06	1.42E-05	1.71E-08
451	420380.6	3734310	5.00E-05	2.29E-04	5.00E-07	6.86E-06	3.13E-05	7.45E-08	4.21E-06	1.44E-05	1.73E-08
452	420380.6	3734320	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.50E-08	4.24E-06	1.45E-05	1.74E-08
453	420380.6	3734329	5.07E-05	2.32E-04	5.07E-07	6.95E-06	3.17E-05	7.55E-08	4.26E-06	1.46E-05	1.75E-08
454	420380.5	3734339	5.08E-05	2.32E-04	5.08E-07	6.97E-06	3.18E-05	7.57E-08	4.28E-06	1.46E-05	1.76E-08
455	420380.5	3734349	5.09E-05	2.33E-04	5.09E-07	6.98E-06	3.18E-05	7.58E-08	4.28E-06	1.46E-05	1.76E-08
456	420358.2	3734255	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
457	420362.6	3734247	4.12E-05	1.88E-04	4.12E-07	5.65E-06	2.58E-05	6.13E-08	3.47E-06	1.18E-05	1.42E-08
458	420366.9	3734238	4.13E-05	1.89E-04	4.12E-07	5.66E-06	2.58E-05	6.14E-08	3.47E-06	1.19E-05	1.43E-08
459	420388.8	3734195	3.95E-05	1.81E-04	3.95E-07	5.42E-06	2.47E-05	5.89E-08	3.33E-06	1.14E-05	1.37E-08
460	420393.2	3734186	3.88E-05	1.78E-04	3.88E-07	5.32E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
461	420397.5	3734177	3.80E-05	1.74E-04	3.80E-07	5.21E-06	2.38E-05	5.66E-08	3.20E-06	1.09E-05	1.31E-08
462	420401.9	3734169	3.71E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.12E-06	1.07E-05	1.28E-08
463	420415	3734143	3.40E-05	1.56E-04	3.40E-07	4.66E-06	2.13E-05	5.06E-08	2.86E-06	9.78E-06	1.18E-08
464	420419.4	3734134	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.45E-06	1.14E-08
465	420423.8	3734125	3.18E-05	1.45E-04	3.18E-07	4.36E-06	1.99E-05	4.73E-08	2.67E-06	9.13E-06	1.10E-08
466	420428.1	3734117	3.06E-05	1.40E-04	3.06E-07	4.20E-06	1.92E-05	4.56E-08	2.58E-06	8.81E-06	1.06E-08
467	420432.5	3734108	2.95E-05	1.35E-04	2.95E-07	4.05E-06	1.85E-05	4.40E-08	2.48E-06	8.48E-06	1.02E-08
468	420436.9	3734099	2.84E-05	1.30E-04	2.84E-07	3.89E-06	1.78E-05	4.23E-08	2.39E-06	8.16E-06	9.82E-09

469	420441.3	3734091	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.44E-09
470	420445.6	3734082	2.63E-05	1.20E-04	2.63E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
471	420450	3734073	2.53E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.76E-08	2.12E-06	7.26E-06	8.73E-09
472	420454.4	3734065	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.61E-08	2.04E-06	6.97E-06	8.39E-09
473	420467.5	3734039	2.16E-05	9.85E-05	2.15E-07	2.95E-06	1.35E-05	3.21E-08	1.81E-06	6.19E-06	7.45E-09
474	420471.9	3734030	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
475	420476.2	3734021	2.00E-05	9.12E-05	1.99E-07	2.74E-06	1.25E-05	2.97E-08	1.68E-06	5.73E-06	6.90E-09
476	420480.6	3734013	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
477	420485	3734004	1.85E-05	8.47E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.32E-06	6.40E-09
478	420489.3	3733995	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
479	420512.8	3733983	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
480	420522.4	3733982	1.72E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.93E-09
481	420531.9	3733980	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
482	420541.5	3733978	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
483	420551	3733976	1.72E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.93E-09
484	420560.6	3733975	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
485	420570.1	3733973	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.94E-06	5.95E-09
486	420579.7	3733971	1.72E-05	7.89E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.96E-09
487	420589.2	3733970	1.73E-05	7.91E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.46E-06	4.97E-06	5.98E-09
488	420598.8	3733968	1.74E-05	7.93E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.99E-06	6.00E-09
489	420608.3	3733966	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.02E-09
490	420637	3733961	1.76E-05	8.05E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
491	420646.5	3733959	1.77E-05	8.09E-05	1.77E-07	2.42E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
492	420656.1	3733958	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.13E-09
493	420665.6	3733956	1.78E-05	8.14E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
494	420675.2	3733954	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.14E-06	6.18E-09
495	420684.7	3733952	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.20E-09
496	420694.3	3733951	1.80E-05	8.22E-05	1.80E-07	2.47E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
497	420703.8	3733949	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.23E-09
498	420340.7	3734290	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
499	420340.7	3734300	3.91E-05	1.79E-04	3.91E-07	5.36E-06	2.45E-05	5.83E-08	3.29E-06	1.12E-05	1.35E-08
500	420340.6	3734310	3.93E-05	1.80E-04	3.93E-07	5.38E-06	2.46E-05	5.85E-08	3.30E-06	1.13E-05	1.36E-08
501	420340.6	3734319	3.94E-05	1.80E-04	3.93E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
502	420340.6	3734329	3.94E-05	1.80E-04	3.94E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
503	420340.5	3734339	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
504	420340.5	3734349	3.92E-05	1.79E-04	3.92E-07	5.38E-06	2.45E-05	5.84E-08	3.30E-06	1.13E-05	1.36E-08
505	420340.4	3734369	3.89E-05	1.78E-04	3.89E-07	5.34E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
506	420318.1	3734255	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.64E-06	1.16E-08
507	420322.4	3734247	3.39E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.85E-06	9.75E-06	1.17E-08
508	420326.7	3734238	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
509	420331.1	3734230	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.90E-06	9.89E-06	1.19E-08
510	420335.4	3734221	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.14E-08	2.91E-06	9.92E-06	1.19E-08
511	420339.7	3734212	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.14E-08	2.91E-06	9.92E-06	1.19E-08
512	420344.1	3734204	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.13E-08	2.90E-06	9.90E-06	1.19E-08
513	420348.4	3734195	3.42E-05	1.57E-04	3.42E-07	4.69E-06	2.14E-05	5.10E-08	2.88E-06	9.84E-06	1.18E-08
514	420352.7	3734187	3.40E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.76E-06	1.17E-08
515	420357.1	3734178	3.36E-05	1.53E-04	3.36E-07	4.60E-06	2.10E-05	5.00E-08	2.82E-06	9.65E-06	1.16E-08
516	420361.4	3734169	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.78E-06	9.51E-06	1.14E-08
517	420387.4	3734118	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.43E-06	8.28E-06	9.96E-09
518	420391.8	3734109	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.35E-06	8.04E-06	9.67E-09
519	420396.1	3734101	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.80E-06	9.38E-09
520	420400.4	3734092	2.63E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
521	420404.8	3734083	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.78E-09
522	420409.1	3734075	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
523	420413.4	3734066	2.37E-05	1.08E-04	2.37E-07	3.25E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.18E-09
524	420426.5	3734040	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.79E-06	6.10E-06	7.33E-09
525	420430.8	3734032	2.05E-05	9.36E-05	2.05E-07	2.81E-06	1.28E-05	3.05E-08	1.72E-06	5.88E-06	7.07E-09
526	420435.1	3734023	1.97E-05	9.02E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.82E-09
527	420439.5	3734015	1.90E-05	8.70E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.57E-09

528	420443.8	3734006	1.83E-05	8.39E-05	1.83E-07	2.52E-06	1.15E-05	2.73E-08	1.54E-06	5.27E-06	6.34E-09
529	420448.1	3733998	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
530	420452.5	3733989	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
531	420456.8	3733980	1.65E-05	7.55E-05	1.65E-07	2.26E-06	1.03E-05	2.46E-08	1.39E-06	4.74E-06	5.70E-09
532	420461.1	3733972	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
533	420465.5	3733963	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.29E-08	1.30E-06	4.43E-06	5.33E-09
534	420479.3	3733953	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
535	420488.8	3733951	1.49E-05	6.79E-05	1.48E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
536	420630.9	3733926	1.52E-05	6.96E-05	1.52E-07	2.09E-06	9.51E-06	2.27E-08	1.28E-06	4.37E-06	5.26E-09
537	420640.3	3733924	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.29E-06	4.39E-06	5.28E-09
538	420649.8	3733922	1.53E-05	7.01E-05	1.53E-07	2.10E-06	9.59E-06	2.28E-08	1.29E-06	4.41E-06	5.30E-09
539	420659.3	3733921	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.42E-06	5.32E-09
540	420668.8	3733919	1.55E-05	7.07E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
541	420678.2	3733917	1.55E-05	7.09E-05	1.55E-07	2.13E-06	9.70E-06	2.31E-08	1.30E-06	4.46E-06	5.36E-09
542	420687.7	3733916	1.55E-05	7.11E-05	1.55E-07	2.13E-06	9.72E-06	2.31E-08	1.31E-06	4.47E-06	5.37E-09
543	420697.2	3733914	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
544	420706.7	3733912	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.77E-06	2.33E-08	1.31E-06	4.49E-06	5.40E-09
545	420716.1	3733910	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
546	420725.6	3733909	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
547	420735.1	3733907	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
548	420744.6	3733905	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
549	420754	3733904	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
550	420763.5	3733902	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
551	420773	3733900	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
552	420782.5	3733899	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.77E-06	2.33E-08	1.31E-06	4.49E-06	5.40E-09
553	420791.9	3733897	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
554	420801.4	3733895	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.73E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
555	420810.9	3733894	1.55E-05	7.10E-05	1.55E-07	2.13E-06	9.70E-06	2.31E-08	1.31E-06	4.46E-06	5.36E-09
556	420820.4	3733892	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.67E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
557	420829.8	3733890	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.43E-06	5.32E-09
558	420300.5	3734339	3.11E-05	1.42E-04	3.10E-07	4.26E-06	1.94E-05	4.62E-08	2.61E-06	8.92E-06	1.07E-08
559	420300.5	3734349	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
560	420300.4	3734369	3.06E-05	1.40E-04	3.06E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.79E-06	1.06E-08
561	420278.4	3734255	2.76E-05	1.26E-04	2.76E-07	3.78E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
562	420282.8	3734246	2.80E-05	1.28E-04	2.80E-07	3.85E-06	1.75E-05	4.18E-08	2.36E-06	8.06E-06	9.69E-09
563	420287.2	3734237	2.84E-05	1.30E-04	2.84E-07	3.90E-06	1.78E-05	4.23E-08	2.39E-06	8.17E-06	9.83E-09
564	420291.6	3734228	2.88E-05	1.31E-04	2.87E-07	3.94E-06	1.80E-05	4.28E-08	2.42E-06	8.26E-06	9.94E-09
565	420296	3734220	2.90E-05	1.33E-04	2.90E-07	3.98E-06	1.81E-05	4.32E-08	2.44E-06	8.34E-06	1.00E-08
566	420300.4	3734211	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.83E-05	4.35E-08	2.46E-06	8.39E-06	1.01E-08
567	420304.8	3734202	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.36E-08	2.46E-06	8.42E-06	1.01E-08
568	420309.2	3734193	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.36E-08	2.47E-06	8.43E-06	1.01E-08
569	420313.6	3734185	2.93E-05	1.34E-04	2.93E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
570	420318	3734176	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.34E-08	2.45E-06	8.37E-06	1.01E-08
571	420335.7	3734141	2.79E-05	1.27E-04	2.79E-07	3.82E-06	1.74E-05	4.15E-08	2.35E-06	8.01E-06	9.64E-09
572	420340.1	3734132	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.71E-05	4.08E-08	2.31E-06	7.88E-06	9.47E-09
573	420344.5	3734123	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.29E-09
574	420348.9	3734115	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.21E-06	7.56E-06	9.10E-09
575	420353.3	3734106	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
576	420357.7	3734097	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
577	420362.1	3734089	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.64E-08	2.06E-06	7.02E-06	8.44E-09
578	420366.5	3734080	2.38E-05	1.09E-04	2.37E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
579	420388.6	3734036	2.03E-05	9.26E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.70E-06	5.82E-06	7.00E-09
580	420393	3734027	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.77E-09
581	420397.4	3734019	1.89E-05	8.65E-05	1.89E-07	2.59E-06	1.18E-05	2.82E-08	1.59E-06	5.44E-06	6.54E-09
582	420401.8	3734010	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
583	420406.2	3734001	1.76E-05	8.07E-05	1.76E-07	2.42E-06	1.10E-05	2.63E-08	1.48E-06	5.07E-06	6.10E-09
584	420410.6	3733992	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
585	420415	3733984	1.65E-05	7.52E-05	1.64E-07	2.26E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.69E-09
586	420419.5	3733975	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.49E-09

587	420423.9	3733966	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
588	420428.3	3733957	1.49E-05	6.79E-05	1.49E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
589	420455.6	3733921	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.13E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
590	420465.2	3733919	1.30E-05	5.93E-05	1.30E-07	1.78E-06	8.11E-06	1.93E-08	1.09E-06	3.73E-06	4.48E-09
591	420474.8	3733917	1.29E-05	5.92E-05	1.29E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
592	420484.5	3733916	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.47E-09
593	420494.1	3733914	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
594	420503.7	3733912	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
595	420513.4	3733910	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
596	420523	3733909	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
597	420532.6	3733907	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
598	420542.3	3733905	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.09E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
599	420551.9	3733904	1.30E-05	5.92E-05	1.30E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.48E-09
600	420561.5	3733902	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
601	420571.2	3733900	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
602	420580.8	3733898	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.75E-06	4.52E-09
603	420590.4	3733897	1.31E-05	6.00E-05	1.31E-07	1.80E-06	8.20E-06	1.95E-08	1.10E-06	3.77E-06	4.53E-09
604	420600.1	3733895	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
605	420638.6	3733888	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
606	420648.3	3733886	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.39E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
607	420657.9	3733885	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
608	420667.5	3733883	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
609	420677.2	3733881	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
610	420686.8	3733879	1.36E-05	6.22E-05	1.36E-07	1.86E-06	8.51E-06	2.03E-08	1.14E-06	3.91E-06	4.70E-09
611	420696.4	3733878	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
612	420706.1	3733876	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.72E-09
613	420715.7	3733874	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.94E-06	4.73E-09
614	420725.3	3733872	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.57E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
615	420735	3733871	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
616	420744.6	3733869	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
617	420754.2	3733867	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
618	420763.9	3733866	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
619	420773.5	3733864	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.16E-06	3.95E-06	4.75E-09
620	420783.2	3733862	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.58E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
621	420792.8	3733860	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.94E-06	4.73E-09
622	420802.4	3733859	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
623	420812.1	3733857	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
624	420821.7	3733855	1.36E-05	6.22E-05	1.36E-07	1.86E-06	8.51E-06	2.03E-08	1.14E-06	3.91E-06	4.70E-09
625	420831.3	3733854	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
626	420841	3733852	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.44E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
627	420260.7	3734290	2.54E-05	1.16E-04	2.54E-07	3.49E-06	1.59E-05	3.79E-08	2.14E-06	7.31E-06	8.79E-09
628	420260.7	3734299	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.78E-09
629	420260.6	3734309	2.53E-05	1.16E-04	2.53E-07	3.47E-06	1.58E-05	3.77E-08	2.13E-06	7.28E-06	8.75E-09
630	420260.6	3734319	2.52E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.75E-08	2.12E-06	7.25E-06	8.72E-09
631	420260.6	3734329	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.74E-08	2.11E-06	7.21E-06	8.68E-09
632	420260.5	3734339	2.50E-05	1.14E-04	2.50E-07	3.42E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.63E-09
633	420260.5	3734349	2.48E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.59E-09
634	420260.4	3734368	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
635	420238.2	3734255	2.29E-05	1.05E-04	2.29E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
636	420242.6	3734246	2.33E-05	1.06E-04	2.33E-07	3.19E-06	1.46E-05	3.47E-08	1.96E-06	6.69E-06	8.05E-09
637	420247	3734237	2.37E-05	1.08E-04	2.37E-07	3.25E-06	1.48E-05	3.53E-08	1.99E-06	6.81E-06	8.18E-09
638	420264.5	3734203	2.49E-05	1.14E-04	2.48E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.59E-09
639	420268.9	3734194	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.73E-08	2.11E-06	7.19E-06	8.65E-09
640	420273.2	3734185	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.12E-06	7.23E-06	8.69E-09
641	420277.6	3734177	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.58E-05	3.75E-08	2.12E-06	7.24E-06	8.71E-09
642	420295.1	3734142	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
643	420299.5	3734133	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.06E-06	8.49E-09
644	420303.9	3734125	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.62E-08	2.04E-06	6.98E-06	8.40E-09
645	420308.2	3734116	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.57E-08	2.02E-06	6.89E-06	8.28E-09

646	420312.6	3734107	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
647	420317	3734099	2.32E-05	1.06E-04	2.32E-07	3.18E-06	1.45E-05	3.45E-08	1.95E-06	6.66E-06	8.02E-09
648	420321.4	3734090	2.28E-05	1.04E-04	2.28E-07	3.12E-06	1.42E-05	3.39E-08	1.91E-06	6.54E-06	7.87E-09
649	420325.7	3734081	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.71E-09
650	420330.1	3734073	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.83E-06	6.27E-06	7.53E-09
651	420334.5	3734064	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.11E-06	7.35E-09
652	420338.9	3734055	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
653	420347.6	3734038	1.96E-05	8.97E-05	1.96E-07	2.69E-06	1.23E-05	2.92E-08	1.65E-06	5.64E-06	6.78E-09
654	420352	3734029	1.91E-05	8.71E-05	1.90E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
655	420356.4	3734020	1.85E-05	8.45E-05	1.85E-07	2.53E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
656	420360.8	3734012	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.19E-09
657	420365.1	3734003	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
658	420387	3733960	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
659	420391.4	3733951	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
660	420404.5	3733925	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
661	420408.9	3733916	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
662	420413.3	3733908	1.22E-05	5.60E-05	1.22E-07	1.68E-06	7.65E-06	1.82E-08	1.03E-06	3.52E-06	4.23E-09
663	420417.6	3733899	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.41E-06	4.11E-09
664	420431.6	3733889	1.15E-05	5.26E-05	1.15E-07	1.58E-06	7.19E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
665	420441.1	3733887	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
666	420450.7	3733885	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.15E-06	1.70E-08	9.62E-07	3.29E-06	3.95E-09
667	420460.3	3733884	1.14E-05	5.22E-05	1.14E-07	1.56E-06	7.14E-06	1.70E-08	9.60E-07	3.28E-06	3.94E-09
668	420469.8	3733882	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.70E-08	9.59E-07	3.27E-06	3.94E-09
669	420479.4	3733880	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
670	420489	3733878	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
671	420498.5	3733877	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
672	420508.1	3733875	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
673	420517.6	3733873	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.69E-08	9.58E-07	3.27E-06	3.93E-09
674	420527.2	3733872	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
675	420536.8	3733870	1.14E-05	5.22E-05	1.14E-07	1.57E-06	7.14E-06	1.70E-08	9.61E-07	3.28E-06	3.95E-09
676	420546.3	3733868	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.15E-06	1.70E-08	9.62E-07	3.29E-06	3.95E-09
677	420555.9	3733866	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
678	420565.5	3733865	1.15E-05	5.26E-05	1.15E-07	1.58E-06	7.19E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
679	420575	3733863	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
680	420584.6	3733861	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.74E-07	3.33E-06	4.00E-09
681	420594.1	3733860	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
682	420603.7	3733858	1.17E-05	5.33E-05	1.17E-07	1.60E-06	7.29E-06	1.74E-08	9.81E-07	3.35E-06	4.03E-09
683	420747.1	3733832	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
684	420756.7	3733831	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
685	420766.3	3733829	1.22E-05	5.57E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.21E-09
686	420775.8	3733827	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
687	420785.4	3733825	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.49E-06	4.20E-09
688	420795	3733824	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.59E-06	1.81E-08	1.02E-06	3.49E-06	4.20E-09
689	420804.5	3733822	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.58E-06	1.81E-08	1.02E-06	3.48E-06	4.19E-09
690	420814.1	3733820	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
691	420823.6	3733819	1.21E-05	5.52E-05	1.21E-07	1.65E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
692	420833.2	3733817	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
693	420842.8	3733815	1.20E-05	5.49E-05	1.20E-07	1.64E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
694	420852.3	3733813	1.20E-05	5.47E-05	1.19E-07	1.64E-06	7.47E-06	1.78E-08	1.01E-06	3.43E-06	4.13E-09
695	420220.7	3734289	2.10E-05	9.58E-05	2.10E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
696	420220.7	3734299	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
697	420220.6	3734309	2.08E-05	9.50E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
698	420220.6	3734319	2.07E-05	9.46E-05	2.07E-07	2.83E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
699	420220.6	3734329	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
700	420220.5	3734339	2.05E-05	9.35E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.88E-06	7.07E-09
701	420220.5	3734349	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.02E-09
702	420220.4	3734368	2.01E-05	9.18E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
703	420198.5	3734254	1.91E-05	8.75E-05	1.91E-07	2.62E-06	1.20E-05	2.85E-08	1.61E-06	5.50E-06	6.61E-09
704	420202.9	3734245	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09

705	420207.3	3734236	1.99E-05	9.10E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.72E-06	6.87E-09
706	420211.8	3734228	2.02E-05	9.26E-05	2.02E-07	2.78E-06	1.27E-05	3.01E-08	1.70E-06	5.82E-06	7.00E-09
707	420216.2	3734219	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
708	420220.7	3734210	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
709	420225.1	3734201	2.11E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
710	420229.5	3734192	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.18E-08	1.80E-06	6.14E-06	7.39E-09
711	420234	3734184	2.16E-05	9.86E-05	2.16E-07	2.96E-06	1.35E-05	3.21E-08	1.82E-06	6.20E-06	7.46E-09
712	420238.4	3734175	2.17E-05	9.93E-05	2.17E-07	2.98E-06	1.36E-05	3.23E-08	1.83E-06	6.24E-06	7.51E-09
713	420265	3734122	2.17E-05	9.91E-05	2.17E-07	2.97E-06	1.35E-05	3.23E-08	1.82E-06	6.23E-06	7.49E-09
714	420269.5	3734113	2.15E-05	9.83E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
715	420273.9	3734105	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.12E-06	7.36E-09
716	420278.3	3734096	2.10E-05	9.62E-05	2.10E-07	2.88E-06	1.31E-05	3.13E-08	1.77E-06	6.04E-06	7.27E-09
717	420282.8	3734087	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.75E-06	5.96E-06	7.17E-09
718	420287.2	3734078	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
719	420291.6	3734069	2.01E-05	9.18E-05	2.01E-07	2.75E-06	1.26E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
720	420296.1	3734061	1.97E-05	9.01E-05	1.97E-07	2.70E-06	1.23E-05	2.93E-08	1.66E-06	5.66E-06	6.81E-09
721	420309.4	3734034	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
722	420313.8	3734025	1.80E-05	8.22E-05	1.80E-07	2.47E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
723	420318.3	3734017	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
724	420322.7	3734008	1.71E-05	7.80E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.90E-06	5.89E-09
725	420327.1	3733999	1.66E-05	7.58E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.73E-09
726	420331.6	3733990	1.61E-05	7.37E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.63E-06	5.57E-09
727	420336	3733981	1.56E-05	7.15E-05	1.56E-07	2.15E-06	9.78E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
728	420340.4	3733973	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.50E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
729	420344.9	3733964	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
730	420349.3	3733955	1.43E-05	6.53E-05	1.43E-07	1.96E-06	8.93E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
731	420362.6	3733929	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.15E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
732	420384.8	3733885	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.01E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
733	420389.3	3733876	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.77E-09
734	420393.7	3733867	1.06E-05	4.84E-05	1.06E-07	1.45E-06	6.62E-06	1.58E-08	8.91E-07	3.04E-06	3.66E-09
735	420407.8	3733857	1.03E-05	4.69E-05	1.03E-07	1.41E-06	6.42E-06	1.53E-08	8.64E-07	2.95E-06	3.55E-09
736	420417.5	3733855	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
737	420427.2	3733853	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.38E-06	1.52E-08	8.58E-07	2.93E-06	3.53E-09
738	420436.9	3733851	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
739	420446.6	3733850	1.02E-05	4.64E-05	1.01E-07	1.39E-06	6.35E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
740	420456.3	3733848	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
741	420466	3733846	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
742	420475.7	3733844	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.51E-07	2.91E-06	3.50E-09
743	420485.4	3733843	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.51E-07	2.91E-06	3.50E-09
744	420495.1	3733841	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
745	420504.8	3733839	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
746	420514.5	3733838	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
747	420524.2	3733836	1.02E-05	4.64E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
748	420533.9	3733834	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
749	420543.6	3733832	1.02E-05	4.66E-05	1.02E-07	1.40E-06	6.38E-06	1.52E-08	8.58E-07	2.93E-06	3.52E-09
750	420553.2	3733831	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.60E-07	2.94E-06	3.53E-09
751	420562.9	3733829	1.03E-05	4.69E-05	1.03E-07	1.41E-06	6.41E-06	1.53E-08	8.63E-07	2.95E-06	3.54E-09
752	420572.6	3733827	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
753	420582.3	3733825	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
754	420592	3733824	1.04E-05	4.74E-05	1.04E-07	1.42E-06	6.48E-06	1.54E-08	8.72E-07	2.98E-06	3.58E-09
755	420601.7	3733822	1.04E-05	4.76E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.60E-09
756	420640.5	3733815	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
757	420650.2	3733813	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.92E-07	3.05E-06	3.66E-09
758	420659.9	3733811	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.65E-06	1.58E-08	8.95E-07	3.06E-06	3.68E-09
759	420669.6	3733810	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
760	420679.3	3733808	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.70E-06	1.59E-08	9.01E-07	3.08E-06	3.70E-09
761	420689	3733806	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.72E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
762	420698.7	3733805	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.74E-06	1.60E-08	9.07E-07	3.10E-06	3.72E-09
763	420708.4	3733803	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09

764	420718.1	3733801	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.10E-07	3.11E-06	3.74E-09
765	420727.8	3733799	1.08E-05	4.96E-05	1.08E-07	1.49E-06	6.78E-06	1.61E-08	9.12E-07	3.12E-06	3.75E-09
766	420737.5	3733798	1.09E-05	4.96E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
767	420747.2	3733796	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.12E-06	3.76E-09
768	420756.8	3733794	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
769	420766.5	3733792	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
770	420776.2	3733791	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
771	420785.9	3733789	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
772	420795.6	3733787	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.76E-09
773	420805.3	3733785	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
774	420815	3733784	1.08E-05	4.95E-05	1.08E-07	1.49E-06	6.77E-06	1.61E-08	9.12E-07	3.11E-06	3.74E-09
775	420824.7	3733782	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.76E-06	1.61E-08	9.10E-07	3.11E-06	3.74E-09
776	420834.4	3733780	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.08E-07	3.10E-06	3.73E-09
777	420844.1	3733779	1.08E-05	4.92E-05	1.08E-07	1.47E-06	6.73E-06	1.60E-08	9.05E-07	3.09E-06	3.72E-09
778	420853.8	3733777	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.02E-07	3.08E-06	3.71E-09
779	420863.5	3733775	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
780	420180.7	3734289	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.60E-08	1.47E-06	5.03E-06	6.05E-09
781	420180.7	3734299	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.02E-09
782	420180.6	3734309	1.73E-05	7.92E-05	1.73E-07	2.37E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.98E-09
783	420180.6	3734319	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
784	420180.6	3734329	1.71E-05	7.83E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.92E-06	5.92E-09
785	420180.5	3734338	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
786	420180.5	3734348	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
787	420180.4	3734368	1.67E-05	7.64E-05	1.67E-07	2.29E-06	1.04E-05	2.49E-08	1.41E-06	4.80E-06	5.77E-09
788	420158.3	3734254	1.61E-05	7.38E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.64E-06	5.58E-09
789	420162.7	3734245	1.65E-05	7.54E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.74E-06	5.70E-09
790	420167.2	3734237	1.68E-05	7.69E-05	1.68E-07	2.31E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.81E-09
791	420171.6	3734228	1.71E-05	7.84E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.93E-06	5.92E-09
792	420176	3734219	1.74E-05	7.98E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.01E-06	6.03E-09
793	420180.4	3734210	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.13E-09
794	420184.8	3734202	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.22E-09
795	420189.2	3734193	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
796	420193.6	3734184	1.85E-05	8.46E-05	1.85E-07	2.54E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
797	420198	3734176	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
798	420211.2	3734149	1.91E-05	8.74E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
799	420215.6	3734141	1.92E-05	8.77E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.61E-06	5.51E-06	6.63E-09
800	420220	3734132	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
801	420224.4	3734123	1.92E-05	8.79E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
802	420228.8	3734114	1.92E-05	8.77E-05	1.92E-07	2.63E-06	1.20E-05	2.85E-08	1.61E-06	5.51E-06	6.63E-09
803	420233.2	3734106	1.91E-05	8.73E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
804	420237.6	3734097	1.90E-05	8.68E-05	1.90E-07	2.60E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.56E-09
805	420242.1	3734088	1.88E-05	8.62E-05	1.88E-07	2.58E-06	1.18E-05	2.81E-08	1.59E-06	5.41E-06	6.51E-09
806	420246.5	3734079	1.87E-05	8.53E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.36E-06	6.45E-09
807	420268.5	3734036	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
808	420272.9	3734027	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
809	420277.3	3734018	1.67E-05	7.64E-05	1.67E-07	2.29E-06	1.04E-05	2.49E-08	1.41E-06	4.80E-06	5.77E-09
810	420281.7	3734010	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
811	420286.1	3734001	1.60E-05	7.31E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
812	420290.5	3733992	1.56E-05	7.14E-05	1.56E-07	2.14E-06	9.76E-06	2.32E-08	1.31E-06	4.49E-06	5.39E-09
813	420294.9	3733983	1.52E-05	6.96E-05	1.52E-07	2.09E-06	9.52E-06	2.27E-08	1.28E-06	4.38E-06	5.26E-09
814	420299.3	3733975	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
815	420303.7	3733966	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.04E-06	2.15E-08	1.22E-06	4.15E-06	5.00E-09
816	420308.1	3733957	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.80E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
817	420312.5	3733948	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
818	420325.8	3733922	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.87E-06	1.87E-08	1.06E-06	3.62E-06	4.35E-09
819	420330.2	3733914	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.65E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
820	420334.6	3733905	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
821	420339	3733896	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
822	420343.4	3733887	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.45E-07	3.23E-06	3.88E-09

823	420347.8	3733879	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.82E-06	1.62E-08	9.18E-07	3.14E-06	3.77E-09
824	420352.2	3733870	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.93E-07	3.05E-06	3.67E-09
825	420356.6	3733861	1.03E-05	4.72E-05	1.03E-07	1.41E-06	6.45E-06	1.54E-08	8.68E-07	2.96E-06	3.57E-09
826	420361	3733852	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.49E-08	8.45E-07	2.89E-06	3.47E-09
827	420365.4	3733844	9.77E-06	4.47E-05	9.77E-08	1.34E-06	6.11E-06	1.45E-08	8.22E-07	2.81E-06	3.38E-09
828	420383.9	3733825	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
829	420393.5	3733823	9.21E-06	4.21E-05	9.20E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.18E-09
830	420403.1	3733821	9.18E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.72E-07	2.64E-06	3.17E-09
831	420412.7	3733819	9.16E-06	4.19E-05	9.15E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.16E-09
832	420422.4	3733818	9.14E-06	4.18E-05	9.13E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
833	420432	3733816	9.12E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
834	420441.6	3733814	9.10E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.66E-07	2.61E-06	3.14E-09
835	420451.2	3733812	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.68E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
836	420460.9	3733811	9.08E-06	4.15E-05	9.08E-08	1.24E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
837	420470.5	3733809	9.08E-06	4.15E-05	9.07E-08	1.24E-06	5.67E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
838	420480.1	3733807	9.08E-06	4.15E-05	9.08E-08	1.24E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
839	420489.8	3733806	9.09E-06	4.15E-05	9.08E-08	1.25E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
840	420499.4	3733804	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
841	420509	3733802	9.10E-06	4.16E-05	9.10E-08	1.25E-06	5.69E-06	1.36E-08	7.66E-07	2.62E-06	3.15E-09
842	420518.6	3733800	9.12E-06	4.17E-05	9.12E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
843	420528.3	3733799	9.14E-06	4.18E-05	9.14E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
844	420537.9	3733797	9.16E-06	4.19E-05	9.16E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.17E-09
845	420547.5	3733795	9.19E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.73E-07	2.64E-06	3.17E-09
846	420557.2	3733794	9.22E-06	4.21E-05	9.21E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.19E-09
847	420566.8	3733792	9.25E-06	4.23E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.78E-07	2.66E-06	3.19E-09
848	420576.4	3733790	9.28E-06	4.24E-05	9.27E-08	1.27E-06	5.80E-06	1.38E-08	7.80E-07	2.67E-06	3.21E-09
849	420586	3733788	9.31E-06	4.26E-05	9.31E-08	1.28E-06	5.82E-06	1.39E-08	7.84E-07	2.68E-06	3.22E-09
850	420595.7	3733787	9.35E-06	4.27E-05	9.34E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
851	420605.3	3733785	9.39E-06	4.29E-05	9.38E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.24E-09
852	420634.2	3733780	9.49E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
853	420643.8	3733778	9.53E-06	4.36E-05	9.52E-08	1.31E-06	5.96E-06	1.42E-08	8.02E-07	2.74E-06	3.29E-09
854	420653.4	3733776	9.56E-06	4.37E-05	9.56E-08	1.31E-06	5.98E-06	1.42E-08	8.05E-07	2.75E-06	3.30E-09
855	420663.1	3733775	9.59E-06	4.38E-05	9.59E-08	1.31E-06	6.00E-06	1.43E-08	8.07E-07	2.76E-06	3.31E-09
856	420672.7	3733773	9.63E-06	4.40E-05	9.62E-08	1.32E-06	6.02E-06	1.43E-08	8.10E-07	2.77E-06	3.33E-09
857	420682.3	3733771	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
858	420691.9	3733769	9.69E-06	4.43E-05	9.68E-08	1.33E-06	6.06E-06	1.44E-08	8.15E-07	2.78E-06	3.35E-09
859	420701.6	3733768	9.71E-06	4.44E-05	9.70E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.35E-09
860	420711.2	3733766	9.73E-06	4.45E-05	9.72E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
861	420720.8	3733764	9.75E-06	4.46E-05	9.74E-08	1.34E-06	6.10E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
862	420730.4	3733763	9.77E-06	4.47E-05	9.76E-08	1.34E-06	6.11E-06	1.45E-08	8.22E-07	2.81E-06	3.38E-09
863	420740.1	3733761	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
864	420749.7	3733759	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
865	420759.3	3733757	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
866	420769	3733756	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
867	420778.6	3733754	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
868	420788.2	3733752	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
869	420797.8	3733750	9.80E-06	4.48E-05	9.79E-08	1.34E-06	6.13E-06	1.46E-08	8.24E-07	2.82E-06	3.39E-09
870	420807.5	3733749	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
871	420817.1	3733747	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
872	420826.7	3733745	9.76E-06	4.46E-05	9.76E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.81E-06	3.37E-09
873	420836.3	3733744	9.74E-06	4.46E-05	9.74E-08	1.34E-06	6.09E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
874	420846	3733742	9.72E-06	4.45E-05	9.72E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
875	420855.6	3733740	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
876	420865.2	3733738	9.67E-06	4.42E-05	9.67E-08	1.33E-06	6.05E-06	1.44E-08	8.14E-07	2.78E-06	3.34E-09
877	420874.9	3733737	9.64E-06	4.41E-05	9.64E-08	1.32E-06	6.03E-06	1.44E-08	8.11E-07	2.77E-06	3.33E-09
878	420140.7	3734289	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
879	420140.7	3734299	1.47E-05	6.72E-05	1.47E-07	2.01E-06	9.19E-06	2.19E-08	1.24E-06	4.22E-06	5.08E-09
880	420140.6	3734309	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.14E-06	2.18E-08	1.23E-06	4.20E-06	5.05E-09
881	420140.6	3734319	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.18E-06	5.02E-09

882	420140.6	3734328	1.44E-05	6.61E-05	1.44E-07	1.98E-06	9.03E-06	2.15E-08	1.22E-06	4.15E-06	4.99E-09
883	420140.5	3734338	1.44E-05	6.57E-05	1.44E-07	1.97E-06	8.98E-06	2.14E-08	1.21E-06	4.13E-06	4.96E-09
884	420140.5	3734348	1.43E-05	6.53E-05	1.43E-07	1.96E-06	8.93E-06	2.13E-08	1.20E-06	4.10E-06	4.93E-09
885	420140.4	3734368	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
886	420118.2	3734254	1.38E-05	6.29E-05	1.38E-07	1.89E-06	8.61E-06	2.05E-08	1.16E-06	3.96E-06	4.76E-09
887	420122.6	3734245	1.41E-05	6.43E-05	1.40E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
888	420127	3734237	1.43E-05	6.56E-05	1.43E-07	1.97E-06	8.97E-06	2.13E-08	1.21E-06	4.12E-06	4.96E-09
889	420144.5	3734202	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.30E-08	1.30E-06	4.43E-06	5.33E-09
890	420148.9	3734193	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.50E-06	5.42E-09
891	420153.3	3734185	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
892	420157.6	3734176	1.61E-05	7.37E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.63E-06	5.57E-09
893	420170.8	3734150	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
894	420175.2	3734141	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.79E-09
895	420179.5	3734133	1.69E-05	7.71E-05	1.69E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
896	420183.9	3734124	1.69E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.85E-09
897	420188.3	3734115	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
898	420192.7	3734107	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
899	420197.1	3734098	1.70E-05	7.77E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.87E-09
900	420201.4	3734089	1.69E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.86E-09
901	420205.8	3734081	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
902	420210.2	3734072	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.80E-09
903	420214.6	3734063	1.67E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.79E-06	5.75E-09
904	420232.1	3734028	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.50E-09
905	420236.5	3734020	1.57E-05	7.18E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
906	420240.9	3734011	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
907	420245.2	3734002	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
908	420262.7	3733968	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.76E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
909	420267.1	3733959	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
910	420271.5	3733950	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
911	420284.6	3733924	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
912	420289	3733916	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
913	420293.4	3733907	1.18E-05	5.39E-05	1.18E-07	1.62E-06	7.37E-06	1.76E-08	9.92E-07	3.39E-06	4.08E-09
914	420297.8	3733898	1.15E-05	5.25E-05	1.15E-07	1.58E-06	7.18E-06	1.71E-08	9.67E-07	3.30E-06	3.97E-09
915	420302.2	3733890	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.67E-08	9.41E-07	3.21E-06	3.87E-09
916	420306.5	3733881	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
917	420310.9	3733872	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.63E-06	1.58E-08	8.92E-07	3.05E-06	3.66E-09
918	420315.3	3733864	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
919	420319.7	3733855	1.01E-05	4.60E-05	1.00E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.47E-09
920	420324.1	3733846	9.79E-06	4.48E-05	9.79E-08	1.34E-06	6.12E-06	1.46E-08	8.24E-07	2.81E-06	3.38E-09
921	420328.4	3733838	9.54E-06	4.36E-05	9.53E-08	1.31E-06	5.96E-06	1.42E-08	8.02E-07	2.74E-06	3.30E-09
922	420341.6	3733812	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
923	420346	3733803	8.61E-06	3.94E-05	8.61E-08	1.18E-06	5.38E-06	1.28E-08	7.25E-07	2.47E-06	2.98E-09
924	420359.9	3733792	8.38E-06	3.83E-05	8.37E-08	1.15E-06	5.24E-06	1.25E-08	7.05E-07	2.41E-06	2.89E-09
925	420388.6	3733787	8.30E-06	3.79E-05	8.30E-08	1.14E-06	5.19E-06	1.24E-08	6.98E-07	2.38E-06	2.87E-09
926	420398.2	3733786	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
927	420407.7	3733784	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
928	420417.3	3733782	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
929	420426.9	3733780	8.23E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
930	420436.5	3733779	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
931	420446	3733777	8.21E-06	3.76E-05	8.21E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
932	420455.6	3733775	8.21E-06	3.75E-05	8.20E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
933	420465.2	3733774	8.21E-06	3.75E-05	8.20E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
934	420474.7	3733772	8.21E-06	3.76E-05	8.21E-08	1.13E-06	5.13E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
935	420484.3	3733770	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
936	420493.9	3733768	8.23E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
937	420503.4	3733767	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
938	420513	3733765	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
939	420522.6	3733763	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
940	420532.1	3733762	8.30E-06	3.79E-05	8.29E-08	1.14E-06	5.19E-06	1.23E-08	6.98E-07	2.38E-06	2.87E-09

941	420541.7	3733760	8.32E-06	3.81E-05	8.32E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.88E-09
942	420551.3	3733758	8.35E-06	3.82E-05	8.34E-08	1.14E-06	5.22E-06	1.24E-08	7.02E-07	2.40E-06	2.88E-09
943	420560.9	3733757	8.37E-06	3.83E-05	8.37E-08	1.15E-06	5.23E-06	1.25E-08	7.04E-07	2.41E-06	2.89E-09
944	420570.4	3733755	8.40E-06	3.84E-05	8.40E-08	1.15E-06	5.25E-06	1.25E-08	7.07E-07	2.41E-06	2.90E-09
945	420580	3733753	8.44E-06	3.86E-05	8.43E-08	1.16E-06	5.27E-06	1.26E-08	7.10E-07	2.42E-06	2.92E-09
946	420589.6	3733751	8.47E-06	3.87E-05	8.46E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.93E-09
947	420599.1	3733750	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.31E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
948	420608.7	3733748	8.54E-06	3.90E-05	8.53E-08	1.17E-06	5.34E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
949	420618.3	3733746	8.57E-06	3.92E-05	8.56E-08	1.17E-06	5.36E-06	1.28E-08	7.21E-07	2.46E-06	2.96E-09
950	420647	3733741	8.66E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
951	420656.5	3733739	8.69E-06	3.97E-05	8.69E-08	1.19E-06	5.43E-06	1.29E-08	7.31E-07	2.50E-06	3.00E-09
952	420666.1	3733738	8.72E-06	3.99E-05	8.71E-08	1.20E-06	5.45E-06	1.30E-08	7.33E-07	2.51E-06	3.01E-09
953	420675.7	3733736	8.75E-06	4.00E-05	8.74E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.51E-06	3.02E-09
954	420685.3	3733734	8.77E-06	4.01E-05	8.77E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
955	420694.8	3733733	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
956	420704.4	3733731	8.82E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.42E-07	2.53E-06	3.05E-09
957	420714	3733729	8.84E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.32E-08	7.43E-07	2.54E-06	3.05E-09
958	420723.5	3733727	8.85E-06	4.05E-05	8.85E-08	1.21E-06	5.54E-06	1.32E-08	7.45E-07	2.54E-06	3.06E-09
959	420733.1	3733726	8.87E-06	4.06E-05	8.87E-08	1.22E-06	5.55E-06	1.32E-08	7.46E-07	2.55E-06	3.07E-09
960	420742.7	3733724	8.89E-06	4.06E-05	8.88E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.55E-06	3.07E-09
961	420752.2	3733722	8.89E-06	4.07E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.56E-06	3.07E-09
962	420761.8	3733721	8.90E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
963	420771.4	3733719	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
964	420780.9	3733717	8.91E-06	4.08E-05	8.91E-08	1.22E-06	5.57E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
965	420790.5	3733715	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
966	420800.1	3733714	8.91E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
967	420809.7	3733712	8.90E-06	4.07E-05	8.90E-08	1.22E-06	5.57E-06	1.33E-08	7.49E-07	2.56E-06	3.08E-09
968	420819.2	3733710	8.89E-06	4.07E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.56E-06	3.07E-09
969	420828.8	3733709	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
970	420838.4	3733707	8.87E-06	4.05E-05	8.86E-08	1.22E-06	5.54E-06	1.32E-08	7.46E-07	2.55E-06	3.06E-09
971	420847.9	3733705	8.85E-06	4.05E-05	8.84E-08	1.21E-06	5.53E-06	1.32E-08	7.45E-07	2.54E-06	3.06E-09
972	420857.5	3733703	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
973	420867.1	3733702	8.81E-06	4.03E-05	8.80E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.04E-09
974	420876.6	3733700	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
975	420886.2	3733698	8.76E-06	4.01E-05	8.76E-08	1.20E-06	5.48E-06	1.30E-08	7.37E-07	2.52E-06	3.03E-09
976	420100.7	3734289	1.26E-05	5.78E-05	1.26E-07	1.73E-06	7.90E-06	1.88E-08	1.06E-06	3.63E-06	4.37E-09
977	420100.7	3734299	1.26E-05	5.74E-05	1.26E-07	1.72E-06	7.85E-06	1.87E-08	1.06E-06	3.61E-06	4.34E-09
978	420100.6	3734309	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
979	420100.6	3734318	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
980	420100.6	3734328	1.23E-05	5.65E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
981	420100.5	3734338	1.23E-05	5.62E-05	1.23E-07	1.68E-06	7.68E-06	1.83E-08	1.03E-06	3.53E-06	4.24E-09
982	420100.5	3734348	1.22E-05	5.58E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
983	420100.4	3734368	1.21E-05	5.52E-05	1.21E-07	1.66E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
984	420078.4	3734254	1.19E-05	5.42E-05	1.19E-07	1.63E-06	7.42E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
985	420082.9	3734245	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
986	420087.3	3734236	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
987	420091.7	3734227	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
988	420096.1	3734218	1.29E-05	5.88E-05	1.28E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
989	420100.6	3734210	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
990	420105	3734201	1.33E-05	6.09E-05	1.33E-07	1.83E-06	8.33E-06	1.98E-08	1.12E-06	3.83E-06	4.61E-09
991	420109.4	3734192	1.36E-05	6.20E-05	1.36E-07	1.86E-06	8.48E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
992	420113.9	3734183	1.38E-05	6.30E-05	1.38E-07	1.89E-06	8.61E-06	2.05E-08	1.16E-06	3.96E-06	4.76E-09
993	420118.3	3734175	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.02E-06	4.83E-09
994	420144.9	3734122	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
995	420149.3	3734113	1.50E-05	6.87E-05	1.50E-07	2.06E-06	9.40E-06	2.24E-08	1.26E-06	4.32E-06	5.19E-09
996	420153.7	3734104	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.44E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
997	420158.2	3734096	1.51E-05	6.92E-05	1.51E-07	2.07E-06	9.46E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
998	420162.6	3734087	1.52E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.24E-09
999	420167	3734078	1.51E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.23E-09

1000	420171.4	3734069	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
1001	420175.9	3734060	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.42E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
1002	420189.2	3734034	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
1003	420193.6	3734025	1.46E-05	6.69E-05	1.46E-07	2.01E-06	9.15E-06	2.18E-08	1.23E-06	4.21E-06	5.06E-09
1004	420198	3734017	1.45E-05	6.63E-05	1.45E-07	1.99E-06	9.06E-06	2.16E-08	1.22E-06	4.16E-06	5.01E-09
1005	420202.4	3734008	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
1006	420206.9	3733999	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
1007	420211.3	3733990	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.70E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
1008	420215.7	3733982	1.37E-05	6.27E-05	1.37E-07	1.88E-06	8.57E-06	2.04E-08	1.15E-06	3.94E-06	4.74E-09
1009	420220.2	3733973	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
1010	420224.6	3733964	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1011	420229	3733955	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
1012	420260	3733894	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
1013	420264.4	3733885	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
1014	420268.9	3733876	1.06E-05	4.84E-05	1.06E-07	1.45E-06	6.62E-06	1.58E-08	8.91E-07	3.04E-06	3.66E-09
1015	420273.3	3733867	1.03E-05	4.72E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.69E-07	2.97E-06	3.57E-09
1016	420277.7	3733859	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
1017	420282.2	3733850	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
1018	420286.6	3733841	9.58E-06	4.38E-05	9.57E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
1019	420299.9	3733815	8.88E-06	4.06E-05	8.87E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
1020	420304.3	3733806	8.65E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
1021	420308.7	3733797	8.44E-06	3.86E-05	8.44E-08	1.16E-06	5.28E-06	1.26E-08	7.10E-07	2.43E-06	2.92E-09
1022	420313.2	3733788	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
1023	420317.6	3733780	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
1024	420322	3733771	7.85E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.71E-09
1025	420336.1	3733760	7.65E-06	3.50E-05	7.64E-08	1.05E-06	4.78E-06	1.14E-08	6.43E-07	2.20E-06	2.64E-09
1026	420345.8	3733759	7.62E-06	3.48E-05	7.61E-08	1.04E-06	4.76E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
1027	420355.5	3733757	7.60E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1028	420365.1	3733755	7.57E-06	3.46E-05	7.57E-08	1.04E-06	4.73E-06	1.13E-08	6.37E-07	2.18E-06	2.62E-09
1029	420384.5	3733752	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
1030	420394.2	3733750	7.51E-06	3.44E-05	7.51E-08	1.03E-06	4.70E-06	1.12E-08	6.32E-07	2.16E-06	2.60E-09
1031	420403.9	3733748	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1032	420413.5	3733747	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1033	420423.2	3733745	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1034	420432.9	3733743	7.48E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1035	420442.6	3733741	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1036	420452.2	3733740	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1037	420461.9	3733738	7.48E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1038	420471.6	3733736	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1039	420481.3	3733734	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1040	420491	3733733	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1041	420500.6	3733731	7.52E-06	3.44E-05	7.51E-08	1.03E-06	4.70E-06	1.12E-08	6.32E-07	2.16E-06	2.60E-09
1042	420510.3	3733729	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
1043	420520	3733727	7.55E-06	3.45E-05	7.55E-08	1.03E-06	4.72E-06	1.12E-08	6.35E-07	2.17E-06	2.61E-09
1044	420529.7	3733726	7.57E-06	3.46E-05	7.57E-08	1.04E-06	4.73E-06	1.13E-08	6.37E-07	2.18E-06	2.62E-09
1045	420539.3	3733724	7.60E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1046	420549	3733722	7.62E-06	3.49E-05	7.62E-08	1.04E-06	4.77E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
1047	420558.7	3733721	7.65E-06	3.50E-05	7.65E-08	1.05E-06	4.78E-06	1.14E-08	6.44E-07	2.20E-06	2.64E-09
1048	420568.4	3733719	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
1049	420578	3733717	7.71E-06	3.52E-05	7.70E-08	1.06E-06	4.82E-06	1.15E-08	6.49E-07	2.22E-06	2.66E-09
1050	420587.7	3733715	7.74E-06	3.54E-05	7.73E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
1051	420597.4	3733714	7.77E-06	3.55E-05	7.76E-08	1.06E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.68E-09
1052	420607.1	3733712	7.80E-06	3.57E-05	7.80E-08	1.07E-06	4.88E-06	1.16E-08	6.56E-07	2.24E-06	2.70E-09
1053	420616.8	3733710	7.83E-06	3.58E-05	7.83E-08	1.07E-06	4.90E-06	1.17E-08	6.59E-07	2.25E-06	2.71E-09
1054	420626.4	3733708	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
1055	420665.1	3733702	7.97E-06	3.64E-05	7.96E-08	1.09E-06	4.98E-06	1.19E-08	6.70E-07	2.29E-06	2.75E-09
1056	420674.8	3733700	8.00E-06	3.66E-05	7.99E-08	1.10E-06	5.00E-06	1.19E-08	6.73E-07	2.30E-06	2.76E-09
1057	420684.5	3733698	8.02E-06	3.67E-05	8.01E-08	1.10E-06	5.01E-06	1.19E-08	6.75E-07	2.30E-06	2.77E-09
1058	420694.2	3733696	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09

1059	420703.9	3733695	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1060	420713.5	3733693	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1061	420723.2	3733691	8.10E-06	3.70E-05	8.09E-08	1.11E-06	5.06E-06	1.20E-08	6.81E-07	2.33E-06	2.80E-09
1062	420732.9	3733689	8.11E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1063	420742.6	3733688	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1064	420752.2	3733686	8.14E-06	3.72E-05	8.13E-08	1.12E-06	5.09E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1065	420761.9	3733684	8.14E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1066	420771.6	3733682	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1067	420781.3	3733681	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1068	420790.9	3733679	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1069	420800.6	3733677	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1070	420810.3	3733676	8.15E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1071	420820	3733674	8.14E-06	3.72E-05	8.14E-08	1.12E-06	5.09E-06	1.21E-08	6.85E-07	2.34E-06	2.81E-09
1072	420829.7	3733672	8.14E-06	3.72E-05	8.13E-08	1.12E-06	5.09E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1073	420839.3	3733670	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1074	420849	3733669	8.11E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1075	420858.7	3733667	8.10E-06	3.70E-05	8.09E-08	1.11E-06	5.06E-06	1.20E-08	6.81E-07	2.33E-06	2.80E-09
1076	420868.4	3733665	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1077	420878	3733663	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1078	420887.7	3733662	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
1079	420897.4	3733660	8.02E-06	3.67E-05	8.02E-08	1.10E-06	5.02E-06	1.19E-08	6.75E-07	2.31E-06	2.77E-09
1080	420060.7	3734289	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.83E-06	1.63E-08	9.19E-07	3.14E-06	3.77E-09
1081	420060.7	3734299	1.09E-05	4.96E-05	1.09E-07	1.49E-06	6.79E-06	1.62E-08	9.14E-07	3.12E-06	3.75E-09
1082	420060.6	3734308	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
1083	420060.6	3734318	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
1084	420060.6	3734328	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
1085	420060.5	3734338	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
1086	420060.5	3734348	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
1087	420060.4	3734358	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.57E-06	1.56E-08	8.84E-07	3.02E-06	3.63E-09
1088	420060.4	3734368	1.05E-05	4.78E-05	1.04E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.00E-06	3.61E-09
1089	420042.7	3734245	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
1090	420047.1	3734236	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.02E-07	3.08E-06	3.71E-09
1091	420051.5	3734227	1.09E-05	5.00E-05	1.09E-07	1.50E-06	6.84E-06	1.63E-08	9.20E-07	3.14E-06	3.78E-09
1092	420055.9	3734219	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
1093	420060.4	3734210	1.14E-05	5.19E-05	1.13E-07	1.56E-06	7.10E-06	1.69E-08	9.55E-07	3.26E-06	3.92E-09
1094	420064.8	3734201	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
1095	420069.2	3734193	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
1096	420073.6	3734184	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.14E-09
1097	420078	3734175	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.60E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
1098	420091.2	3734149	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
1099	420095.6	3734140	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.05E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
1100	420100	3734131	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
1101	420104.4	3734123	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
1102	420108.8	3734114	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.30E-06	1.98E-08	1.12E-06	3.82E-06	4.59E-09
1103	420113.2	3734105	1.34E-05	6.12E-05	1.34E-07	1.83E-06	8.37E-06	1.99E-08	1.13E-06	3.85E-06	4.63E-09
1104	420117.6	3734097	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
1105	420122	3734088	1.35E-05	6.19E-05	1.35E-07	1.86E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.68E-09
1106	420126.4	3734079	1.36E-05	6.21E-05	1.36E-07	1.86E-06	8.49E-06	2.02E-08	1.14E-06	3.90E-06	4.69E-09
1107	420152.8	3734027	1.35E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
1108	420157.2	3734018	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
1109	420161.6	3734009	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
1110	420166	3734001	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
1111	420170.4	3733992	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
1112	420174.8	3733983	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
1113	420179.2	3733974	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
1114	420183.6	3733966	1.25E-05	5.73E-05	1.25E-07	1.72E-06	7.84E-06	1.87E-08	1.06E-06	3.60E-06	4.33E-09
1115	420188.1	3733957	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
1116	420205.7	3733922	1.16E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
1117	420210.1	3733913	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09

1118	420214.5	3733905	1.11E-05	5.08E-05	1.11E-07	1.52E-06	6.95E-06	1.65E-08	9.35E-07	3.19E-06	3.84E-09
1119	420218.9	3733896	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.76E-09
1120	420223.3	3733887	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.67E-06	1.59E-08	8.97E-07	3.07E-06	3.69E-09
1121	420227.7	3733878	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.78E-07	3.00E-06	3.61E-09
1122	420232.1	3733870	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.59E-07	2.93E-06	3.53E-09
1123	420236.5	3733861	9.99E-06	4.57E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
1124	420240.9	3733852	9.76E-06	4.46E-05	9.75E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.80E-06	3.37E-09
1125	420262.9	3733809	8.67E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
1126	420267.3	3733800	8.47E-06	3.87E-05	8.46E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.93E-09
1127	420271.7	3733791	8.27E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
1128	420276.1	3733782	8.08E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1129	420280.5	3733774	7.89E-06	3.61E-05	7.89E-08	1.08E-06	4.93E-06	1.17E-08	6.64E-07	2.27E-06	2.73E-09
1130	420284.9	3733765	7.71E-06	3.53E-05	7.71E-08	1.06E-06	4.82E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
1131	420289.3	3733756	7.54E-06	3.45E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.17E-06	2.60E-09
1132	420293.7	3733747	7.37E-06	3.37E-05	7.36E-08	1.01E-06	4.61E-06	1.10E-08	6.20E-07	2.12E-06	2.55E-09
1133	420298.1	3733739	7.20E-06	3.29E-05	7.20E-08	9.88E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
1134	420312.2	3733728	7.02E-06	3.21E-05	7.02E-08	9.63E-07	4.39E-06	1.05E-08	5.91E-07	2.02E-06	2.43E-09
1135	420321.8	3733727	7.00E-06	3.20E-05	7.00E-08	9.60E-07	4.38E-06	1.04E-08	5.89E-07	2.01E-06	2.42E-09
1136	420331.4	3733725	6.97E-06	3.19E-05	6.97E-08	9.56E-07	4.36E-06	1.04E-08	5.87E-07	2.00E-06	2.41E-09
1137	420341	3733723	6.95E-06	3.18E-05	6.95E-08	9.53E-07	4.34E-06	1.03E-08	5.85E-07	2.00E-06	2.40E-09
1138	420350.7	3733721	6.93E-06	3.17E-05	6.93E-08	9.50E-07	4.33E-06	1.03E-08	5.83E-07	1.99E-06	2.40E-09
1139	420360.3	3733720	6.91E-06	3.16E-05	6.91E-08	9.48E-07	4.32E-06	1.03E-08	5.82E-07	1.99E-06	2.39E-09
1140	420389.1	3733715	6.87E-06	3.14E-05	6.87E-08	9.42E-07	4.30E-06	1.02E-08	5.78E-07	1.97E-06	2.37E-09
1141	420398.8	3733713	6.86E-06	3.14E-05	6.86E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1142	420408.4	3733711	6.85E-06	3.13E-05	6.85E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1143	420418	3733709	6.85E-06	3.13E-05	6.85E-08	9.39E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1144	420427.6	3733708	6.85E-06	3.13E-05	6.84E-08	9.38E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1145	420437.3	3733706	6.85E-06	3.13E-05	6.84E-08	9.38E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1146	420446.9	3733704	6.85E-06	3.13E-05	6.85E-08	9.39E-07	4.28E-06	1.02E-08	5.76E-07	1.97E-06	2.37E-09
1147	420456.5	3733702	6.85E-06	3.13E-05	6.85E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1148	420466.1	3733701	6.86E-06	3.14E-05	6.86E-08	9.40E-07	4.29E-06	1.02E-08	5.77E-07	1.97E-06	2.37E-09
1149	420475.7	3733699	6.87E-06	3.14E-05	6.87E-08	9.42E-07	4.30E-06	1.02E-08	5.78E-07	1.97E-06	2.37E-09
1150	420485.4	3733697	6.88E-06	3.15E-05	6.88E-08	9.43E-07	4.30E-06	1.02E-08	5.79E-07	1.98E-06	2.38E-09
1151	420495	3733696	6.90E-06	3.15E-05	6.90E-08	9.46E-07	4.31E-06	1.03E-08	5.80E-07	1.98E-06	2.38E-09
1152	420504.6	3733694	6.91E-06	3.16E-05	6.91E-08	9.48E-07	4.32E-06	1.03E-08	5.82E-07	1.99E-06	2.39E-09
1153	420514.2	3733692	6.93E-06	3.17E-05	6.93E-08	9.50E-07	4.33E-06	1.03E-08	5.83E-07	1.99E-06	2.40E-09
1154	420523.9	3733690	6.95E-06	3.18E-05	6.95E-08	9.53E-07	4.34E-06	1.03E-08	5.85E-07	2.00E-06	2.40E-09
1155	420533.5	3733689	6.97E-06	3.19E-05	6.97E-08	9.56E-07	4.36E-06	1.04E-08	5.87E-07	2.00E-06	2.41E-09
1156	420543.1	3733687	7.00E-06	3.20E-05	6.99E-08	9.59E-07	4.37E-06	1.04E-08	5.89E-07	2.01E-06	2.42E-09
1157	420552.7	3733685	7.02E-06	3.21E-05	7.02E-08	9.63E-07	4.39E-06	1.05E-08	5.91E-07	2.02E-06	2.43E-09
1158	420562.3	3733684	7.05E-06	3.22E-05	7.05E-08	9.66E-07	4.41E-06	1.05E-08	5.93E-07	2.03E-06	2.44E-09
1159	420572	3733682	7.07E-06	3.23E-05	7.07E-08	9.69E-07	4.42E-06	1.05E-08	5.95E-07	2.03E-06	2.44E-09
1160	420581.6	3733680	7.10E-06	3.25E-05	7.10E-08	9.74E-07	4.44E-06	1.06E-08	5.98E-07	2.04E-06	2.45E-09
1161	420591.2	3733678	7.13E-06	3.26E-05	7.13E-08	9.78E-07	4.46E-06	1.06E-08	6.00E-07	2.05E-06	2.46E-09
1162	420600.8	3733677	7.16E-06	3.27E-05	7.15E-08	9.81E-07	4.48E-06	1.07E-08	6.02E-07	2.06E-06	2.47E-09
1163	420610.5	3733675	7.19E-06	3.29E-05	7.18E-08	9.85E-07	4.49E-06	1.07E-08	6.05E-07	2.06E-06	2.48E-09
1164	420620.1	3733673	7.21E-06	3.30E-05	7.21E-08	9.89E-07	4.51E-06	1.07E-08	6.07E-07	2.07E-06	2.49E-09
1165	420629.7	3733671	7.24E-06	3.31E-05	7.24E-08	9.93E-07	4.53E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
1166	420639.3	3733670	7.26E-06	3.32E-05	7.26E-08	9.96E-07	4.54E-06	1.08E-08	6.11E-07	2.09E-06	2.51E-09
1167	420677.8	3733663	7.36E-06	3.37E-05	7.36E-08	1.01E-06	4.60E-06	1.10E-08	6.19E-07	2.12E-06	2.54E-09
1168	420687.4	3733661	7.38E-06	3.37E-05	7.38E-08	1.01E-06	4.61E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1169	420697.1	3733659	7.40E-06	3.38E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1170	420706.7	3733658	7.42E-06	3.39E-05	7.41E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1171	420716.3	3733656	7.44E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
1172	420725.9	3733654	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
1173	420735.5	3733653	7.46E-06	3.41E-05	7.46E-08	1.02E-06	4.67E-06	1.11E-08	6.28E-07	2.14E-06	2.58E-09
1174	420745.2	3733651	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1175	420754.8	3733649	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1176	420764.4	3733647	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09

1177	420774	3733646	7.50E-06	3.43E-05	7.49E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.15E-06	2.59E-09
1178	420783.7	3733644	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1179	420793.3	3733642	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1180	420802.9	3733641	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1181	420812.5	3733639	7.50E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.16E-06	2.59E-09
1182	420822.1	3733637	7.50E-06	3.43E-05	7.49E-08	1.03E-06	4.69E-06	1.12E-08	6.31E-07	2.15E-06	2.59E-09
1183	420831.8	3733635	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
1184	420841.4	3733634	7.48E-06	3.42E-05	7.48E-08	1.03E-06	4.68E-06	1.11E-08	6.29E-07	2.15E-06	2.59E-09
1185	420851	3733632	7.47E-06	3.42E-05	7.47E-08	1.02E-06	4.67E-06	1.11E-08	6.29E-07	2.15E-06	2.58E-09
1186	420860.6	3733630	7.46E-06	3.41E-05	7.46E-08	1.02E-06	4.67E-06	1.11E-08	6.28E-07	2.14E-06	2.58E-09
1187	420870.3	3733628	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
1188	420879.9	3733627	7.44E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
1189	420889.5	3733625	7.42E-06	3.39E-05	7.42E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1190	420899.1	3733623	7.40E-06	3.39E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1191	420908.7	3733622	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1192	420020.7	3734289	9.54E-06	4.36E-05	9.54E-08	1.31E-06	5.96E-06	1.42E-08	8.03E-07	2.74E-06	3.30E-09
1193	420020.7	3734298	9.49E-06	4.34E-05	9.48E-08	1.30E-06	5.93E-06	1.41E-08	7.98E-07	2.73E-06	3.28E-09
1194	420020.6	3734308	9.43E-06	4.31E-05	9.43E-08	1.29E-06	5.90E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1195	420020.6	3734318	9.38E-06	4.29E-05	9.38E-08	1.29E-06	5.87E-06	1.40E-08	7.89E-07	2.70E-06	3.24E-09
1196	420020.6	3734328	9.34E-06	4.27E-05	9.33E-08	1.28E-06	5.84E-06	1.39E-08	7.85E-07	2.68E-06	3.23E-09
1197	420020.5	3734338	9.29E-06	4.25E-05	9.28E-08	1.27E-06	5.81E-06	1.38E-08	7.81E-07	2.67E-06	3.21E-09
1198	420020.5	3734348	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
1199	420020.4	3734358	9.19E-06	4.20E-05	9.19E-08	1.26E-06	5.75E-06	1.37E-08	7.74E-07	2.64E-06	3.18E-09
1200	420020.4	3734367	9.15E-06	4.18E-05	9.14E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
1201	420655.7	3734210	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.15E-07	6.47E-06	2.21E-05	2.66E-08
1202	420722.2	3734190	7.41E-05	3.39E-04	7.40E-07	1.02E-05	4.63E-05	1.10E-07	6.23E-06	2.13E-05	2.56E-08
1203	420646.5	3734189	6.43E-05	2.94E-04	6.43E-07	8.82E-06	4.02E-05	9.57E-08	5.41E-06	1.85E-05	2.22E-08
1204	420656.3	3734150	4.89E-05	2.24E-04	4.89E-07	6.71E-06	3.06E-05	7.29E-08	4.12E-06	1.41E-05	1.69E-08
1205	420646.9	3734149	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.66E-08
1206	420685.6	3734070	3.14E-05	1.44E-04	3.14E-07	4.31E-06	1.97E-05	4.68E-08	2.65E-06	9.04E-06	1.09E-08
1207	420648.9	3733950	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
1208	420668.3	3733910	1.49E-05	6.82E-05	1.49E-07	2.04E-06	9.32E-06	2.22E-08	1.25E-06	4.29E-06	5.15E-09
1209	420658.8	3733910	1.48E-05	6.75E-05	1.48E-07	2.02E-06	9.23E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
1210	420649.3	3733910	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
1211	420687.6	3733870	1.32E-05	6.02E-05	1.32E-07	1.81E-06	8.24E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
1212	420678.1	3733870	1.30E-05	5.97E-05	1.30E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
1213	420668.7	3733870	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.72E-06	4.47E-09
1214	420659.2	3733870	1.28E-05	5.85E-05	1.28E-07	1.76E-06	8.01E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
1215	420649.7	3733870	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
1216	420706.9	3733830	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
1217	420697.5	3733830	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.79E-07	3.34E-06	4.02E-09
1218	420688	3733830	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
1219	420678.5	3733830	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.16E-06	1.70E-08	9.63E-07	3.29E-06	3.95E-09
1220	420669.1	3733830	1.13E-05	5.19E-05	1.13E-07	1.56E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
1221	420659.6	3733830	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
1222	420650.1	3733830	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
1223	420726.3	3733790	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
1224	420716.8	3733790	1.05E-05	4.79E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
1225	420707.4	3733790	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.59E-09
1226	420697.9	3733790	1.03E-05	4.72E-05	1.03E-07	1.41E-06	6.45E-06	1.54E-08	8.68E-07	2.96E-06	3.56E-09
1227	420688.4	3733790	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
1228	420678.9	3733790	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.35E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
1229	420669.5	3733790	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1230	420660	3733790	9.98E-06	4.56E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
1231	420650.5	3733790	9.90E-06	4.52E-05	9.89E-08	1.36E-06	6.19E-06	1.47E-08	8.32E-07	2.84E-06	3.42E-09
1232	420726.7	3733750	9.42E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1233	420717.2	3733750	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
1234	420707.8	3733750	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
1235	420698.3	3733750	9.23E-06	4.22E-05	9.23E-08	1.27E-06	5.77E-06	1.37E-08	7.77E-07	2.65E-06	3.19E-09

1236	420688.8	3733750	9.16E-06	4.19E-05	9.16E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.17E-09
1237	420679.4	3733750	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
1238	420669.9	3733750	9.02E-06	4.13E-05	9.02E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
1239	420660.4	3733750	8.95E-06	4.09E-05	8.94E-08	1.23E-06	5.60E-06	1.33E-08	7.53E-07	2.57E-06	3.09E-09
1240	420650.9	3733750	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
1241	420727.1	3733710	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.32E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
1242	420717.6	3733710	8.45E-06	3.86E-05	8.45E-08	1.16E-06	5.28E-06	1.26E-08	7.11E-07	2.43E-06	2.92E-09
1243	420708.2	3733710	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1244	420698.7	3733710	8.34E-06	3.81E-05	8.33E-08	1.14E-06	5.21E-06	1.24E-08	7.01E-07	2.40E-06	2.88E-09
1245	420689.2	3733710	8.28E-06	3.78E-05	8.27E-08	1.13E-06	5.17E-06	1.23E-08	6.96E-07	2.38E-06	2.86E-09
1246	420679.8	3733710	8.22E-06	3.76E-05	8.22E-08	1.13E-06	5.14E-06	1.22E-08	6.92E-07	2.36E-06	2.84E-09
1247	420670.3	3733710	8.16E-06	3.73E-05	8.16E-08	1.12E-06	5.10E-06	1.22E-08	6.87E-07	2.35E-06	2.82E-09
1248	420727.5	3733670	7.73E-06	3.53E-05	7.73E-08	1.06E-06	4.83E-06	1.15E-08	6.50E-07	2.22E-06	2.67E-09
1249	420718	3733670	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
1250	420708.6	3733670	7.64E-06	3.49E-05	7.63E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
1251	420699.1	3733670	7.59E-06	3.47E-05	7.59E-08	1.04E-06	4.75E-06	1.13E-08	6.39E-07	2.18E-06	2.62E-09
1252	420689.6	3733670	7.54E-06	3.45E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.17E-06	2.60E-09
1253	420614.8	3734379	4.73E-04	2.16E-03	4.73E-06	6.49E-05	2.96E-04	7.05E-07	3.98E-05	1.36E-04	1.64E-07
1254	420615	3734396	5.79E-04	2.65E-03	5.79E-06	7.94E-05	3.62E-04	8.62E-07	4.87E-05	1.66E-04	2.00E-07
1255	420604.8	3734379	4.23E-04	1.93E-03	4.22E-06	5.79E-05	2.64E-04	6.29E-07	3.56E-05	1.21E-04	1.46E-07
1256	420605	3734396	5.03E-04	2.30E-03	5.03E-06	6.89E-05	3.14E-04	7.48E-07	4.23E-05	1.44E-04	1.74E-07
1257	420594.8	3734379	3.77E-04	1.73E-03	3.77E-06	5.17E-05	2.36E-04	5.62E-07	3.18E-05	1.08E-04	1.30E-07
1258	420595	3734396	4.38E-04	2.00E-03	4.37E-06	6.00E-05	2.74E-04	6.51E-07	3.68E-05	1.26E-04	1.51E-07
1259	420609.4	3734324	2.28E-04	1.04E-03	2.28E-06	3.13E-05	1.43E-04	3.40E-07	1.92E-05	6.56E-05	7.89E-08
1260	420584.8	3734379	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.02E-07	2.84E-05	9.68E-05	1.16E-07
1261	420585	3734396	3.82E-04	1.75E-03	3.82E-06	5.24E-05	2.39E-04	5.69E-07	3.21E-05	1.10E-04	1.32E-07
1262	420589.3	3734334	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.61E-05	7.94E-08
1263	420609.5	3734314	2.02E-04	9.25E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.99E-08
1264	420574.8	3734379	3.01E-04	1.38E-03	3.01E-06	4.13E-05	1.88E-04	4.48E-07	2.53E-05	8.65E-05	1.04E-07
1265	420575	3734396	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.09E-04	4.99E-07	2.82E-05	9.62E-05	1.16E-07
1266	420609.6	3734304	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.16E-05	6.21E-08
1267	420564.8	3734379	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.01E-07	2.27E-05	7.74E-05	9.31E-08
1268	420565	3734397	2.95E-04	1.35E-03	2.95E-06	4.04E-05	1.84E-04	4.39E-07	2.48E-05	8.47E-05	1.02E-07
1269	420569.3	3734335	2.02E-04	9.22E-04	2.02E-06	2.76E-05	1.26E-04	3.00E-07	1.70E-05	5.79E-05	6.97E-08
1270	420609.7	3734294	1.60E-04	7.33E-04	1.60E-06	2.20E-05	1.00E-04	2.39E-07	1.35E-05	4.60E-05	5.54E-08
1271	420554.8	3734379	2.41E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.34E-08
1272	420555	3734397	2.60E-04	1.19E-03	2.60E-06	3.57E-05	1.63E-04	3.87E-07	2.19E-05	7.48E-05	8.99E-08
1273	420570.6	3734307	1.58E-04	7.20E-04	1.57E-06	2.16E-05	9.85E-05	2.35E-07	1.33E-05	4.53E-05	5.45E-08
1274	420589.8	3734292	1.47E-04	6.74E-04	1.47E-06	2.02E-05	9.22E-05	2.19E-07	1.24E-05	4.24E-05	5.09E-08
1275	420544.8	3734379	2.16E-04	9.90E-04	2.16E-06	2.97E-05	1.35E-04	3.22E-07	1.82E-05	6.22E-05	7.48E-08
1276	420545	3734397	2.31E-04	1.05E-03	2.31E-06	3.16E-05	1.44E-04	3.43E-07	1.94E-05	6.63E-05	7.97E-08
1277	420550.1	3734308	1.44E-04	6.57E-04	1.44E-06	1.97E-05	8.99E-05	2.14E-07	1.21E-05	4.13E-05	4.97E-08
1278	420524.8	3734380	1.75E-04	8.02E-04	1.75E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.04E-05	6.06E-08
1279	420525	3734397	1.83E-04	8.37E-04	1.83E-06	2.51E-05	1.14E-04	2.73E-07	1.54E-05	5.26E-05	6.33E-08
1280	420529.8	3734309	1.29E-04	5.90E-04	1.29E-06	1.77E-05	8.07E-05	1.92E-07	1.09E-05	3.71E-05	4.46E-08
1281	420504.8	3734380	1.43E-04	6.56E-04	1.43E-06	1.97E-05	8.97E-05	2.14E-07	1.21E-05	4.12E-05	4.96E-08
1282	420505	3734397	1.47E-04	6.74E-04	1.47E-06	2.02E-05	9.22E-05	2.20E-07	1.24E-05	4.24E-05	5.10E-08
1283	420577.3	3734238	8.46E-05	3.87E-04	8.46E-07	1.16E-05	5.29E-05	1.26E-07	7.12E-06	2.43E-05	2.92E-08
1284	420484.8	3734380	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
1285	420485	3734397	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.53E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
1286	420540	3734233	7.53E-05	3.44E-04	7.53E-07	1.03E-05	4.71E-05	1.12E-07	6.34E-06	2.17E-05	2.60E-08
1287	420464.8	3734380	9.87E-05	4.51E-04	9.86E-07	1.35E-05	6.17E-05	1.47E-07	8.30E-06	2.84E-05	3.41E-08
1288	420465	3734398	9.95E-05	4.55E-04	9.94E-07	1.36E-05	6.22E-05	1.48E-07	8.37E-06	2.86E-05	3.44E-08
1289	420470.6	3734308	8.87E-05	4.06E-04	8.87E-07	1.22E-05	5.55E-05	1.32E-07	7.46E-06	2.55E-05	3.07E-08
1290	420527	3734218	6.64E-05	3.04E-04	6.64E-07	9.10E-06	4.15E-05	9.89E-08	5.59E-06	1.91E-05	2.30E-08
1291	420444.8	3734381	8.30E-05	3.79E-04	8.30E-07	1.14E-05	5.19E-05	1.24E-07	6.98E-06	2.38E-05	2.87E-08
1292	420445	3734398	8.32E-05	3.80E-04	8.31E-07	1.14E-05	5.20E-05	1.24E-07	7.00E-06	2.39E-05	2.87E-08
1293	420450.4	3734309	7.80E-05	3.57E-04	7.80E-07	1.07E-05	4.88E-05	1.16E-07	6.56E-06	2.24E-05	2.70E-08
1294	420485.7	3734222	6.15E-05	2.81E-04	6.15E-07	8.44E-06	3.85E-05	9.16E-08	5.18E-06	1.77E-05	2.13E-08

1295	420468.4	3734216	5.64E-05	2.58E-04	5.63E-07	7.73E-06	3.52E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
1296	420607.9	3734146	4.42E-05	2.02E-04	4.42E-07	6.06E-06	2.76E-05	6.58E-08	3.72E-06	1.27E-05	1.53E-08
1297	420404.8	3734381	6.03E-05	2.76E-04	6.03E-07	8.27E-06	3.77E-05	8.98E-08	5.08E-06	1.73E-05	2.09E-08
1298	420405	3734398	6.00E-05	2.74E-04	6.00E-07	8.23E-06	3.75E-05	8.94E-08	5.05E-06	1.73E-05	2.07E-08
1299	420397.3	3734342	5.70E-05	2.61E-04	5.70E-07	7.82E-06	3.57E-05	8.49E-08	4.80E-06	1.64E-05	1.97E-08
1300	420403.6	3734326	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
1301	420410	3734310	6.03E-05	2.75E-04	6.02E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
1302	420451.1	3734209	5.17E-05	2.36E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
1303	420457.4	3734194	4.85E-05	2.22E-04	4.84E-07	6.65E-06	3.03E-05	7.22E-08	4.08E-06	1.39E-05	1.68E-08
1304	420600.6	3734129	3.93E-05	1.80E-04	3.92E-07	5.38E-06	2.45E-05	5.85E-08	3.30E-06	1.13E-05	1.36E-08
1305	420384.8	3734381	5.21E-05	2.38E-04	5.21E-07	7.14E-06	3.26E-05	7.76E-08	4.38E-06	1.50E-05	1.80E-08
1306	420385	3734399	5.17E-05	2.37E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
1307	420389.8	3734311	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
1308	420396.1	3734296	5.40E-05	2.47E-04	5.40E-07	7.41E-06	3.38E-05	8.04E-08	4.54E-06	1.55E-05	1.87E-08
1309	420415	3734249	5.33E-05	2.43E-04	5.32E-07	7.30E-06	3.33E-05	7.93E-08	4.48E-06	1.53E-05	1.84E-08
1310	420421.3	3734234	5.18E-05	2.37E-04	5.18E-07	7.10E-06	3.24E-05	7.71E-08	4.36E-06	1.49E-05	1.79E-08
1311	420427.6	3734218	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
1312	420454.2	3734169	4.20E-05	1.92E-04	4.19E-07	5.75E-06	2.62E-05	6.25E-08	3.53E-06	1.21E-05	1.45E-08
1313	420577.9	3734118	3.58E-05	1.64E-04	3.58E-07	4.91E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
1314	420364.8	3734382	4.54E-05	2.07E-04	4.53E-07	6.22E-06	2.84E-05	6.75E-08	3.82E-06	1.30E-05	1.57E-08
1315	420365	3734399	4.50E-05	2.06E-04	4.49E-07	6.16E-06	2.81E-05	6.69E-08	3.78E-06	1.29E-05	1.55E-08
1316	420357.6	3734341	4.38E-05	2.00E-04	4.38E-07	6.00E-06	2.74E-05	6.52E-08	3.69E-06	1.26E-05	1.51E-08
1317	420364.1	3734325	4.55E-05	2.08E-04	4.55E-07	6.24E-06	2.85E-05	6.78E-08	3.83E-06	1.31E-05	1.57E-08
1318	420370.6	3734309	4.70E-05	2.15E-04	4.70E-07	6.45E-06	2.94E-05	7.00E-08	3.96E-06	1.35E-05	1.62E-08
1319	420409.6	3734213	4.58E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.32E-05	1.58E-08
1320	420416.1	3734198	4.38E-05	2.00E-04	4.38E-07	6.01E-06	2.74E-05	6.53E-08	3.69E-06	1.26E-05	1.52E-08
1321	420422.6	3734182	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
1322	420464.2	3734145	3.74E-05	1.71E-04	3.74E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1323	420480.2	3734138	3.68E-05	1.68E-04	3.68E-07	5.04E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
1324	420575.9	3734099	3.20E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.18E-06	1.10E-08
1325	420344.8	3734382	3.97E-05	1.82E-04	3.97E-07	5.45E-06	2.48E-05	5.92E-08	3.34E-06	1.14E-05	1.37E-08
1326	420345	3734399	3.94E-05	1.80E-04	3.93E-07	5.40E-06	2.46E-05	5.86E-08	3.31E-06	1.13E-05	1.36E-08
1327	420317.5	3734342	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
1328	420323.9	3734326	3.57E-05	1.63E-04	3.56E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.02E-05	1.23E-08
1329	420330.3	3734311	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.51E-08	3.11E-06	1.06E-05	1.28E-08
1330	420388	3734169	3.58E-05	1.63E-04	3.57E-07	4.90E-06	2.24E-05	5.32E-08	3.01E-06	1.03E-05	1.24E-08
1331	420400.8	3734137	3.22E-05	1.47E-04	3.22E-07	4.42E-06	2.02E-05	4.80E-08	2.71E-06	9.26E-06	1.11E-08
1332	420411.8	3734126	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.63E-06	8.99E-06	1.08E-08
1333	420443.3	3734113	3.07E-05	1.41E-04	3.07E-07	4.21E-06	1.92E-05	4.57E-08	2.59E-06	8.83E-06	1.06E-08
1334	420459.1	3734107	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
1335	420490.6	3734094	2.90E-05	1.33E-04	2.90E-07	3.97E-06	1.81E-05	4.32E-08	2.44E-06	8.33E-06	1.00E-08
1336	420304.8	3734382	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.62E-06	8.94E-06	1.07E-08
1337	420305	3734400	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
1338	420277.7	3734342	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.45E-09
1339	420284.3	3734326	2.85E-05	1.30E-04	2.85E-07	3.91E-06	1.78E-05	4.24E-08	2.40E-06	8.19E-06	9.85E-09
1340	420330	3734214	3.32E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.55E-06	1.15E-08
1341	420336.5	3734197	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.46E-06	1.14E-08
1342	420343	3734181	3.23E-05	1.48E-04	3.23E-07	4.43E-06	2.02E-05	4.81E-08	2.72E-06	9.28E-06	1.12E-08
1343	420362.6	3734133	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.37E-06	1.01E-08
1344	420369.1	3734117	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.97E-06	9.59E-09
1345	420415.8	3734085	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.43E-06	8.94E-09
1346	420431.8	3734078	2.55E-05	1.16E-04	2.55E-07	3.49E-06	1.59E-05	3.79E-08	2.14E-06	7.32E-06	8.80E-09
1347	420463.9	3734065	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.64E-08	2.06E-06	7.03E-06	8.46E-09
1348	420520.1	3734042	2.26E-05	1.03E-04	2.26E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.80E-09
1349	420536.2	3734035	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
1350	420552.2	3734029	2.17E-05	9.91E-05	2.17E-07	2.97E-06	1.36E-05	3.23E-08	1.82E-06	6.23E-06	7.49E-09
1351	420568.3	3734022	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.18E-08	1.79E-06	6.13E-06	7.37E-09
1352	420584.3	3734016	2.10E-05	9.62E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.27E-09
1353	420264.8	3734383	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.09E-06	7.15E-06	8.60E-09

1354	420265	3734400	2.46E-05	1.13E-04	2.46E-07	3.38E-06	1.54E-05	3.67E-08	2.07E-06	7.08E-06	8.52E-09
1355	420237.6	3734343	2.22E-05	1.01E-04	2.22E-07	3.04E-06	1.39E-05	3.30E-08	1.87E-06	6.37E-06	7.66E-09
1356	420244	3734327	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.98E-09
1357	420250.5	3734311	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.31E-09
1358	420295.7	3734200	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.08E-06	9.72E-09
1359	420302.2	3734184	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.04E-06	9.67E-09
1360	420308.6	3734168	2.77E-05	1.26E-04	2.76E-07	3.79E-06	1.73E-05	4.12E-08	2.33E-06	7.95E-06	9.56E-09
1361	420321.5	3734136	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.13E-09
1362	420328	3734120	2.56E-05	1.17E-04	2.55E-07	3.50E-06	1.60E-05	3.80E-08	2.15E-06	7.34E-06	8.83E-09
1363	420334.4	3734105	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.50E-09
1364	420340.9	3734089	2.36E-05	1.08E-04	2.35E-07	3.23E-06	1.47E-05	3.51E-08	1.98E-06	6.77E-06	8.14E-09
1365	420355.3	3734070	2.24E-05	1.03E-04	2.24E-07	3.08E-06	1.40E-05	3.34E-08	1.89E-06	6.45E-06	7.76E-09
1366	420442.6	3734034	2.08E-05	9.51E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
1367	420458.4	3734027	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1368	420490.2	3734014	1.95E-05	8.90E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.59E-06	6.73E-09
1369	420521.9	3734001	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
1370	420537.8	3733995	1.84E-05	8.40E-05	1.84E-07	2.52E-06	1.15E-05	2.74E-08	1.55E-06	5.28E-06	6.35E-09
1371	420553.7	3733988	1.81E-05	8.27E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
1372	420569.6	3733982	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
1373	420224.8	3734383	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.02E-08	1.71E-06	5.84E-06	7.02E-09
1374	420225	3734401	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
1375	420197.5	3734344	1.83E-05	8.37E-05	1.83E-07	2.51E-06	1.14E-05	2.73E-08	1.54E-06	5.26E-06	6.33E-09
1376	420203.9	3734328	1.90E-05	8.70E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.57E-09
1377	420210.3	3734312	1.98E-05	9.04E-05	1.98E-07	2.71E-06	1.24E-05	2.94E-08	1.66E-06	5.68E-06	6.83E-09
1378	420267.8	3734170	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.50E-05	3.58E-08	2.02E-06	6.91E-06	8.32E-09
1379	420280.6	3734139	2.36E-05	1.08E-04	2.36E-07	3.23E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.15E-09
1380	420287	3734123	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.44E-08	1.95E-06	6.65E-06	7.99E-09
1381	420293.4	3734108	2.25E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.79E-09
1382	420299.8	3734092	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.28E-06	7.56E-09
1383	420306.2	3734076	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.07E-06	7.29E-09
1384	420312.6	3734060	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
1385	420366.2	3734025	1.90E-05	8.69E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
1386	420421.3	3734003	1.79E-05	8.18E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.51E-06	5.14E-06	6.18E-09
1387	420437	3733996	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
1388	420468.4	3733983	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.81E-09
1389	420484.2	3733977	1.65E-05	7.53E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.73E-06	5.69E-09
1390	420515.6	3733964	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.94E-06	2.37E-08	1.34E-06	4.57E-06	5.49E-09
1391	420531.4	3733958	1.57E-05	7.16E-05	1.56E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
1392	420547.1	3733951	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1393	420633.6	3733916	1.47E-05	6.72E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.08E-09
1394	420184.8	3734384	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.83E-09
1395	420185	3734401	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.80E-06	5.78E-09
1396	420157.7	3734344	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
1397	420164.2	3734328	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
1398	420170.6	3734312	1.65E-05	7.57E-05	1.65E-07	2.27E-06	1.03E-05	2.46E-08	1.39E-06	4.76E-06	5.72E-09
1399	420216.1	3734200	2.04E-05	9.32E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.86E-06	7.04E-09
1400	420222.6	3734184	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
1401	420242	3734136	2.08E-05	9.49E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
1402	420261.5	3734088	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
1403	420268	3734072	1.93E-05	8.80E-05	1.92E-07	2.64E-06	1.20E-05	2.87E-08	1.62E-06	5.53E-06	6.65E-09
1404	420274.5	3734056	1.87E-05	8.53E-05	1.86E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.36E-06	6.45E-09
1405	420287.5	3734024	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.97E-06	5.97E-09
1406	420298.7	3734013	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
1407	420338.6	3733997	1.66E-05	7.59E-05	1.66E-07	2.28E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.74E-09
1408	420354.5	3733990	1.64E-05	7.49E-05	1.64E-07	2.25E-06	1.02E-05	2.44E-08	1.38E-06	4.71E-06	5.66E-09
1409	420394.4	3733974	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.80E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
1410	420410.4	3733967	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.61E-06	2.29E-08	1.29E-06	4.42E-06	5.31E-09
1411	420442.3	3733954	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.19E-08	1.24E-06	4.24E-06	5.10E-09
1412	420522.1	3733922	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09

1413	420538	3733915	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
1414	420633.8	3733876	1.28E-05	5.83E-05	1.28E-07	1.75E-06	7.98E-06	1.90E-08	1.07E-06	3.67E-06	4.41E-09
1415	420144.8	3734384	1.42E-05	6.51E-05	1.42E-07	1.95E-06	8.90E-06	2.12E-08	1.20E-06	4.09E-06	4.92E-09
1416	420145	3734402	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
1417	420117.6	3734344	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
1418	420124	3734329	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
1419	420130.4	3734313	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.75E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
1420	420175.5	3734202	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
1421	420181.9	3734186	1.77E-05	8.10E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
1422	420188.4	3734170	1.80E-05	8.22E-05	1.80E-07	2.46E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.21E-09
1423	420201.2	3734139	1.82E-05	8.34E-05	1.82E-07	2.50E-06	1.14E-05	2.72E-08	1.53E-06	5.24E-06	6.30E-09
1424	420207.7	3734123	1.82E-05	8.33E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.24E-06	6.30E-09
1425	420214.1	3734107	1.81E-05	8.28E-05	1.81E-07	2.48E-06	1.13E-05	2.70E-08	1.52E-06	5.21E-06	6.26E-09
1426	420220.6	3734091	1.79E-05	8.19E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.15E-06	6.19E-09
1427	420227	3734075	1.76E-05	8.05E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
1428	420233.4	3734059	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.96E-09
1429	420270.3	3733985	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.15E-09
1430	420286.1	3733978	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
1431	420317.8	3733965	1.46E-05	6.66E-05	1.46E-07	2.00E-06	9.11E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
1432	420333.6	3733959	1.44E-05	6.58E-05	1.44E-07	1.97E-06	8.99E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
1433	420420.7	3733923	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
1434	420436.5	3733917	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
1435	420452.3	3733910	1.25E-05	5.72E-05	1.25E-07	1.71E-06	7.82E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
1436	420468.1	3733904	1.23E-05	5.62E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.03E-06	3.53E-06	4.25E-09
1437	420484	3733897	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
1438	420499.8	3733891	1.19E-05	5.46E-05	1.19E-07	1.64E-06	7.47E-06	1.78E-08	1.00E-06	3.43E-06	4.13E-09
1439	420515.6	3733885	1.18E-05	5.40E-05	1.18E-07	1.62E-06	7.38E-06	1.76E-08	9.93E-07	3.39E-06	4.08E-09
1440	420602.7	3733849	1.13E-05	5.17E-05	1.13E-07	1.55E-06	7.07E-06	1.68E-08	9.52E-07	3.25E-06	3.91E-09
1441	420104.7	3734376	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
1442	420104.9	3734393	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
1443	420077.7	3734345	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
1444	420084.2	3734329	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.27E-06	1.73E-08	9.78E-07	3.34E-06	4.02E-09
1445	420090.8	3734312	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
1446	420146.1	3734176	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1447	420159.2	3734144	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
1448	420165.7	3734128	1.61E-05	7.34E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.55E-09
1449	420172.2	3734112	1.61E-05	7.36E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.35E-06	4.63E-06	5.56E-09
1450	420178.7	3734096	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.62E-06	5.55E-09
1451	420185.2	3734080	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.98E-06	2.38E-08	1.34E-06	4.59E-06	5.51E-09
1452	420191.7	3734064	1.58E-05	7.21E-05	1.58E-07	2.16E-06	9.86E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
1453	420204.8	3734032	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.51E-06	2.26E-08	1.28E-06	4.37E-06	5.25E-09
1454	420211.3	3734016	1.48E-05	6.78E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
1455	420217.8	3734000	1.44E-05	6.59E-05	1.44E-07	1.98E-06	9.02E-06	2.15E-08	1.21E-06	4.14E-06	4.98E-09
1456	420242.1	3733957	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1457	420346.2	3733914	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
1458	420362.2	3733907	1.21E-05	5.52E-05	1.21E-07	1.66E-06	7.55E-06	1.80E-08	1.02E-06	3.47E-06	4.17E-09
1459	420394.3	3733894	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
1460	420410.3	3733888	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
1461	420426.3	3733881	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.41E-07	3.22E-06	3.87E-09
1462	420442.3	3733875	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.88E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
1463	420458.3	3733868	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
1464	420474.3	3733862	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
1465	420490.4	3733855	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
1466	420506.4	3733848	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.78E-07	3.00E-06	3.60E-09
1467	420586.5	3733816	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1468	420602.5	3733809	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.46E-09
1469	420634.5	3733796	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
1470	420064.7	3734377	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.60E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
1471	420064.9	3734394	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09

1472	420031.2	3734361	9.50E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
1473	420037.6	3734345	9.79E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
1474	420044.1	3734329	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.31E-06	1.50E-08	8.49E-07	2.90E-06	3.49E-09
1475	420050.6	3734313	1.04E-05	4.75E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.59E-09
1476	420095.8	3734202	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.71E-06	4.46E-09
1477	420102.3	3734186	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
1478	420108.8	3734170	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.89E-06	4.67E-09
1479	420121.7	3734138	1.40E-05	6.41E-05	1.40E-07	1.92E-06	8.76E-06	2.09E-08	1.18E-06	4.03E-06	4.84E-09
1480	420128.2	3734122	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
1481	420147.6	3734075	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.95E-06	2.13E-08	1.20E-06	4.11E-06	4.95E-09
1482	420154	3734059	1.42E-05	6.50E-05	1.42E-07	1.95E-06	8.89E-06	2.12E-08	1.20E-06	4.09E-06	4.92E-09
1483	420167	3734027	1.39E-05	6.35E-05	1.39E-07	1.90E-06	8.68E-06	2.07E-08	1.17E-06	3.99E-06	4.80E-09
1484	420173.4	3734011	1.36E-05	6.23E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
1485	420179.9	3733995	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
1486	420213.7	3733928	1.18E-05	5.42E-05	1.18E-07	1.62E-06	7.41E-06	1.76E-08	9.97E-07	3.40E-06	4.09E-09
1487	420229.6	3733922	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
1488	420269.4	3733906	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.76E-07	3.33E-06	4.01E-09
1489	420285.3	3733899	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.16E-06	1.71E-08	9.64E-07	3.29E-06	3.96E-09
1490	420317.1	3733886	1.11E-05	5.08E-05	1.11E-07	1.52E-06	6.95E-06	1.65E-08	9.35E-07	3.19E-06	3.84E-09
1491	420333	3733880	1.09E-05	4.99E-05	1.09E-07	1.50E-06	6.82E-06	1.62E-08	9.18E-07	3.14E-06	3.77E-09
1492	420364.8	3733867	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
1493	420396.6	3733854	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
1494	420412.5	3733847	9.97E-06	4.56E-05	9.96E-08	1.37E-06	6.23E-06	1.48E-08	8.39E-07	2.86E-06	3.44E-09
1495	420428.4	3733841	9.81E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
1496	420444.3	3733834	9.67E-06	4.42E-05	9.66E-08	1.33E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
1497	420460.2	3733828	9.54E-06	4.36E-05	9.54E-08	1.31E-06	5.96E-06	1.42E-08	8.03E-07	2.74E-06	3.30E-09
1498	420476.1	3733821	9.43E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1499	420492	3733815	9.33E-06	4.27E-05	9.33E-08	1.28E-06	5.83E-06	1.39E-08	7.85E-07	2.68E-06	3.22E-09
1500	420571.5	3733782	9.04E-06	4.13E-05	9.04E-08	1.24E-06	5.65E-06	1.35E-08	7.61E-07	2.60E-06	3.12E-09
1501	420587.4	3733776	9.00E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
1502	420603.2	3733769	8.97E-06	4.10E-05	8.97E-08	1.23E-06	5.61E-06	1.34E-08	7.55E-07	2.58E-06	3.10E-09
1503	420024.7	3734377	9.23E-06	4.22E-05	9.23E-08	1.27E-06	5.77E-06	1.37E-08	7.77E-07	2.65E-06	3.19E-09
1504	420024.9	3734394	9.16E-06	4.19E-05	9.15E-08	1.26E-06	5.73E-06	1.36E-08	7.71E-07	2.63E-06	3.16E-09
1505	419988	3734370	8.26E-06	3.78E-05	8.26E-08	1.13E-06	5.17E-06	1.23E-08	6.95E-07	2.37E-06	2.86E-09
1506	419994.5	3734353	8.49E-06	3.88E-05	8.49E-08	1.16E-06	5.31E-06	1.26E-08	7.15E-07	2.44E-06	2.94E-09
1507	420001	3734337	8.73E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
1508	420007.6	3734321	8.99E-06	4.11E-05	8.98E-08	1.23E-06	5.62E-06	1.34E-08	7.56E-07	2.58E-06	3.11E-09
1509	420059.8	3734193	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
1510	420066.4	3734177	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
1511	420079.4	3734144	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
1512	420086	3734128	1.24E-05	5.69E-05	1.24E-07	1.71E-06	7.78E-06	1.85E-08	1.05E-06	3.58E-06	4.30E-09
1513	420092.5	3734112	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
1514	420099	3734096	1.28E-05	5.83E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.41E-09
1515	420105.6	3734080	1.28E-05	5.86E-05	1.28E-07	1.76E-06	8.02E-06	1.91E-08	1.08E-06	3.69E-06	4.43E-09
1516	420112.1	3734064	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.03E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
1517	420125.2	3734032	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
1518	420131.7	3734016	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
1519	420138.3	3734000	1.24E-05	5.69E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.30E-09
1520	420144.8	3733984	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
1521	420151.3	3733968	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.13E-09
1522	420157.9	3733952	1.17E-05	5.34E-05	1.17E-07	1.60E-06	7.30E-06	1.74E-08	9.83E-07	3.36E-06	4.04E-09
1523	420170.9	3733919	1.10E-05	5.05E-05	1.10E-07	1.51E-06	6.91E-06	1.64E-08	9.29E-07	3.17E-06	3.82E-09
1524	420185.5	3733900	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
1525	420201.6	3733893	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.67E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
1526	420241.7	3733877	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.82E-07	3.01E-06	3.62E-09
1527	420289.9	3733857	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
1528	420306	3733851	9.90E-06	4.53E-05	9.89E-08	1.36E-06	6.19E-06	1.47E-08	8.33E-07	2.84E-06	3.42E-09
1529	420338.1	3733838	9.55E-06	4.37E-05	9.55E-08	1.31E-06	5.97E-06	1.42E-08	8.04E-07	2.75E-06	3.30E-09
1530	420402.4	3733811	8.92E-06	4.08E-05	8.91E-08	1.22E-06	5.58E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09

1531	420418.4	3733805	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
1532	420434.5	3733798	8.67E-06	3.96E-05	8.66E-08	1.19E-06	5.42E-06	1.29E-08	7.29E-07	2.49E-06	3.00E-09
1533	420450.6	3733792	8.56E-06	3.92E-05	8.56E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
1534	420466.6	3733785	8.47E-06	3.87E-05	8.47E-08	1.16E-06	5.30E-06	1.26E-08	7.13E-07	2.43E-06	2.93E-09
1535	420555	3733749	8.18E-06	3.74E-05	8.17E-08	1.12E-06	5.11E-06	1.22E-08	6.88E-07	2.35E-06	2.83E-09
1536	420571	3733742	8.15E-06	3.73E-05	8.15E-08	1.12E-06	5.10E-06	1.21E-08	6.86E-07	2.34E-06	2.82E-09
1537	420587.1	3733736	8.13E-06	3.72E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
1538	420603.2	3733729	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
1539	420619.2	3733723	8.09E-06	3.70E-05	8.08E-08	1.11E-06	5.06E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
1540	419984.8	3734386	8.12E-06	3.71E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.83E-07	2.33E-06	2.81E-09
1541	419985	3734404	8.06E-06	3.68E-05	8.05E-08	1.10E-06	5.04E-06	1.20E-08	6.78E-07	2.32E-06	2.78E-09
1542	419947.9	3734370	7.35E-06	3.36E-05	7.35E-08	1.01E-06	4.60E-06	1.09E-08	6.19E-07	2.11E-06	2.54E-09
1543	419954.4	3734354	7.55E-06	3.45E-05	7.54E-08	1.03E-06	4.72E-06	1.12E-08	6.35E-07	2.17E-06	2.61E-09
1544	419960.9	3734338	7.74E-06	3.54E-05	7.74E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
1545	419967.4	3734322	7.95E-06	3.63E-05	7.94E-08	1.09E-06	4.97E-06	1.18E-08	6.68E-07	2.28E-06	2.75E-09
1546	419973.9	3734306	8.16E-06	3.73E-05	8.16E-08	1.12E-06	5.10E-06	1.22E-08	6.87E-07	2.35E-06	2.82E-09
1547	419980.4	3734290	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1548	419993.4	3734258	8.89E-06	4.06E-05	8.89E-08	1.22E-06	5.56E-06	1.32E-08	7.48E-07	2.55E-06	3.07E-09
1549	419999.9	3734242	9.15E-06	4.19E-05	9.15E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
1550	420006.4	3734226	9.43E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
1551	420012.8	3734210	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
1552	420019.3	3734194	9.97E-06	4.56E-05	9.97E-08	1.37E-06	6.23E-06	1.48E-08	8.39E-07	2.87E-06	3.45E-09
1553	420038.8	3734147	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.04E-07	3.09E-06	3.71E-09
1554	420045.3	3734131	1.10E-05	5.01E-05	1.10E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
1555	420051.8	3734115	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
1556	420058.3	3734099	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
1557	420064.8	3734083	1.15E-05	5.24E-05	1.14E-07	1.57E-06	7.16E-06	1.71E-08	9.64E-07	3.29E-06	3.96E-09
1558	420071.3	3734067	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
1559	420090.7	3734019	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
1560	420097.2	3734003	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
1561	420103.7	3733987	1.13E-05	5.19E-05	1.13E-07	1.56E-06	7.10E-06	1.69E-08	9.55E-07	3.26E-06	3.92E-09
1562	420110.2	3733971	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.42E-07	3.22E-06	3.87E-09
1563	420116.7	3733955	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.88E-06	1.64E-08	9.26E-07	3.16E-06	3.80E-09
1564	420142.7	3733891	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.26E-06	1.49E-08	8.42E-07	2.88E-06	3.46E-09
1565	420157.1	3733872	9.72E-06	4.44E-05	9.71E-08	1.33E-06	6.08E-06	1.45E-08	8.18E-07	2.79E-06	3.36E-09
1566	420173.1	3733865	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
1567	420189	3733859	9.65E-06	4.41E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.12E-07	2.77E-06	3.34E-09
1568	420205	3733852	9.59E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
1569	420220.9	3733846	9.50E-06	4.34E-05	9.49E-08	1.30E-06	5.94E-06	1.41E-08	7.99E-07	2.73E-06	3.28E-09
1570	420236.9	3733839	9.39E-06	4.29E-05	9.39E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.24E-09
1571	420316.7	3733807	8.68E-06	3.97E-05	8.68E-08	1.19E-06	5.43E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
1572	420332.6	3733800	8.53E-06	3.90E-05	8.53E-08	1.17E-06	5.33E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
1573	420348.6	3733793	8.39E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
1574	420388.5	3733777	8.07E-06	3.69E-05	8.06E-08	1.11E-06	5.04E-06	1.20E-08	6.79E-07	2.32E-06	2.79E-09
1575	420404.4	3733771	7.96E-06	3.64E-05	7.95E-08	1.09E-06	4.98E-06	1.18E-08	6.70E-07	2.29E-06	2.75E-09
1576	420420.4	3733764	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
1577	420436.4	3733758	7.77E-06	3.55E-05	7.76E-08	1.06E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.68E-09
1578	420452.3	3733751	7.69E-06	3.52E-05	7.69E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
1579	420468.3	3733745	7.63E-06	3.49E-05	7.62E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
1580	420548	3733712	7.43E-06	3.40E-05	7.43E-08	1.02E-06	4.65E-06	1.11E-08	6.25E-07	2.14E-06	2.57E-09
1581	420564	3733705	7.41E-06	3.39E-05	7.41E-08	1.02E-06	4.63E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
1582	420580	3733699	7.40E-06	3.38E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
1583	420595.9	3733692	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
1584	420611.9	3733686	7.37E-06	3.37E-05	7.37E-08	1.01E-06	4.61E-06	1.10E-08	6.20E-07	2.12E-06	2.55E-09
1585	419944.8	3734387	7.24E-06	3.31E-05	7.23E-08	9.92E-07	4.52E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
1586	419945	3734404	7.18E-06	3.28E-05	7.18E-08	9.84E-07	4.49E-06	1.07E-08	6.04E-07	2.06E-06	2.48E-09
1587	420639.9	3734404	9.63E-04	4.40E-03	9.62E-06	1.32E-04	6.02E-04	1.43E-06	8.10E-05	2.77E-04	3.33E-07
1588	420648.3	3734409	1.23E-03	5.62E-03	1.23E-05	1.69E-04	7.69E-04	1.83E-06	1.03E-04	3.53E-04	4.25E-07
1589	420656.6	3734414	1.63E-03	7.46E-03	1.63E-05	2.24E-04	1.02E-03	2.43E-06	1.37E-04	4.69E-04	5.64E-07

1590	420665	3734419	2.28E-03	1.04E-02	2.27E-05	3.12E-04	1.42E-03	3.39E-06	1.91E-04	6.54E-04	7.87E-07
1591	420673.3	3734424	3.36E-03	1.54E-02	3.36E-05	4.61E-04	2.10E-03	5.00E-06	2.83E-04	9.65E-04	1.16E-06
1592	420643.3	3734418	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.35E-07
1593	420651.6	3734423	1.67E-03	7.64E-03	1.67E-05	2.29E-04	1.04E-03	2.49E-06	1.40E-04	4.80E-04	5.77E-07
1594	420660	3734427	2.32E-03	1.06E-02	2.32E-05	3.18E-04	1.45E-03	3.45E-06	1.95E-04	6.66E-04	8.01E-07
1595	420668.3	3734432	3.39E-03	1.55E-02	3.39E-05	4.65E-04	2.12E-03	5.05E-06	2.85E-04	9.74E-04	1.17E-06
1596	420638.3	3734426	1.24E-03	5.67E-03	1.24E-05	1.70E-04	7.76E-04	1.85E-06	1.04E-04	3.57E-04	4.29E-07
1597	420646.6	3734431	1.63E-03	7.45E-03	1.63E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.68E-04	5.63E-07
1598	420654.9	3734436	2.22E-03	1.02E-02	2.22E-05	3.05E-04	1.39E-03	3.31E-06	1.87E-04	6.39E-04	7.69E-07
1599	420663.3	3734441	3.19E-03	1.46E-02	3.19E-05	4.37E-04	1.99E-03	4.75E-06	2.68E-04	9.16E-04	1.10E-06
1600	420608.6	3734409	5.93E-04	2.71E-03	5.93E-06	8.13E-05	3.71E-04	8.83E-07	4.99E-05	1.70E-04	2.05E-07
1601	420641.6	3734440	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.62E-04	2.29E-06	1.29E-04	4.42E-04	5.32E-07
1602	420649.9	3734445	2.06E-03	9.43E-03	2.06E-05	2.83E-04	1.29E-03	3.07E-06	1.74E-04	5.93E-04	7.13E-07
1603	420658.3	3734449	2.88E-03	1.32E-02	2.88E-05	3.95E-04	1.80E-03	4.29E-06	2.43E-04	8.28E-04	9.96E-07
1604	420613.8	3734433	7.61E-04	3.48E-03	7.61E-06	1.04E-04	4.76E-04	1.13E-06	6.40E-05	2.19E-04	2.63E-07
1605	420599.5	3734413	5.24E-04	2.39E-03	5.23E-06	7.18E-05	3.27E-04	7.80E-07	4.41E-05	1.51E-04	1.81E-07
1606	420644.9	3734453	1.87E-03	8.55E-03	1.87E-05	2.56E-04	1.17E-03	2.79E-06	1.57E-04	5.38E-04	6.47E-07
1607	420653.2	3734458	2.55E-03	1.16E-02	2.55E-05	3.49E-04	1.59E-03	3.79E-06	2.14E-04	7.32E-04	8.80E-07
1608	420609.4	3734442	7.25E-04	3.32E-03	7.25E-06	9.94E-05	4.53E-04	1.08E-06	6.10E-05	2.08E-04	2.51E-07
1609	420598.6	3734431	5.64E-04	2.58E-03	5.64E-06	7.74E-05	3.53E-04	8.40E-07	4.75E-05	1.62E-04	1.95E-07
1610	420591.1	3734418	4.71E-04	2.16E-03	4.71E-06	6.46E-05	2.95E-04	7.02E-07	3.97E-05	1.35E-04	1.63E-07
1611	420639.9	3734462	1.67E-03	7.63E-03	1.67E-05	2.29E-04	1.04E-03	2.48E-06	1.40E-04	4.79E-04	5.76E-07
1612	420648.2	3734467	2.23E-03	1.02E-02	2.23E-05	3.06E-04	1.40E-03	3.32E-06	1.88E-04	6.41E-04	7.71E-07
1613	420590.9	3734437	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.13E-04	7.46E-07	4.22E-05	1.44E-04	1.73E-07
1614	420582.1	3734422	4.15E-04	1.90E-03	4.14E-06	5.68E-05	2.59E-04	6.17E-07	3.49E-05	1.19E-04	1.43E-07
1615	420579.7	3734414	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.77E-07	3.26E-05	1.11E-04	1.34E-07
1616	420643.2	3734475	1.93E-03	8.82E-03	1.93E-05	2.64E-04	1.21E-03	2.87E-06	1.62E-04	5.54E-04	6.67E-07
1617	420573.7	3734428	3.69E-04	1.69E-03	3.69E-06	5.06E-05	2.31E-04	5.49E-07	3.11E-05	1.06E-04	1.28E-07
1618	420569.3	3734412	3.32E-04	1.52E-03	3.31E-06	4.55E-05	2.07E-04	4.94E-07	2.79E-05	9.53E-05	1.15E-07
1619	420613.2	3734470	8.35E-04	3.82E-03	8.35E-06	1.15E-04	5.22E-04	1.24E-06	7.03E-05	2.40E-04	2.89E-07
1620	420638.2	3734484	1.64E-03	7.52E-03	1.64E-05	2.25E-04	1.03E-03	2.45E-06	1.38E-04	4.72E-04	5.68E-07
1621	420593.3	3734467	5.45E-04	2.49E-03	5.45E-06	7.47E-05	3.41E-04	8.11E-07	4.59E-05	1.57E-04	1.88E-07
1622	420564.8	3734432	3.25E-04	1.49E-03	3.25E-06	4.45E-05	2.03E-04	4.84E-07	2.73E-05	9.34E-05	1.12E-07
1623	420562.3	3734423	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
1624	420559.9	3734414	2.93E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.36E-07	2.46E-05	8.41E-05	1.01E-07
1625	420557.4	3734405	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.32E-05	7.94E-05	9.55E-08
1626	420599.8	3734473	6.21E-04	2.84E-03	6.21E-06	8.52E-05	3.89E-04	9.25E-07	5.23E-05	1.79E-04	2.15E-07
1627	420608.1	3734478	7.43E-04	3.40E-03	7.43E-06	1.02E-04	4.65E-04	1.11E-06	6.25E-05	2.14E-04	2.57E-07
1628	420616.5	3734483	9.00E-04	4.12E-03	9.00E-06	1.23E-04	5.63E-04	1.34E-06	7.57E-05	2.59E-04	3.11E-07
1629	420588.8	3734476	4.97E-04	2.27E-03	4.96E-06	6.81E-05	3.10E-04	7.39E-07	4.18E-05	1.43E-04	1.72E-07
1630	420576.7	3734464	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.38E-05	1.15E-04	1.39E-07
1631	420556.3	3734438	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.80E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
1632	420551.8	3734421	2.66E-04	1.22E-03	2.66E-06	3.64E-05	1.66E-04	3.96E-07	2.24E-05	7.64E-05	9.19E-08
1633	420603.1	3734487	6.56E-04	3.00E-03	6.56E-06	8.99E-05	4.10E-04	9.77E-07	5.52E-05	1.89E-04	2.27E-07
1634	420611.5	3734492	7.84E-04	3.58E-03	7.83E-06	1.07E-04	4.90E-04	1.17E-06	6.59E-05	2.25E-04	2.71E-07
1635	420578.5	3734493	3.99E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.15E-04	1.38E-07
1636	420566.1	3734481	3.30E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.49E-05	1.14E-07
1637	420553.7	3734468	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.32E-05	7.94E-05	9.55E-08
1638	420534.3	3734431	2.13E-04	9.73E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.11E-05	7.35E-08
1639	420529.7	3734414	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.85E-08
1640	420593.1	3734504	5.07E-04	2.32E-03	5.07E-06	6.95E-05	3.17E-04	7.55E-07	4.26E-05	1.46E-04	1.75E-07
1641	420601.4	3734509	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
1642	420609.8	3734514	6.91E-04	3.16E-03	6.91E-06	9.47E-05	4.32E-04	1.03E-06	5.81E-05	1.99E-04	2.39E-07
1643	420568.4	3734510	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
1644	420555.7	3734498	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.80E-05	9.38E-08
1645	420543.1	3734485	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.64E-05	7.99E-08
1646	420530.4	3734472	1.98E-04	9.05E-04	1.98E-06	2.71E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.84E-08
1647	420516.9	3734440	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
1648	420512.1	3734423	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08

1649	420583.1	3734521	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.86E-07	3.31E-05	1.13E-04	1.36E-07
1650	420591.4	3734526	4.47E-04	2.05E-03	4.47E-06	6.13E-05	2.80E-04	6.66E-07	3.76E-05	1.29E-04	1.55E-07
1651	420599.7	3734531	5.10E-04	2.33E-03	5.10E-06	6.99E-05	3.19E-04	7.59E-07	4.29E-05	1.47E-04	1.76E-07
1652	420608.1	3734536	5.84E-04	2.67E-03	5.83E-06	8.00E-05	3.65E-04	8.69E-07	4.91E-05	1.68E-04	2.02E-07
1653	420558.2	3734528	2.60E-04	1.19E-03	2.59E-06	3.56E-05	1.62E-04	3.86E-07	2.18E-05	7.46E-05	8.97E-08
1654	420551.8	3734521	2.42E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.60E-07	2.03E-05	6.94E-05	8.35E-08
1655	420539	3734508	2.09E-04	9.55E-04	2.09E-06	2.86E-05	1.31E-04	3.11E-07	1.76E-05	6.00E-05	7.22E-08
1656	420532.5	3734502	1.94E-04	8.89E-04	1.94E-06	2.67E-05	1.22E-04	2.89E-07	1.64E-05	5.59E-05	6.72E-08
1657	420519.7	3734489	1.69E-04	7.72E-04	1.69E-06	2.31E-05	1.06E-04	2.51E-07	1.42E-05	4.85E-05	5.83E-08
1658	420504.4	3734467	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
1659	420497.1	3734441	1.36E-04	6.23E-04	1.36E-06	1.87E-05	8.52E-05	2.03E-07	1.15E-05	3.91E-05	4.71E-08
1660	420494.7	3734432	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.60E-08
1661	420492.3	3734424	1.30E-04	5.95E-04	1.30E-06	1.78E-05	8.14E-05	1.94E-07	1.09E-05	3.74E-05	4.50E-08
1662	420489.8	3734415	1.27E-04	5.81E-04	1.27E-06	1.74E-05	7.94E-05	1.89E-07	1.07E-05	3.65E-05	4.39E-08
1663	420487.4	3734406	1.24E-04	5.66E-04	1.24E-06	1.70E-05	7.74E-05	1.84E-07	1.04E-05	3.56E-05	4.28E-08
1664	420564.7	3734534	2.79E-04	1.28E-03	2.79E-06	3.82E-05	1.74E-04	4.15E-07	2.35E-05	8.01E-05	9.64E-08
1665	420535.1	3734532	1.87E-04	8.57E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.48E-08
1666	420528.6	3734525	1.76E-04	8.03E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.05E-05	6.07E-08
1667	420522.1	3734519	1.65E-04	7.53E-04	1.65E-06	2.26E-05	1.03E-04	2.45E-07	1.39E-05	4.73E-05	5.69E-08
1668	420515.6	3734512	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.65E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
1669	420509.1	3734506	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.05E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
1670	420502.6	3734499	1.36E-04	6.21E-04	1.36E-06	1.86E-05	8.50E-05	2.02E-07	1.14E-05	3.91E-05	4.70E-08
1671	420496.1	3734493	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
1672	420487.1	3734477	1.18E-04	5.40E-04	1.18E-06	1.62E-05	7.39E-05	1.76E-07	9.94E-06	3.40E-05	4.08E-08
1673	420484.6	3734469	1.16E-04	5.32E-04	1.16E-06	1.59E-05	7.27E-05	1.73E-07	9.79E-06	3.34E-05	4.02E-08
1674	420482.2	3734460	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.15E-05	1.70E-07	9.62E-06	3.29E-05	3.95E-08
1675	420477.3	3734442	1.10E-04	5.05E-04	1.10E-06	1.51E-05	6.90E-05	1.64E-07	9.29E-06	3.17E-05	3.82E-08
1676	420474.8	3734433	1.08E-04	4.95E-04	1.08E-06	1.48E-05	6.77E-05	1.61E-07	9.11E-06	3.11E-05	3.74E-08
1677	420472.3	3734424	1.06E-04	4.86E-04	1.06E-06	1.46E-05	6.64E-05	1.58E-07	8.93E-06	3.05E-05	3.67E-08
1678	420469.9	3734415	1.04E-04	4.76E-04	1.04E-06	1.43E-05	6.50E-05	1.55E-07	8.75E-06	2.99E-05	3.60E-08
1679	420467.4	3734407	1.02E-04	4.65E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.57E-06	2.93E-05	3.52E-08
1680	420579.7	3734566	2.98E-04	1.36E-03	2.98E-06	4.08E-05	1.86E-04	4.44E-07	2.51E-05	8.56E-05	1.03E-07
1681	420588	3734571	3.26E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.38E-05	1.13E-07
1682	420538	3734562	1.76E-04	8.04E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.05E-05	6.08E-08
1683	420511.7	3734536	1.40E-04	6.42E-04	1.40E-06	1.93E-05	8.78E-05	2.09E-07	1.18E-05	4.04E-05	4.85E-08
1684	420505.1	3734529	1.33E-04	6.06E-04	1.32E-06	1.82E-05	8.29E-05	1.97E-07	1.12E-05	3.81E-05	4.58E-08
1685	420498.6	3734523	1.25E-04	5.72E-04	1.25E-06	1.71E-05	7.82E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
1686	420492	3734516	1.18E-04	5.39E-04	1.18E-06	1.62E-05	7.38E-05	1.76E-07	9.92E-06	3.39E-05	4.08E-08
1687	420485.4	3734510	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.96E-05	1.66E-07	9.37E-06	3.20E-05	3.85E-08
1688	420478.8	3734503	1.05E-04	4.81E-04	1.05E-06	1.44E-05	6.57E-05	1.56E-07	8.84E-06	3.02E-05	3.63E-08
1689	420469.8	3734487	9.80E-05	4.48E-04	9.80E-07	1.34E-05	6.13E-05	1.46E-07	8.25E-06	2.82E-05	3.39E-08
1690	420467.3	3734479	9.67E-05	4.42E-04	9.66E-07	1.32E-05	6.04E-05	1.44E-07	8.13E-06	2.78E-05	3.34E-08
1691	420464.8	3734470	9.53E-05	4.36E-04	9.52E-07	1.31E-05	5.96E-05	1.42E-07	8.02E-06	2.74E-05	3.29E-08
1692	420462.3	3734461	9.39E-05	4.29E-04	9.38E-07	1.29E-05	5.87E-05	1.40E-07	7.90E-06	2.70E-05	3.24E-08
1693	420457.4	3734443	9.09E-05	4.16E-04	9.09E-07	1.25E-05	5.69E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
1694	420454.9	3734434	8.94E-05	4.09E-04	8.94E-07	1.23E-05	5.59E-05	1.33E-07	7.52E-06	2.57E-05	3.09E-08
1695	420452.4	3734425	8.79E-05	4.02E-04	8.79E-07	1.21E-05	5.50E-05	1.31E-07	7.40E-06	2.53E-05	3.04E-08
1696	420449.9	3734416	8.64E-05	3.95E-04	8.63E-07	1.18E-05	5.40E-05	1.29E-07	7.27E-06	2.48E-05	2.99E-08
1697	420447.5	3734407	8.48E-05	3.88E-04	8.48E-07	1.16E-05	5.30E-05	1.26E-07	7.14E-06	2.44E-05	2.93E-08
1698	420544.6	3734569	1.85E-04	8.47E-04	1.85E-06	2.54E-05	1.16E-04	2.76E-07	1.56E-05	5.33E-05	6.40E-08
1699	420569.6	3734583	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
1700	420578	3734588	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.13E-05	7.29E-05	8.76E-08
1701	420527.9	3734579	1.47E-04	6.71E-04	1.47E-06	2.01E-05	9.17E-05	2.18E-07	1.23E-05	4.22E-05	5.07E-08
1702	420521.3	3734573	1.40E-04	6.40E-04	1.40E-06	1.92E-05	8.75E-05	2.08E-07	1.18E-05	4.02E-05	4.84E-08
1703	420514.7	3734566	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.61E-08
1704	420481.5	3734533	1.03E-04	4.71E-04	1.03E-06	1.41E-05	6.44E-05	1.53E-07	8.66E-06	2.96E-05	3.56E-08
1705	420474.9	3734526	9.76E-05	4.46E-04	9.76E-07	1.34E-05	6.10E-05	1.45E-07	8.21E-06	2.80E-05	3.37E-08
1706	420468.3	3734520	9.26E-05	4.23E-04	9.25E-07	1.27E-05	5.79E-05	1.38E-07	7.79E-06	2.66E-05	3.20E-08
1707	420461.6	3734513	8.78E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.52E-05	3.03E-08

1708	420452.5	3734497	8.24E-05	3.77E-04	8.23E-07	1.13E-05	5.15E-05	1.23E-07	6.93E-06	2.37E-05	2.85E-08
1709	420450	3734488	8.13E-05	3.72E-04	8.13E-07	1.11E-05	5.08E-05	1.21E-07	6.84E-06	2.34E-05	2.81E-08
1710	420447.5	3734479	8.03E-05	3.67E-04	8.03E-07	1.10E-05	5.02E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
1711	420445	3734470	7.93E-05	3.62E-04	7.92E-07	1.09E-05	4.96E-05	1.18E-07	6.67E-06	2.28E-05	2.74E-08
1712	420534.6	3734586	1.53E-04	7.02E-04	1.53E-06	2.10E-05	9.59E-05	2.28E-07	1.29E-05	4.41E-05	5.30E-08
1713	420542.9	3734591	1.65E-04	7.52E-04	1.64E-06	2.26E-05	1.03E-04	2.45E-07	1.38E-05	4.73E-05	5.68E-08
1714	420551.2	3734595	1.76E-04	8.05E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.06E-05	6.09E-08
1715	420517.9	3734596	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.54E-05	4.26E-08
1716	420511.2	3734590	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08
1717	420504.5	3734583	1.14E-04	5.19E-04	1.13E-06	1.56E-05	7.10E-05	1.69E-07	9.55E-06	3.26E-05	3.92E-08
1718	420497.8	3734576	1.09E-04	4.97E-04	1.09E-06	1.49E-05	6.80E-05	1.62E-07	9.15E-06	3.12E-05	3.76E-08
1719	420491.1	3734570	1.04E-04	4.75E-04	1.04E-06	1.42E-05	6.50E-05	1.55E-07	8.74E-06	2.99E-05	3.59E-08
1720	420484.5	3734563	9.92E-05	4.54E-04	9.92E-07	1.36E-05	6.21E-05	1.48E-07	8.35E-06	2.85E-05	3.43E-08
1721	420457.8	3734537	8.19E-05	3.74E-04	8.19E-07	1.12E-05	5.12E-05	1.22E-07	6.89E-06	2.35E-05	2.83E-08
1722	420451.1	3734530	7.80E-05	3.57E-04	7.80E-07	1.07E-05	4.88E-05	1.16E-07	6.56E-06	2.24E-05	2.70E-08
1723	420444.4	3734523	7.43E-05	3.40E-04	7.42E-07	1.02E-05	4.64E-05	1.11E-07	6.25E-06	2.13E-05	2.57E-08
1724	420425.1	3734471	6.68E-05	3.05E-04	6.68E-07	9.16E-06	4.18E-05	9.94E-08	5.62E-06	1.92E-05	2.31E-08
1725	420422.6	3734462	6.60E-05	3.02E-04	6.59E-07	9.04E-06	4.12E-05	9.82E-08	5.55E-06	1.90E-05	2.28E-08
1726	420415.1	3734435	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
1727	420412.5	3734426	6.26E-05	2.86E-04	6.26E-07	8.58E-06	3.91E-05	9.32E-08	5.27E-06	1.80E-05	2.16E-08
1728	420410	3734417	6.18E-05	2.82E-04	6.17E-07	8.47E-06	3.86E-05	9.19E-08	5.20E-06	1.77E-05	2.13E-08
1729	420407.5	3734408	6.09E-05	2.78E-04	6.09E-07	8.35E-06	3.81E-05	9.07E-08	5.12E-06	1.75E-05	2.10E-08
1730	420524.5	3734603	1.28E-04	5.86E-04	1.28E-06	1.76E-05	8.02E-05	1.91E-07	1.08E-05	3.68E-05	4.43E-08
1731	420532.9	3734608	1.36E-04	6.24E-04	1.36E-06	1.87E-05	8.53E-05	2.03E-07	1.15E-05	3.92E-05	4.71E-08
1732	420541.2	3734613	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
1733	420549.6	3734618	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.61E-05	2.29E-07	1.29E-05	4.42E-05	5.31E-08
1734	420507.8	3734614	1.05E-04	4.79E-04	1.05E-06	1.43E-05	6.54E-05	1.56E-07	8.81E-06	3.01E-05	3.62E-08
1735	420501.1	3734607	1.01E-04	4.62E-04	1.01E-06	1.39E-05	6.32E-05	1.50E-07	8.50E-06	2.90E-05	3.49E-08
1736	420494.3	3734600	9.74E-05	4.45E-04	9.74E-07	1.34E-05	6.09E-05	1.45E-07	8.20E-06	2.80E-05	3.37E-08
1737	420487.6	3734594	9.38E-05	4.29E-04	9.37E-07	1.29E-05	5.86E-05	1.40E-07	7.89E-06	2.69E-05	3.24E-08
1738	420480.9	3734587	9.01E-05	4.12E-04	9.01E-07	1.24E-05	5.63E-05	1.34E-07	7.58E-06	2.59E-05	3.11E-08
1739	420474.2	3734580	8.65E-05	3.95E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
1740	420467.5	3734574	8.29E-05	3.79E-04	8.29E-07	1.14E-05	5.18E-05	1.23E-07	6.98E-06	2.38E-05	2.87E-08
1741	420460.8	3734567	7.94E-05	3.63E-04	7.94E-07	1.09E-05	4.96E-05	1.18E-07	6.68E-06	2.28E-05	2.74E-08
1742	420454	3734560	7.60E-05	3.47E-04	7.60E-07	1.04E-05	4.75E-05	1.13E-07	6.39E-06	2.18E-05	2.63E-08
1743	420427.2	3734533	6.35E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.45E-08	5.34E-06	1.82E-05	2.19E-08
1744	420417.9	3734518	6.01E-05	2.75E-04	6.01E-07	8.24E-06	3.76E-05	8.95E-08	5.06E-06	1.73E-05	2.08E-08
1745	420415.4	3734508	5.95E-05	2.72E-04	5.95E-07	8.16E-06	3.72E-05	8.86E-08	5.01E-06	1.71E-05	2.06E-08
1746	420412.9	3734499	5.89E-05	2.69E-04	5.89E-07	8.08E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
1747	420410.3	3734490	5.83E-05	2.66E-04	5.82E-07	7.99E-06	3.64E-05	8.68E-08	4.90E-06	1.67E-05	2.01E-08
1748	420407.8	3734481	5.76E-05	2.63E-04	5.76E-07	7.90E-06	3.60E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
1749	420405.3	3734472	5.70E-05	2.60E-04	5.69E-07	7.81E-06	3.56E-05	8.48E-08	4.79E-06	1.64E-05	1.97E-08
1750	420402.7	3734463	5.63E-05	2.57E-04	5.63E-07	7.72E-06	3.52E-05	8.38E-08	4.74E-06	1.62E-05	1.95E-08
1751	420395.1	3734435	5.44E-05	2.49E-04	5.43E-07	7.45E-06	3.40E-05	8.09E-08	4.57E-06	1.56E-05	1.88E-08
1752	420392.6	3734426	5.37E-05	2.46E-04	5.37E-07	7.36E-06	3.36E-05	7.99E-08	4.52E-06	1.54E-05	1.86E-08
1753	420390.1	3734417	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
1754	420387.5	3734408	5.24E-05	2.40E-04	5.24E-07	7.18E-06	3.28E-05	7.80E-08	4.41E-06	1.51E-05	1.81E-08
1755	420514.5	3734620	1.08E-04	4.95E-04	1.08E-06	1.48E-05	6.77E-05	1.61E-07	9.11E-06	3.11E-05	3.74E-08
1756	420522.8	3734625	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.16E-05	1.70E-07	9.63E-06	3.29E-05	3.96E-08
1757	420531.2	3734630	1.21E-04	5.52E-04	1.21E-06	1.66E-05	7.55E-05	1.80E-07	1.02E-05	3.47E-05	4.18E-08
1758	420539.5	3734635	1.27E-04	5.82E-04	1.27E-06	1.75E-05	7.96E-05	1.90E-07	1.07E-05	3.66E-05	4.40E-08
1759	420497.7	3734631	8.98E-05	4.10E-04	8.97E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
1760	420491	3734624	8.70E-05	3.98E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.32E-06	2.50E-05	3.01E-08
1761	420484.2	3734618	8.42E-05	3.85E-04	8.42E-07	1.15E-05	5.26E-05	1.25E-07	7.08E-06	2.42E-05	2.91E-08
1762	420477.5	3734611	8.14E-05	3.72E-04	8.14E-07	1.12E-05	5.09E-05	1.21E-07	6.85E-06	2.34E-05	2.81E-08
1763	420470.7	3734604	7.86E-05	3.59E-04	7.85E-07	1.08E-05	4.91E-05	1.17E-07	6.61E-06	2.26E-05	2.72E-08
1764	420464	3734597	7.57E-05	3.46E-04	7.57E-07	1.04E-05	4.74E-05	1.13E-07	6.37E-06	2.18E-05	2.62E-08
1765	420457.2	3734591	7.29E-05	3.33E-04	7.29E-07	1.00E-05	4.56E-05	1.09E-07	6.14E-06	2.10E-05	2.52E-08
1766	420450.4	3734584	7.01E-05	3.21E-04	7.01E-07	9.62E-06	4.39E-05	1.04E-07	5.90E-06	2.02E-05	2.42E-08

1767	420443.7	3734577	6.74E-05	3.08E-04	6.74E-07	9.24E-06	4.21E-05	1.00E-07	5.67E-06	1.94E-05	2.33E-08
1768	420436.9	3734570	6.47E-05	2.96E-04	6.47E-07	8.87E-06	4.05E-05	9.63E-08	5.44E-06	1.86E-05	2.24E-08
1769	420400.6	3734528	5.21E-05	2.38E-04	5.20E-07	7.14E-06	3.25E-05	7.75E-08	4.38E-06	1.50E-05	1.80E-08
1770	420398.1	3734518	5.16E-05	2.36E-04	5.16E-07	7.07E-06	3.23E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
1771	420395.6	3734509	5.11E-05	2.34E-04	5.11E-07	7.01E-06	3.20E-05	7.61E-08	4.30E-06	1.47E-05	1.77E-08
1772	420393	3734500	5.06E-05	2.32E-04	5.06E-07	6.94E-06	3.17E-05	7.54E-08	4.26E-06	1.46E-05	1.75E-08
1773	420390.5	3734491	5.01E-05	2.29E-04	5.01E-07	6.87E-06	3.13E-05	7.46E-08	4.22E-06	1.44E-05	1.73E-08
1774	420387.9	3734482	4.96E-05	2.27E-04	4.96E-07	6.80E-06	3.10E-05	7.38E-08	4.17E-06	1.43E-05	1.71E-08
1775	420385.4	3734472	4.91E-05	2.24E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
1776	420382.8	3734463	4.86E-05	2.22E-04	4.85E-07	6.66E-06	3.04E-05	7.23E-08	4.09E-06	1.40E-05	1.68E-08
1777	420375.2	3734436	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	7.00E-08	3.95E-06	1.35E-05	1.62E-08
1778	420372.6	3734427	4.65E-05	2.13E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
1779	420370.1	3734417	4.60E-05	2.10E-04	4.60E-07	6.30E-06	2.88E-05	6.85E-08	3.87E-06	1.32E-05	1.59E-08
1780	420367.5	3734408	4.55E-05	2.08E-04	4.55E-07	6.23E-06	2.84E-05	6.77E-08	3.83E-06	1.31E-05	1.57E-08
1781	420537.8	3734657	1.12E-04	5.11E-04	1.12E-06	1.53E-05	6.99E-05	1.66E-07	9.41E-06	3.21E-05	3.86E-08
1782	420474.1	3734635	7.32E-05	3.35E-04	7.32E-07	1.00E-05	4.58E-05	1.09E-07	6.16E-06	2.10E-05	2.53E-08
1783	420467.3	3734628	7.11E-05	3.25E-04	7.10E-07	9.74E-06	4.44E-05	1.06E-07	5.98E-06	2.04E-05	2.46E-08
1784	420460.5	3734621	6.88E-05	3.15E-04	6.88E-07	9.44E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
1785	420453.7	3734614	6.66E-05	3.05E-04	6.66E-07	9.13E-06	4.17E-05	9.92E-08	5.61E-06	1.91E-05	2.30E-08
1786	420447	3734608	6.44E-05	2.94E-04	6.44E-07	8.83E-06	4.03E-05	9.59E-08	5.42E-06	1.85E-05	2.23E-08
1787	420440.2	3734601	6.22E-05	2.84E-04	6.21E-07	8.52E-06	3.89E-05	9.25E-08	5.23E-06	1.79E-05	2.15E-08
1788	420413	3734574	5.35E-05	2.45E-04	5.35E-07	7.34E-06	3.35E-05	7.97E-08	4.50E-06	1.54E-05	1.85E-08
1789	420406.3	3734567	5.15E-05	2.35E-04	5.14E-07	7.06E-06	3.22E-05	7.66E-08	4.33E-06	1.48E-05	1.78E-08
1790	420399.5	3734560	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.09E-05	7.37E-08	4.16E-06	1.42E-05	1.71E-08
1791	420383.4	3734538	4.54E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.76E-08	3.82E-06	1.31E-05	1.57E-08
1792	420380.8	3734528	4.51E-05	2.06E-04	4.51E-07	6.18E-06	2.82E-05	6.71E-08	3.79E-06	1.30E-05	1.56E-08
1793	420378.2	3734519	4.47E-05	2.04E-04	4.47E-07	6.13E-06	2.80E-05	6.66E-08	3.76E-06	1.28E-05	1.55E-08
1794	420375.7	3734510	4.43E-05	2.03E-04	4.43E-07	6.08E-06	2.77E-05	6.60E-08	3.73E-06	1.27E-05	1.53E-08
1795	420373.1	3734501	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.75E-05	6.54E-08	3.70E-06	1.26E-05	1.52E-08
1796	420370.6	3734491	4.35E-05	1.99E-04	4.35E-07	5.96E-06	2.72E-05	6.48E-08	3.66E-06	1.25E-05	1.50E-08
1797	420368	3734482	4.31E-05	1.97E-04	4.31E-07	5.91E-06	2.69E-05	6.41E-08	3.62E-06	1.24E-05	1.49E-08
1798	420365.5	3734473	4.27E-05	1.95E-04	4.26E-07	5.85E-06	2.67E-05	6.35E-08	3.59E-06	1.23E-05	1.47E-08
1799	420362.9	3734464	4.22E-05	1.93E-04	4.22E-07	5.79E-06	2.64E-05	6.29E-08	3.55E-06	1.21E-05	1.46E-08
1800	420355.2	3734436	4.10E-05	1.87E-04	4.10E-07	5.62E-06	2.56E-05	6.10E-08	3.45E-06	1.18E-05	1.42E-08
1801	420352.7	3734427	4.06E-05	1.86E-04	4.06E-07	5.56E-06	2.54E-05	6.04E-08	3.41E-06	1.17E-05	1.40E-08
1802	420350.1	3734418	4.02E-05	1.84E-04	4.02E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
1803	420347.5	3734408	3.98E-05	1.82E-04	3.98E-07	5.45E-06	2.49E-05	5.92E-08	3.35E-06	1.14E-05	1.37E-08
1804	420502.8	3734660	8.33E-05	3.81E-04	8.33E-07	1.14E-05	5.21E-05	1.24E-07	7.01E-06	2.39E-05	2.88E-08
1805	420511.1	3734665	8.71E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.33E-06	2.50E-05	3.01E-08
1806	420519.4	3734670	9.08E-05	4.15E-04	9.08E-07	1.24E-05	5.68E-05	1.35E-07	7.64E-06	2.61E-05	3.14E-08
1807	420527.8	3734674	9.45E-05	4.32E-04	9.45E-07	1.30E-05	5.91E-05	1.41E-07	7.95E-06	2.72E-05	3.27E-08
1808	420467.9	3734683	5.94E-05	2.71E-04	5.93E-07	8.14E-06	3.71E-05	8.83E-08	4.99E-06	1.71E-05	2.05E-08
1809	420461.4	3734677	5.81E-05	2.66E-04	5.80E-07	7.96E-06	3.63E-05	8.64E-08	4.89E-06	1.67E-05	2.01E-08
1810	420454.9	3734670	5.65E-05	2.59E-04	5.65E-07	7.75E-06	3.53E-05	8.42E-08	4.76E-06	1.62E-05	1.95E-08
1811	420448.5	3734664	5.52E-05	2.53E-04	5.52E-07	7.57E-06	3.45E-05	8.22E-08	4.65E-06	1.59E-05	1.91E-08
1812	420416.1	3734632	4.86E-05	2.22E-04	4.86E-07	6.66E-06	3.04E-05	7.23E-08	4.09E-06	1.40E-05	1.68E-08
1813	420409.6	3734625	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.03E-08	3.97E-06	1.36E-05	1.63E-08
1814	420396.7	3734612	4.45E-05	2.03E-04	4.44E-07	6.09E-06	2.78E-05	6.62E-08	3.74E-06	1.28E-05	1.54E-08
1815	420390.2	3734606	4.31E-05	1.97E-04	4.31E-07	5.91E-06	2.69E-05	6.42E-08	3.63E-06	1.24E-05	1.49E-08
1816	420383.7	3734599	4.18E-05	1.91E-04	4.17E-07	5.73E-06	2.61E-05	6.22E-08	3.51E-06	1.20E-05	1.44E-08
1817	420377.3	3734593	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
1818	420370.8	3734586	3.92E-05	1.79E-04	3.92E-07	5.37E-06	2.45E-05	5.83E-08	3.30E-06	1.13E-05	1.35E-08
1819	420357.9	3734573	3.67E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
1820	420341.6	3734532	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.97E-06	1.20E-08
1821	420339.2	3734523	3.45E-05	1.58E-04	3.44E-07	4.72E-06	2.15E-05	5.13E-08	2.90E-06	9.90E-06	1.19E-08
1822	420336.7	3734514	3.42E-05	1.56E-04	3.42E-07	4.69E-06	2.14E-05	5.09E-08	2.88E-06	9.83E-06	1.18E-08
1823	420334.3	3734505	3.40E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.76E-06	1.17E-08
1824	420331.9	3734497	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.01E-08	2.83E-06	9.68E-06	1.16E-08
1825	420329.4	3734488	3.34E-05	1.53E-04	3.34E-07	4.58E-06	2.09E-05	4.98E-08	2.81E-06	9.60E-06	1.16E-08

1826	420327	3734479	3.32E-05	1.52E-04	3.31E-07	4.55E-06	2.07E-05	4.94E-08	2.79E-06	9.53E-06	1.15E-08
1827	420324.5	3734470	3.29E-05	1.50E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.45E-06	1.14E-08
1828	420322.1	3734461	3.26E-05	1.49E-04	3.26E-07	4.47E-06	2.04E-05	4.86E-08	2.74E-06	9.38E-06	1.13E-08
1829	420317.2	3734444	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.22E-06	1.11E-08
1830	420314.8	3734435	3.18E-05	1.46E-04	3.18E-07	4.36E-06	1.99E-05	4.74E-08	2.68E-06	9.15E-06	1.10E-08
1831	420312.3	3734426	3.16E-05	1.44E-04	3.16E-07	4.33E-06	1.97E-05	4.70E-08	2.66E-06	9.07E-06	1.09E-08
1832	420309.9	3734417	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.63E-06	8.99E-06	1.08E-08
1833	420307.4	3734409	3.10E-05	1.42E-04	3.10E-07	4.25E-06	1.94E-05	4.62E-08	2.61E-06	8.92E-06	1.07E-08
1834	420482.7	3734694	6.29E-05	2.88E-04	6.29E-07	8.62E-06	3.93E-05	9.36E-08	5.29E-06	1.81E-05	2.17E-08
1835	420491	3734699	6.52E-05	2.98E-04	6.52E-07	8.94E-06	4.08E-05	9.71E-08	5.49E-06	1.87E-05	2.25E-08
1836	420499.4	3734704	6.75E-05	3.08E-04	6.74E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
1837	420507.7	3734709	6.97E-05	3.19E-04	6.97E-07	9.56E-06	4.36E-05	1.04E-07	5.87E-06	2.00E-05	2.41E-08
1838	420447.7	3734718	4.66E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
1839	420441.2	3734711	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
1840	420434.6	3734705	4.49E-05	2.05E-04	4.49E-07	6.15E-06	2.81E-05	6.68E-08	3.78E-06	1.29E-05	1.55E-08
1841	420415	3734685	4.21E-05	1.93E-04	4.21E-07	5.78E-06	2.63E-05	6.27E-08	3.54E-06	1.21E-05	1.46E-08
1842	420408.5	3734679	4.12E-05	1.88E-04	4.12E-07	5.65E-06	2.57E-05	6.13E-08	3.46E-06	1.18E-05	1.42E-08
1843	420401.9	3734672	4.02E-05	1.84E-04	4.02E-07	5.52E-06	2.52E-05	5.99E-08	3.38E-06	1.16E-05	1.39E-08
1844	420395.4	3734665	3.93E-05	1.80E-04	3.93E-07	5.39E-06	2.46E-05	5.85E-08	3.31E-06	1.13E-05	1.36E-08
1845	420388.8	3734659	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.40E-05	5.71E-08	3.23E-06	1.10E-05	1.32E-08
1846	420382.3	3734652	3.74E-05	1.71E-04	3.73E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1847	420375.7	3734646	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.28E-05	5.42E-08	3.06E-06	1.05E-05	1.26E-08
1848	420369.2	3734639	3.54E-05	1.62E-04	3.54E-07	4.86E-06	2.22E-05	5.27E-08	2.98E-06	1.02E-05	1.22E-08
1849	420362.7	3734633	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.13E-08	2.90E-06	9.91E-06	1.19E-08
1850	420356.1	3734626	3.36E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	5.00E-08	2.82E-06	9.64E-06	1.16E-08
1851	420349.6	3734620	3.26E-05	1.49E-04	3.26E-07	4.47E-06	2.04E-05	4.86E-08	2.75E-06	9.38E-06	1.13E-08
1852	420343	3734613	3.17E-05	1.45E-04	3.17E-07	4.35E-06	1.98E-05	4.72E-08	2.67E-06	9.12E-06	1.10E-08
1853	420336.5	3734607	3.08E-05	1.41E-04	3.08E-07	4.23E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
1854	420329.9	3734600	3.00E-05	1.37E-04	3.00E-07	4.11E-06	1.87E-05	4.46E-08	2.52E-06	8.61E-06	1.04E-08
1855	420323.4	3734594	2.91E-05	1.33E-04	2.91E-07	3.99E-06	1.82E-05	4.33E-08	2.45E-06	8.36E-06	1.01E-08
1856	420314.4	3734578	2.82E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
1857	420311.9	3734569	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.06E-06	9.69E-09
1858	420302	3734534	2.74E-05	1.25E-04	2.74E-07	3.76E-06	1.72E-05	4.08E-08	2.31E-06	7.88E-06	9.48E-09
1859	420299.6	3734525	2.73E-05	1.25E-04	2.72E-07	3.74E-06	1.70E-05	4.06E-08	2.29E-06	7.83E-06	9.42E-09
1860	420274.9	3734436	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.13E-06	7.29E-06	8.77E-09
1861	420272.4	3734427	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.57E-05	3.75E-08	2.12E-06	7.23E-06	8.70E-09
1862	420269.9	3734418	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.18E-06	8.64E-09
1863	420267.5	3734409	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
1864	420454.3	3734724	4.73E-05	2.16E-04	4.73E-07	6.49E-06	2.96E-05	7.05E-08	3.98E-06	1.36E-05	1.64E-08
1865	420462.6	3734729	4.89E-05	2.23E-04	4.88E-07	6.70E-06	3.05E-05	7.27E-08	4.11E-06	1.40E-05	1.69E-08
1866	420471	3734734	5.03E-05	2.30E-04	5.03E-07	6.90E-06	3.15E-05	7.49E-08	4.23E-06	1.45E-05	1.74E-08
1867	420427.6	3734752	3.74E-05	1.71E-04	3.74E-07	5.12E-06	2.34E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
1868	420407.8	3734732	3.57E-05	1.63E-04	3.57E-07	4.89E-06	2.23E-05	5.31E-08	3.00E-06	1.03E-05	1.23E-08
1869	420401.2	3734726	3.51E-05	1.60E-04	3.50E-07	4.81E-06	2.19E-05	5.22E-08	2.95E-06	1.01E-05	1.21E-08
1870	420394.6	3734719	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.89E-06	9.89E-06	1.19E-08
1871	420388	3734713	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.02E-08	2.84E-06	9.69E-06	1.17E-08
1872	420381.4	3734706	3.30E-05	1.51E-04	3.30E-07	4.53E-06	2.06E-05	4.92E-08	2.78E-06	9.49E-06	1.14E-08
1873	420374.8	3734700	3.23E-05	1.48E-04	3.23E-07	4.43E-06	2.02E-05	4.81E-08	2.72E-06	9.29E-06	1.12E-08
1874	420368.2	3734693	3.16E-05	1.45E-04	3.16E-07	4.33E-06	1.98E-05	4.71E-08	2.66E-06	9.08E-06	1.09E-08
1875	420361.6	3734686	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
1876	420355	3734680	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.68E-06	1.04E-08
1877	420348.3	3734673	2.95E-05	1.35E-04	2.95E-07	4.04E-06	1.84E-05	4.39E-08	2.48E-06	8.48E-06	1.02E-08
1878	420341.7	3734667	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.42E-06	8.28E-06	9.96E-09
1879	420335.1	3734660	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.08E-06	9.72E-09
1880	420328.5	3734653	2.75E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
1881	420321.9	3734647	2.68E-05	1.22E-04	2.68E-07	3.67E-06	1.67E-05	3.99E-08	2.25E-06	7.70E-06	9.26E-09
1882	420315.3	3734640	2.61E-05	1.19E-04	2.61E-07	3.58E-06	1.63E-05	3.89E-08	2.20E-06	7.51E-06	9.03E-09
1883	420288.9	3734614	2.35E-05	1.08E-04	2.35E-07	3.23E-06	1.47E-05	3.50E-08	1.98E-06	6.77E-06	8.14E-09
1884	420279.8	3734598	2.29E-05	1.04E-04	2.28E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09

1885	420277.3	3734589	2.28E-05	1.04E-04	2.28E-07	3.12E-06	1.42E-05	3.39E-08	1.92E-06	6.54E-06	7.87E-09
1886	420274.8	3734580	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.38E-08	1.91E-06	6.52E-06	7.84E-09
1887	420272.3	3734571	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.36E-08	1.90E-06	6.49E-06	7.80E-09
1888	420269.8	3734562	2.25E-05	1.03E-04	2.25E-07	3.08E-06	1.41E-05	3.35E-08	1.89E-06	6.46E-06	7.77E-09
1889	420262.4	3734535	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.36E-06	7.64E-09
1890	420259.9	3734526	2.20E-05	1.01E-04	2.20E-07	3.01E-06	1.37E-05	3.27E-08	1.85E-06	6.32E-06	7.60E-09
1891	420257.4	3734518	2.19E-05	9.99E-05	2.18E-07	3.00E-06	1.37E-05	3.25E-08	1.84E-06	6.28E-06	7.55E-09
1892	420254.9	3734509	2.17E-05	9.93E-05	2.17E-07	2.98E-06	1.36E-05	3.23E-08	1.83E-06	6.24E-06	7.51E-09
1893	420252.4	3734500	2.16E-05	9.87E-05	2.16E-07	2.96E-06	1.35E-05	3.21E-08	1.82E-06	6.20E-06	7.46E-09
1894	420249.9	3734491	2.15E-05	9.81E-05	2.14E-07	2.94E-06	1.34E-05	3.19E-08	1.80E-06	6.16E-06	7.41E-09
1895	420247.4	3734482	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.13E-06	7.37E-09
1896	420244.9	3734473	2.12E-05	9.68E-05	2.12E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.09E-06	7.32E-09
1897	420235	3734437	2.06E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
1898	420232.5	3734428	2.05E-05	9.38E-05	2.05E-07	2.81E-06	1.28E-05	3.05E-08	1.73E-06	5.90E-06	7.09E-09
1899	420230	3734419	2.04E-05	9.32E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.86E-06	7.04E-09
1900	420227.5	3734410	2.03E-05	9.26E-05	2.02E-07	2.78E-06	1.27E-05	3.01E-08	1.70E-06	5.82E-06	7.00E-09
1901	420434.2	3734759	3.79E-05	1.73E-04	3.78E-07	5.19E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
1902	420442.5	3734764	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
1903	420450.9	3734768	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.49E-05	5.94E-08	3.35E-06	1.15E-05	1.38E-08
1904	420459.2	3734773	4.09E-05	1.87E-04	4.08E-07	5.60E-06	2.55E-05	6.08E-08	3.44E-06	1.17E-05	1.41E-08
1905	420467.6	3734778	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
1906	420407.5	3734787	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.53E-08	2.56E-06	8.74E-06	1.05E-08
1907	420387.5	3734767	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
1908	420380.9	3734760	2.89E-05	1.32E-04	2.89E-07	3.96E-06	1.81E-05	4.30E-08	2.43E-06	8.30E-06	9.99E-09
1909	420374.2	3734754	2.84E-05	1.30E-04	2.84E-07	3.90E-06	1.78E-05	4.23E-08	2.39E-06	8.17E-06	9.82E-09
1910	420367.5	3734747	2.79E-05	1.28E-04	2.79E-07	3.83E-06	1.75E-05	4.16E-08	2.35E-06	8.03E-06	9.66E-09
1911	420360.9	3734740	2.74E-05	1.26E-04	2.74E-07	3.76E-06	1.72E-05	4.09E-08	2.31E-06	7.89E-06	9.49E-09
1912	420354.2	3734734	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
1913	420347.6	3734727	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.12E-09
1914	420340.9	3734720	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.43E-06	8.94E-09
1915	420334.3	3734714	2.53E-05	1.16E-04	2.53E-07	3.47E-06	1.58E-05	3.77E-08	2.13E-06	7.28E-06	8.76E-09
1916	420327.6	3734707	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.13E-06	8.58E-09
1917	420321	3734701	2.43E-05	1.11E-04	2.43E-07	3.33E-06	1.52E-05	3.62E-08	2.05E-06	6.99E-06	8.40E-09
1918	420314.3	3734694	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.84E-06	8.23E-09
1919	420294.3	3734674	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.70E-09
1920	420287.7	3734667	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.83E-06	6.27E-06	7.53E-09
1921	420281	3734661	2.13E-05	9.75E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.13E-06	7.37E-09
1922	420274.4	3734654	2.08E-05	9.53E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
1923	420267.7	3734647	2.04E-05	9.31E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1924	420261.1	3734641	1.99E-05	9.09E-05	1.99E-07	2.72E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
1925	420254.4	3734634	1.94E-05	8.87E-05	1.94E-07	2.66E-06	1.21E-05	2.89E-08	1.63E-06	5.57E-06	6.70E-09
1926	420245.3	3734618	1.89E-05	8.63E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.52E-09
1927	420242.7	3734609	1.88E-05	8.60E-05	1.88E-07	2.58E-06	1.18E-05	2.80E-08	1.58E-06	5.40E-06	6.50E-09
1928	420240.2	3734600	1.87E-05	8.57E-05	1.87E-07	2.57E-06	1.17E-05	2.79E-08	1.58E-06	5.38E-06	6.48E-09
1929	420237.7	3734591	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
1930	420235.2	3734582	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
1931	420232.7	3734573	1.85E-05	8.47E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.32E-06	6.40E-09
1932	420230.2	3734564	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
1933	420222.7	3734537	1.82E-05	8.30E-05	1.81E-07	2.49E-06	1.13E-05	2.70E-08	1.53E-06	5.22E-06	6.27E-09
1934	420220.2	3734528	1.81E-05	8.25E-05	1.80E-07	2.47E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.24E-09
1935	420217.6	3734519	1.80E-05	8.21E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
1936	420215.1	3734510	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
1937	420212.6	3734501	1.78E-05	8.12E-05	1.78E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.10E-06	6.14E-09
1938	420210.1	3734492	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
1939	420207.6	3734483	1.76E-05	8.04E-05	1.76E-07	2.41E-06	1.10E-05	2.62E-08	1.48E-06	5.05E-06	6.08E-09
1940	420205.1	3734474	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.60E-08	1.47E-06	5.03E-06	6.05E-09
1941	420202.6	3734465	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
1942	420195	3734437	1.71E-05	7.82E-05	1.71E-07	2.35E-06	1.07E-05	2.55E-08	1.44E-06	4.92E-06	5.91E-09
1943	420192.5	3734428	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09

1944	420190	3734419	1.69E-05	7.74E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.85E-09
1945	420187.5	3734410	1.68E-05	7.69E-05	1.68E-07	2.31E-06	1.05E-05	2.50E-08	1.42E-06	4.83E-06	5.81E-09
1946	420414.1	3734793	3.08E-05	1.41E-04	3.07E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
1947	420422.5	3734798	3.15E-05	1.44E-04	3.14E-07	4.31E-06	1.97E-05	4.68E-08	2.65E-06	9.04E-06	1.09E-08
1948	420430.8	3734803	3.22E-05	1.47E-04	3.21E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.24E-06	1.11E-08
1949	420439.2	3734808	3.28E-05	1.50E-04	3.28E-07	4.50E-06	2.05E-05	4.89E-08	2.76E-06	9.44E-06	1.13E-08
1950	420447.5	3734813	3.35E-05	1.53E-04	3.35E-07	4.59E-06	2.09E-05	4.99E-08	2.82E-06	9.62E-06	1.16E-08
1951	420367.3	3734801	2.44E-05	1.12E-04	2.44E-07	3.34E-06	1.53E-05	3.63E-08	2.05E-06	7.01E-06	8.43E-09
1952	420360.6	3734795	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.59E-08	2.03E-06	6.92E-06	8.33E-09
1953	420353.9	3734788	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
1954	420313.7	3734748	2.15E-05	9.84E-05	2.15E-07	2.95E-06	1.35E-05	3.20E-08	1.81E-06	6.19E-06	7.44E-09
1955	420293.6	3734728	2.03E-05	9.30E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.03E-09
1956	420286.9	3734721	2.00E-05	9.13E-05	2.00E-07	2.74E-06	1.25E-05	2.97E-08	1.68E-06	5.74E-06	6.90E-09
1957	420280.2	3734714	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.76E-09
1958	420273.5	3734708	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.61E-06	5.52E-06	6.63E-09
1959	420266.8	3734701	1.88E-05	8.60E-05	1.88E-07	2.58E-06	1.18E-05	2.80E-08	1.58E-06	5.41E-06	6.50E-09
1960	420260.1	3734694	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
1961	420253.4	3734688	1.81E-05	8.26E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.24E-09
1962	420246.7	3734681	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
1963	420240	3734674	1.73E-05	7.92E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.99E-09
1964	420233.3	3734668	1.70E-05	7.75E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.43E-06	4.87E-06	5.86E-09
1965	420226.6	3734661	1.66E-05	7.59E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.73E-09
1966	420219.9	3734654	1.62E-05	7.42E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.66E-06	5.61E-09
1967	420200.6	3734602	1.57E-05	7.16E-05	1.57E-07	2.15E-06	9.79E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
1968	420198.1	3734593	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
1969	420195.5	3734584	1.55E-05	7.10E-05	1.55E-07	2.13E-06	9.71E-06	2.31E-08	1.31E-06	4.46E-06	5.37E-09
1970	420193	3734575	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
1971	420190.5	3734566	1.54E-05	7.03E-05	1.54E-07	2.11E-06	9.62E-06	2.29E-08	1.29E-06	4.42E-06	5.32E-09
1972	420182.9	3734538	1.52E-05	6.93E-05	1.52E-07	2.08E-06	9.48E-06	2.26E-08	1.28E-06	4.36E-06	5.24E-09
1973	420180.4	3734529	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.44E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
1974	420177.9	3734520	1.50E-05	6.87E-05	1.50E-07	2.06E-06	9.39E-06	2.24E-08	1.26E-06	4.32E-06	5.19E-09
1975	420175.3	3734511	1.50E-05	6.84E-05	1.50E-07	2.05E-06	9.35E-06	2.23E-08	1.26E-06	4.30E-06	5.17E-09
1976	420172.8	3734502	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.31E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
1977	420170.3	3734493	1.48E-05	6.77E-05	1.48E-07	2.03E-06	9.26E-06	2.21E-08	1.25E-06	4.26E-06	5.12E-09
1978	420167.7	3734484	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
1979	420165.2	3734475	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.18E-06	2.19E-08	1.24E-06	4.22E-06	5.07E-09
1980	420155.1	3734438	1.44E-05	6.59E-05	1.44E-07	1.97E-06	9.01E-06	2.14E-08	1.21E-06	4.14E-06	4.98E-09
1981	420152.6	3734429	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
1982	420150.1	3734420	1.43E-05	6.52E-05	1.43E-07	1.95E-06	8.91E-06	2.12E-08	1.20E-06	4.10E-06	4.93E-09
1983	420147.5	3734411	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
1984	420394.1	3734828	2.54E-05	1.16E-04	2.54E-07	3.48E-06	1.59E-05	3.78E-08	2.14E-06	7.30E-06	8.77E-09
1985	420402.4	3734833	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.86E-08	2.18E-06	7.44E-06	8.95E-09
1986	420410.7	3734838	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.58E-06	9.12E-09
1987	420419.1	3734843	2.69E-05	1.23E-04	2.69E-07	3.68E-06	1.68E-05	4.00E-08	2.26E-06	7.72E-06	9.29E-09
1988	420427.4	3734847	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.85E-06	9.44E-09
1989	420353.8	3734842	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.16E-09
1990	420347	3734836	2.05E-05	9.39E-05	2.05E-07	2.82E-06	1.28E-05	3.06E-08	1.73E-06	5.90E-06	7.10E-09
1991	420340.3	3734829	2.03E-05	9.29E-05	2.03E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.84E-06	7.02E-09
1992	420333.6	3734822	2.01E-05	9.17E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.76E-06	6.93E-09
1993	420326.8	3734816	1.98E-05	9.06E-05	1.98E-07	2.72E-06	1.24E-05	2.95E-08	1.67E-06	5.69E-06	6.85E-09
1994	420320.1	3734809	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.76E-09
1995	420313.4	3734802	1.93E-05	8.83E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
1996	420306.6	3734795	1.90E-05	8.69E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
1997	420299.9	3734789	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
1998	420293.2	3734782	1.84E-05	8.41E-05	1.84E-07	2.52E-06	1.15E-05	2.74E-08	1.55E-06	5.28E-06	6.35E-09
1999	420286.4	3734775	1.81E-05	8.27E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
2000	420266.2	3734755	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.95E-06	5.96E-09
2001	420239.3	3734728	1.61E-05	7.34E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.55E-09
2002	420232.6	3734722	1.58E-05	7.21E-05	1.58E-07	2.16E-06	9.86E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09

2003	420225.8	3734715	1.55E-05	7.08E-05	1.55E-07	2.12E-06	9.68E-06	2.30E-08	1.30E-06	4.45E-06	5.35E-09
2004	420219.1	3734708	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
2005	420198.9	3734688	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
2006	420192.2	3734681	1.40E-05	6.42E-05	1.40E-07	1.93E-06	8.78E-06	2.09E-08	1.18E-06	4.04E-06	4.85E-09
2007	420185.4	3734675	1.38E-05	6.29E-05	1.38E-07	1.89E-06	8.60E-06	2.05E-08	1.16E-06	3.95E-06	4.76E-09
2008	420176.2	3734659	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.42E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
2009	420173.6	3734650	1.34E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.86E-06	4.65E-09
2010	420171.1	3734640	1.34E-05	6.14E-05	1.34E-07	1.84E-06	8.39E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
2011	420168.5	3734631	1.34E-05	6.12E-05	1.34E-07	1.84E-06	8.37E-06	1.99E-08	1.13E-06	3.85E-06	4.63E-09
2012	420166	3734622	1.34E-05	6.11E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
2013	420163.4	3734613	1.33E-05	6.08E-05	1.33E-07	1.82E-06	8.32E-06	1.98E-08	1.12E-06	3.82E-06	4.60E-09
2014	420160.9	3734604	1.33E-05	6.06E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
2015	420158.4	3734595	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.56E-09
2016	420155.8	3734585	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
2017	420153.3	3734576	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
2018	420150.7	3734567	1.30E-05	5.96E-05	1.30E-07	1.79E-06	8.15E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2019	420140.6	3734530	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
2020	420138	3734521	1.27E-05	5.82E-05	1.27E-07	1.75E-06	7.96E-06	1.90E-08	1.07E-06	3.66E-06	4.40E-09
2021	420135.5	3734512	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
2022	420133	3734503	1.26E-05	5.77E-05	1.26E-07	1.73E-06	7.89E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
2023	420130.4	3734494	1.26E-05	5.74E-05	1.26E-07	1.72E-06	7.85E-06	1.87E-08	1.06E-06	3.61E-06	4.34E-09
2024	420127.9	3734485	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
2025	420125.3	3734475	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.79E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
2026	420115.2	3734439	1.23E-05	5.61E-05	1.23E-07	1.68E-06	7.67E-06	1.83E-08	1.03E-06	3.53E-06	4.24E-09
2027	420112.6	3734430	1.22E-05	5.59E-05	1.22E-07	1.68E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.23E-09
2028	420110.1	3734420	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
2029	420107.5	3734411	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.19E-09
2030	420374	3734863	2.11E-05	9.67E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.08E-06	7.31E-09
2031	420382.3	3734867	2.15E-05	9.82E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
2032	420390.7	3734872	2.18E-05	9.97E-05	2.18E-07	2.99E-06	1.36E-05	3.24E-08	1.83E-06	6.26E-06	7.53E-09
2033	420399	3734877	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.36E-06	7.65E-09
2034	420407.4	3734882	2.25E-05	1.03E-04	2.25E-07	3.08E-06	1.41E-05	3.35E-08	1.89E-06	6.46E-06	7.77E-09
2035	420333.6	3734877	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.07E-06	6.09E-09
2036	420326.8	3734870	1.75E-05	8.01E-05	1.75E-07	2.40E-06	1.10E-05	2.61E-08	1.47E-06	5.04E-06	6.06E-09
2037	420320.1	3734863	1.74E-05	7.96E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2038	420313.3	3734857	1.73E-05	7.89E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.97E-09
2039	420306.5	3734850	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
2040	420299.8	3734843	1.69E-05	7.72E-05	1.69E-07	2.31E-06	1.06E-05	2.51E-08	1.42E-06	4.85E-06	5.84E-09
2041	420293	3734836	1.67E-05	7.63E-05	1.67E-07	2.29E-06	1.04E-05	2.48E-08	1.40E-06	4.79E-06	5.77E-09
2042	420286.2	3734830	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.68E-09
2043	420279.5	3734823	1.62E-05	7.40E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.65E-06	5.59E-09
2044	420272.7	3734816	1.59E-05	7.29E-05	1.59E-07	2.19E-06	9.97E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
2045	420265.9	3734810	1.57E-05	7.20E-05	1.57E-07	2.16E-06	9.84E-06	2.34E-08	1.32E-06	4.52E-06	5.44E-09
2046	420245.6	3734789	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.43E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
2047	420238.9	3734783	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
2048	420232.1	3734776	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
2049	420225.3	3734769	1.44E-05	6.56E-05	1.44E-07	1.97E-06	8.98E-06	2.14E-08	1.21E-06	4.13E-06	4.96E-09
2050	420218.6	3734762	1.41E-05	6.45E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2051	420211.8	3734756	1.39E-05	6.35E-05	1.39E-07	1.90E-06	8.68E-06	2.07E-08	1.17E-06	3.99E-06	4.80E-09
2052	420184.8	3734729	1.29E-05	5.92E-05	1.29E-07	1.77E-06	8.09E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
2053	420178	3734722	1.27E-05	5.81E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2054	420171.2	3734715	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
2055	420164.5	3734708	1.23E-05	5.61E-05	1.23E-07	1.68E-06	7.67E-06	1.83E-08	1.03E-06	3.52E-06	4.24E-09
2056	420157.7	3734702	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.53E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
2057	420150.9	3734695	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
2058	420141.6	3734679	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2059	420139	3734670	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.24E-06	1.72E-08	9.74E-07	3.33E-06	4.00E-09
2060	420136.5	3734660	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
2061	420133.9	3734651	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09

2062	420131.4	3734642	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.20E-06	1.71E-08	9.69E-07	3.31E-06	3.98E-09
2063	420128.8	3734633	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
2064	420126.3	3734624	1.14E-05	5.23E-05	1.14E-07	1.57E-06	7.16E-06	1.70E-08	9.63E-07	3.29E-06	3.95E-09
2065	420123.7	3734614	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2066	420121.2	3734605	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.10E-06	1.69E-08	9.56E-07	3.27E-06	3.93E-09
2067	420118.6	3734596	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
2068	420116.1	3734587	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.05E-06	1.68E-08	9.49E-07	3.24E-06	3.90E-09
2069	420113.5	3734578	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.45E-07	3.23E-06	3.88E-09
2070	420111	3734568	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.67E-08	9.41E-07	3.21E-06	3.87E-09
2071	420100.8	3734532	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
2072	420098.2	3734522	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.59E-08	8.96E-07	3.06E-06	3.68E-09
2073	420095.6	3734513	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2074	420093.1	3734504	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.86E-07	3.03E-06	3.64E-09
2075	420090.5	3734495	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.02E-06	3.63E-09
2076	420088	3734486	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
2077	420085.4	3734476	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2078	420082.9	3734467	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.77E-07	2.99E-06	3.60E-09
2079	420075.2	3734439	1.05E-05	4.79E-05	1.05E-07	1.44E-06	6.55E-06	1.56E-08	8.82E-07	3.01E-06	3.62E-09
2080	420072.7	3734430	1.05E-05	4.82E-05	1.05E-07	1.44E-06	6.59E-06	1.57E-08	8.86E-07	3.03E-06	3.64E-09
2081	420070.1	3734421	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.57E-06	1.56E-08	8.84E-07	3.02E-06	3.63E-09
2082	420067.6	3734412	1.05E-05	4.79E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.81E-07	3.01E-06	3.62E-09
2083	420353.9	3734897	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
2084	420362.3	3734902	1.81E-05	8.28E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.20E-06	6.25E-09
2085	420370.6	3734907	1.84E-05	8.39E-05	1.83E-07	2.52E-06	1.15E-05	2.73E-08	1.54E-06	5.28E-06	6.34E-09
2086	420378.9	3734912	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
2087	420387.3	3734917	1.89E-05	8.62E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.52E-09
2088	420313.5	3734911	1.53E-05	6.99E-05	1.53E-07	2.10E-06	9.56E-06	2.28E-08	1.29E-06	4.39E-06	5.28E-09
2089	420306.7	3734905	1.52E-05	6.94E-05	1.52E-07	2.08E-06	9.49E-06	2.26E-08	1.28E-06	4.36E-06	5.25E-09
2090	420299.9	3734898	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.42E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
2091	420293.1	3734891	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
2092	420286.3	3734884	1.48E-05	6.77E-05	1.48E-07	2.03E-06	9.26E-06	2.21E-08	1.25E-06	4.26E-06	5.12E-09
2093	420279.5	3734878	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.17E-06	2.18E-08	1.23E-06	4.21E-06	5.07E-09
2094	420272.7	3734871	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.17E-06	5.02E-09
2095	420265.9	3734864	1.44E-05	6.56E-05	1.43E-07	1.97E-06	8.97E-06	2.14E-08	1.21E-06	4.12E-06	4.96E-09
2096	420259.1	3734857	1.42E-05	6.49E-05	1.42E-07	1.94E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
2097	420252.3	3734851	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.75E-06	2.08E-08	1.18E-06	4.02E-06	4.84E-09
2098	420231.9	3734830	1.35E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.87E-06	4.65E-09
2099	420225.1	3734823	1.33E-05	6.06E-05	1.33E-07	1.82E-06	8.29E-06	1.97E-08	1.12E-06	3.81E-06	4.58E-09
2100	420218.3	3734817	1.31E-05	5.98E-05	1.31E-07	1.79E-06	8.18E-06	1.95E-08	1.10E-06	3.76E-06	4.52E-09
2101	420211.5	3734810	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
2102	420204.7	3734803	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2103	420197.9	3734796	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.32E-09
2104	420191.1	3734790	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2105	420184.4	3734783	1.21E-05	5.54E-05	1.21E-07	1.66E-06	7.57E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2106	420177.6	3734776	1.19E-05	5.45E-05	1.19E-07	1.63E-06	7.45E-06	1.77E-08	1.00E-06	3.42E-06	4.12E-09
2107	420170.8	3734769	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.74E-08	9.86E-07	3.37E-06	4.05E-09
2108	420164	3734762	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.70E-07	3.31E-06	3.98E-09
2109	420130	3734729	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
2110	420123.2	3734722	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2111	420116.4	3734715	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.42E-06	1.53E-08	8.64E-07	2.95E-06	3.55E-09
2112	420107.1	3734699	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.48E-09
2113	420104.5	3734690	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
2114	420101.9	3734681	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
2115	420099.4	3734671	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.50E-08	8.45E-07	2.89E-06	3.47E-09
2116	420096.8	3734662	1.00E-05	4.58E-05	1.00E-07	1.37E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.46E-09
2117	420094.2	3734653	1.00E-05	4.57E-05	1.00E-07	1.37E-06	6.25E-06	1.49E-08	8.42E-07	2.87E-06	3.46E-09
2118	420091.7	3734644	9.98E-06	4.56E-05	9.98E-08	1.37E-06	6.24E-06	1.49E-08	8.40E-07	2.87E-06	3.45E-09
2119	420089.1	3734634	9.95E-06	4.55E-05	9.95E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
2120	420086.5	3734625	9.92E-06	4.53E-05	9.91E-08	1.36E-06	6.20E-06	1.48E-08	8.34E-07	2.85E-06	3.43E-09

2121	420084	3734616	9.89E-06	4.52E-05	9.88E-08	1.36E-06	6.18E-06	1.47E-08	8.32E-07	2.84E-06	3.42E-09
2122	420081.4	3734607	9.85E-06	4.50E-05	9.84E-08	1.35E-06	6.16E-06	1.47E-08	8.29E-07	2.83E-06	3.40E-09
2123	420078.8	3734597	9.82E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2124	420076.3	3734588	9.78E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
2125	420073.7	3734579	9.74E-06	4.46E-05	9.74E-08	1.34E-06	6.09E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
2126	420071.2	3734570	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
2127	420060.9	3734533	9.32E-06	4.26E-05	9.32E-08	1.28E-06	5.83E-06	1.39E-08	7.84E-07	2.68E-06	3.22E-09
2128	420058.3	3734523	9.21E-06	4.21E-05	9.20E-08	1.26E-06	5.76E-06	1.37E-08	7.75E-07	2.65E-06	3.18E-09
2129	420055.8	3734514	9.14E-06	4.18E-05	9.14E-08	1.25E-06	5.71E-06	1.36E-08	7.69E-07	2.63E-06	3.16E-09
2130	420053.2	3734505	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
2131	420050.6	3734496	9.05E-06	4.14E-05	9.05E-08	1.24E-06	5.66E-06	1.35E-08	7.62E-07	2.60E-06	3.13E-09
2132	420048.1	3734486	9.02E-06	4.13E-05	9.02E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
2133	420045.5	3734477	9.02E-06	4.12E-05	9.01E-08	1.24E-06	5.64E-06	1.34E-08	7.59E-07	2.59E-06	3.12E-09
2134	420043	3734468	9.01E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
2135	420035.3	3734440	9.07E-06	4.15E-05	9.06E-08	1.24E-06	5.67E-06	1.35E-08	7.63E-07	2.61E-06	3.13E-09
2136	420032.7	3734431	9.10E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.66E-07	2.61E-06	3.14E-09
2137	420030.1	3734422	9.13E-06	4.17E-05	9.12E-08	1.25E-06	5.71E-06	1.36E-08	7.68E-07	2.62E-06	3.15E-09
2138	420027.6	3734412	9.15E-06	4.18E-05	9.14E-08	1.25E-06	5.72E-06	1.36E-08	7.70E-07	2.63E-06	3.16E-09
2139	420306.9	3734960	1.34E-05	6.14E-05	1.34E-07	1.84E-06	8.40E-06	2.00E-08	1.13E-06	3.86E-06	4.64E-09
2140	420300.1	3734953	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
2141	420293.3	3734946	1.33E-05	6.08E-05	1.33E-07	1.82E-06	8.32E-06	1.98E-08	1.12E-06	3.82E-06	4.60E-09
2142	420286.5	3734939	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
2143	420279.7	3734932	1.31E-05	6.00E-05	1.31E-07	1.80E-06	8.21E-06	1.95E-08	1.10E-06	3.77E-06	4.54E-09
2144	420272.8	3734926	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
2145	420266	3734919	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
2146	420259.2	3734912	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.91E-08	1.08E-06	3.68E-06	4.42E-09
2147	420252.4	3734905	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.65E-06	4.39E-09
2148	420197.8	3734851	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.72E-07	3.32E-06	3.99E-09
2149	420191	3734844	1.14E-05	5.22E-05	1.14E-07	1.57E-06	7.14E-06	1.70E-08	9.61E-07	3.28E-06	3.95E-09
2150	420184.2	3734837	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.05E-06	1.68E-08	9.49E-07	3.24E-06	3.90E-09
2151	420177.4	3734830	1.11E-05	5.09E-05	1.11E-07	1.52E-06	6.95E-06	1.66E-08	9.36E-07	3.20E-06	3.84E-09
2152	420170.6	3734824	1.10E-05	5.01E-05	1.10E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
2153	420163.7	3734817	1.08E-05	4.94E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.09E-07	3.10E-06	3.73E-09
2154	420156.9	3734810	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.59E-08	8.96E-07	3.06E-06	3.68E-09
2155	420150.1	3734803	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.01E-06	3.63E-09
2156	420143.3	3734796	1.03E-05	4.73E-05	1.03E-07	1.42E-06	6.46E-06	1.54E-08	8.70E-07	2.97E-06	3.57E-09
2157	420136.5	3734790	1.02E-05	4.66E-05	1.02E-07	1.40E-06	6.37E-06	1.52E-08	8.57E-07	2.93E-06	3.52E-09
2158	420116	3734769	9.73E-06	4.45E-05	9.73E-08	1.33E-06	6.08E-06	1.45E-08	8.19E-07	2.80E-06	3.36E-09
2159	420109.2	3734762	9.59E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
2160	420102.4	3734756	9.44E-06	4.32E-05	9.44E-08	1.29E-06	5.90E-06	1.41E-08	7.94E-07	2.71E-06	3.26E-09
2161	420072.5	3734719	8.77E-06	4.01E-05	8.76E-08	1.20E-06	5.48E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
2162	420069.9	3734710	8.74E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2163	420067.4	3734701	8.69E-06	3.98E-05	8.69E-08	1.19E-06	5.44E-06	1.29E-08	7.32E-07	2.50E-06	3.00E-09
2164	420064.8	3734691	8.71E-06	3.98E-05	8.70E-08	1.19E-06	5.44E-06	1.30E-08	7.33E-07	2.50E-06	3.01E-09
2165	420062.2	3734682	8.73E-06	3.99E-05	8.72E-08	1.20E-06	5.46E-06	1.30E-08	7.34E-07	2.51E-06	3.02E-09
2166	420059.6	3734673	8.74E-06	4.00E-05	8.74E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.51E-06	3.02E-09
2167	420057.1	3734663	8.78E-06	4.01E-05	8.77E-08	1.20E-06	5.49E-06	1.31E-08	7.38E-07	2.52E-06	3.03E-09
2168	420054.5	3734654	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2169	420051.9	3734645	8.74E-06	3.99E-05	8.73E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2170	420049.3	3734636	8.71E-06	3.98E-05	8.71E-08	1.19E-06	5.45E-06	1.30E-08	7.33E-07	2.50E-06	3.01E-09
2171	420046.8	3734626	8.69E-06	3.97E-05	8.68E-08	1.19E-06	5.43E-06	1.29E-08	7.31E-07	2.50E-06	3.00E-09
2172	420044.2	3734617	8.66E-06	3.96E-05	8.65E-08	1.19E-06	5.41E-06	1.29E-08	7.28E-07	2.49E-06	2.99E-09
2173	420041.6	3734608	8.63E-06	3.94E-05	8.62E-08	1.18E-06	5.39E-06	1.28E-08	7.26E-07	2.48E-06	2.98E-09
2174	420039.1	3734599	8.60E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
2175	420036.5	3734589	8.56E-06	3.92E-05	8.56E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2176	420033.9	3734580	8.53E-06	3.90E-05	8.53E-08	1.17E-06	5.33E-06	1.27E-08	7.18E-07	2.45E-06	2.95E-09
2177	420031.3	3734571	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.31E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
2178	420021	3734534	8.22E-06	3.76E-05	8.21E-08	1.13E-06	5.14E-06	1.22E-08	6.91E-07	2.36E-06	2.84E-09
2179	420018.5	3734524	8.13E-06	3.72E-05	8.13E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09

2180	420015.9	3734515	8.07E-06	3.69E-05	8.07E-08	1.11E-06	5.05E-06	1.20E-08	6.79E-07	2.32E-06	2.79E-09
2181	420013.3	3734506	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2182	420010.7	3734496	8.01E-06	3.66E-05	8.00E-08	1.10E-06	5.01E-06	1.19E-08	6.74E-07	2.30E-06	2.77E-09
2183	420008.2	3734487	7.99E-06	3.65E-05	7.98E-08	1.09E-06	4.99E-06	1.19E-08	6.72E-07	2.29E-06	2.76E-09
2184	420005.6	3734478	7.97E-06	3.65E-05	7.97E-08	1.09E-06	4.98E-06	1.19E-08	6.71E-07	2.29E-06	2.75E-09
2185	420003	3734469	7.96E-06	3.64E-05	7.95E-08	1.09E-06	4.98E-06	1.18E-08	6.70E-07	2.29E-06	2.75E-09
2186	419995.3	3734441	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
2187	419992.7	3734431	8.10E-06	3.70E-05	8.10E-08	1.11E-06	5.06E-06	1.21E-08	6.81E-07	2.33E-06	2.80E-09
2188	419990.2	3734422	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
2189	419987.6	3734413	8.08E-06	3.69E-05	8.08E-08	1.11E-06	5.05E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
2190	420313.8	3734966	1.35E-05	6.16E-05	1.35E-07	1.85E-06	8.43E-06	2.01E-08	1.13E-06	3.87E-06	4.66E-09
2191	420322.1	3734971	1.36E-05	6.24E-05	1.36E-07	1.87E-06	8.53E-06	2.03E-08	1.15E-06	3.92E-06	4.71E-09
2192	420330.4	3734976	1.38E-05	6.31E-05	1.38E-07	1.89E-06	8.63E-06	2.05E-08	1.16E-06	3.97E-06	4.77E-09
2193	420338.8	3734981	1.39E-05	6.38E-05	1.39E-07	1.91E-06	8.72E-06	2.08E-08	1.17E-06	4.01E-06	4.82E-09
2194	420347.1	3734986	1.41E-05	6.45E-05	1.41E-07	1.93E-06	8.82E-06	2.10E-08	1.19E-06	4.05E-06	4.87E-09
2195	420287	3734994	1.17E-05	5.37E-05	1.17E-07	1.61E-06	7.34E-06	1.75E-08	9.88E-07	3.37E-06	4.06E-09
2196	420280.4	3734988	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.32E-06	1.74E-08	9.85E-07	3.36E-06	4.04E-09
2197	420273.7	3734981	1.17E-05	5.33E-05	1.16E-07	1.60E-06	7.29E-06	1.73E-08	9.80E-07	3.35E-06	4.03E-09
2198	420267	3734974	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2199	420260.4	3734968	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
2200	420253.7	3734961	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
2201	420247.1	3734955	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2202	420240.4	3734948	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.08E-06	1.69E-08	9.53E-07	3.25E-06	3.91E-09
2203	420233.7	3734941	1.12E-05	5.14E-05	1.12E-07	1.54E-06	7.03E-06	1.67E-08	9.46E-07	3.23E-06	3.89E-09
2204	420227.1	3734935	1.12E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.21E-06	3.85E-09
2205	420220.4	3734928	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.91E-06	1.65E-08	9.30E-07	3.18E-06	3.82E-09
2206	420213.7	3734921	1.10E-05	5.01E-05	1.09E-07	1.50E-06	6.85E-06	1.63E-08	9.22E-07	3.15E-06	3.79E-09
2207	420207.1	3734915	1.08E-05	4.96E-05	1.08E-07	1.49E-06	6.78E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2208	420200.4	3734908	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.03E-07	3.08E-06	3.71E-09
2209	420193.8	3734901	1.06E-05	4.85E-05	1.06E-07	1.45E-06	6.64E-06	1.58E-08	8.93E-07	3.05E-06	3.67E-09
2210	420187.1	3734895	1.05E-05	4.80E-05	1.05E-07	1.44E-06	6.56E-06	1.56E-08	8.83E-07	3.02E-06	3.63E-09
2211	420180.4	3734888	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
2212	420173.8	3734881	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.95E-06	3.55E-09
2213	420167.1	3734875	1.02E-05	4.65E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
2214	420160.5	3734868	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
2215	420153.8	3734862	9.90E-06	4.53E-05	9.90E-08	1.36E-06	6.19E-06	1.47E-08	8.33E-07	2.85E-06	3.42E-09
2216	420147.1	3734855	9.79E-06	4.47E-05	9.78E-08	1.34E-06	6.12E-06	1.46E-08	8.23E-07	2.81E-06	3.38E-09
2217	420140.5	3734848	9.66E-06	4.42E-05	9.66E-08	1.32E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
2218	420093.8	3734802	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2219	420087.2	3734795	8.67E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
2220	420080.5	3734788	8.55E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2221	420073.8	3734782	8.44E-06	3.86E-05	8.43E-08	1.16E-06	5.27E-06	1.26E-08	7.10E-07	2.42E-06	2.92E-09
2222	420067.2	3734775	8.32E-06	3.81E-05	8.32E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.88E-09
2223	420060.5	3734769	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.83E-09
2224	420053.9	3734762	8.09E-06	3.70E-05	8.08E-08	1.11E-06	5.06E-06	1.20E-08	6.80E-07	2.32E-06	2.79E-09
2225	420047.2	3734755	7.97E-06	3.65E-05	7.97E-08	1.09E-06	4.98E-06	1.19E-08	6.71E-07	2.29E-06	2.75E-09
2226	420035.5	3734730	7.78E-06	3.56E-05	7.77E-08	1.07E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.69E-09
2227	420033	3734721	7.75E-06	3.54E-05	7.74E-08	1.06E-06	4.84E-06	1.15E-08	6.52E-07	2.23E-06	2.68E-09
2228	420030.5	3734712	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2229	420028	3734703	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
2230	420025.5	3734694	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2231	420022.9	3734685	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2232	420020.4	3734676	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2233	420017.9	3734667	7.69E-06	3.51E-05	7.68E-08	1.05E-06	4.81E-06	1.14E-08	6.47E-07	2.21E-06	2.66E-09
2234	420015.4	3734658	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2235	420012.9	3734649	7.72E-06	3.53E-05	7.71E-08	1.06E-06	4.83E-06	1.15E-08	6.49E-07	2.22E-06	2.67E-09
2236	420010.4	3734640	7.70E-06	3.52E-05	7.70E-08	1.06E-06	4.81E-06	1.15E-08	6.48E-07	2.21E-06	2.66E-09
2237	420007.9	3734631	7.68E-06	3.51E-05	7.67E-08	1.05E-06	4.80E-06	1.14E-08	6.46E-07	2.21E-06	2.65E-09
2238	420005.3	3734622	7.65E-06	3.50E-05	7.65E-08	1.05E-06	4.79E-06	1.14E-08	6.44E-07	2.20E-06	2.64E-09

2239	420002.8	3734613	7.63E-06	3.49E-05	7.63E-08	1.05E-06	4.77E-06	1.14E-08	6.42E-07	2.19E-06	2.64E-09
2240	420000.3	3734604	7.61E-06	3.48E-05	7.60E-08	1.04E-06	4.76E-06	1.13E-08	6.40E-07	2.19E-06	2.63E-09
2241	419997.8	3734594	7.58E-06	3.47E-05	7.58E-08	1.04E-06	4.74E-06	1.13E-08	6.38E-07	2.18E-06	2.62E-09
2242	419995.3	3734585	7.56E-06	3.46E-05	7.55E-08	1.04E-06	4.73E-06	1.13E-08	6.36E-07	2.17E-06	2.61E-09
2243	419992.8	3734576	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
2244	419990.3	3734567	7.51E-06	3.43E-05	7.50E-08	1.03E-06	4.69E-06	1.12E-08	6.32E-07	2.16E-06	2.59E-09
2245	419982.7	3734540	7.44E-06	3.40E-05	7.44E-08	1.02E-06	4.65E-06	1.11E-08	6.26E-07	2.14E-06	2.57E-09
2246	419980.2	3734531	7.42E-06	3.39E-05	7.41E-08	1.02E-06	4.64E-06	1.10E-08	6.24E-07	2.13E-06	2.56E-09
2247	419977.7	3734522	7.40E-06	3.39E-05	7.40E-08	1.01E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
2248	419975.2	3734513	7.39E-06	3.38E-05	7.38E-08	1.01E-06	4.62E-06	1.10E-08	6.21E-07	2.12E-06	2.55E-09
2249	419972.7	3734504	7.34E-06	3.35E-05	7.33E-08	1.01E-06	4.59E-06	1.09E-08	6.17E-07	2.11E-06	2.54E-09
2250	419970.2	3734495	7.29E-06	3.33E-05	7.28E-08	9.99E-07	4.56E-06	1.08E-08	6.13E-07	2.09E-06	2.52E-09
2251	419967.6	3734486	7.26E-06	3.32E-05	7.25E-08	9.95E-07	4.54E-06	1.08E-08	6.11E-07	2.09E-06	2.51E-09
2252	419965.1	3734477	7.25E-06	3.32E-05	7.25E-08	9.94E-07	4.54E-06	1.08E-08	6.10E-07	2.08E-06	2.51E-09
2253	419962.6	3734468	7.25E-06	3.31E-05	7.24E-08	9.93E-07	4.53E-06	1.08E-08	6.10E-07	2.08E-06	2.50E-09
2254	419955.1	3734440	7.25E-06	3.31E-05	7.25E-08	9.94E-07	4.53E-06	1.08E-08	6.10E-07	2.08E-06	2.51E-09
2255	419952.6	3734431	7.24E-06	3.31E-05	7.23E-08	9.92E-07	4.52E-06	1.08E-08	6.09E-07	2.08E-06	2.50E-09
2256	419950	3734422	7.22E-06	3.30E-05	7.21E-08	9.89E-07	4.51E-06	1.07E-08	6.07E-07	2.07E-06	2.49E-09
2257	419947.5	3734413	7.20E-06	3.29E-05	7.20E-08	9.87E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
2258	420293.7	3735001	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
2259	420302	3735006	1.19E-05	5.45E-05	1.19E-07	1.63E-06	7.45E-06	1.77E-08	1.00E-06	3.42E-06	4.12E-09
2260	420310.4	3735011	1.21E-05	5.52E-05	1.21E-07	1.65E-06	7.54E-06	1.80E-08	1.01E-06	3.47E-06	4.17E-09
2261	420318.7	3735016	1.22E-05	5.57E-05	1.22E-07	1.67E-06	7.62E-06	1.81E-08	1.03E-06	3.50E-06	4.21E-09
2262	420327.1	3735020	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2263	420608.1	3734421	6.39E-04	2.92E-03	6.39E-06	8.77E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
2264	420577.7	3734437	4.01E-04	1.83E-03	4.00E-06	5.49E-05	2.50E-04	5.96E-07	3.37E-05	1.15E-04	1.38E-07
2265	420538.4	3734411	2.20E-04	1.00E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.59E-08
2266	420518.4	3734411	1.73E-04	7.91E-04	1.73E-06	2.37E-05	1.08E-04	2.58E-07	1.46E-05	4.97E-05	5.98E-08
2267	420498.4	3734410	1.39E-04	6.35E-04	1.39E-06	1.90E-05	8.68E-05	2.07E-07	1.17E-05	3.99E-05	4.80E-08
2268	420478.4	3734410	1.13E-04	5.17E-04	1.13E-06	1.55E-05	7.07E-05	1.68E-07	9.52E-06	3.25E-05	3.91E-08
2269	420458.4	3734409	9.36E-05	4.28E-04	9.35E-07	1.28E-05	5.85E-05	1.39E-07	7.87E-06	2.69E-05	3.23E-08
2270	420418.4	3734408	6.64E-05	3.03E-04	6.63E-07	9.10E-06	4.15E-05	9.88E-08	5.58E-06	1.91E-05	2.29E-08
2271	420398.4	3734407	5.68E-05	2.60E-04	5.68E-07	7.79E-06	3.55E-05	8.46E-08	4.78E-06	1.63E-05	1.96E-08
2272	420378.4	3734407	4.91E-05	2.25E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
2273	420338.5	3734406	3.76E-05	1.72E-04	3.76E-07	5.15E-06	2.35E-05	5.59E-08	3.16E-06	1.08E-05	1.30E-08
2274	420338	3734422	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
2275	420298.3	3734413	2.93E-05	1.34E-04	2.93E-07	4.02E-06	1.83E-05	4.37E-08	2.47E-06	8.43E-06	1.01E-08
2276	420297.8	3734429	2.90E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2277	420258.3	3734412	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09
2278	420257.8	3734428	2.33E-05	1.07E-04	2.33E-07	3.19E-06	1.46E-05	3.47E-08	1.96E-06	6.69E-06	8.05E-09
2279	420218.3	3734411	1.94E-05	8.85E-05	1.94E-07	2.65E-06	1.21E-05	2.88E-08	1.63E-06	5.57E-06	6.69E-09
2280	420217.8	3734427	1.91E-05	8.74E-05	1.91E-07	2.62E-06	1.20E-05	2.85E-08	1.61E-06	5.50E-06	6.61E-09
2281	420178.3	3734410	1.62E-05	7.39E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.64E-06	5.58E-09
2282	420177.9	3734426	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
2283	420138.3	3734409	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
2284	420137.9	3734425	1.35E-05	6.19E-05	1.35E-07	1.85E-06	8.46E-06	2.01E-08	1.14E-06	3.89E-06	4.68E-09
2285	420098.3	3734408	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
2286	420097.9	3734424	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.75E-07	3.33E-06	4.01E-09
2287	420058.3	3734407	1.02E-05	4.65E-05	1.02E-07	1.39E-06	6.36E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
2288	420057.9	3734423	1.01E-05	4.60E-05	1.00E-07	1.38E-06	6.29E-06	1.50E-08	8.46E-07	2.89E-06	3.47E-09
2289	420018.4	3734405	8.92E-06	4.08E-05	8.91E-08	1.22E-06	5.58E-06	1.33E-08	7.50E-07	2.56E-06	3.08E-09
2290	420017.9	3734422	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2291	419978.6	3734396	7.94E-06	3.63E-05	7.93E-08	1.09E-06	4.96E-06	1.18E-08	6.68E-07	2.28E-06	2.74E-09
2292	419978.1	3734413	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
2293	420667.7	3734449	4.20E-03	1.92E-02	4.19E-05	5.75E-04	2.62E-03	6.25E-06	3.53E-04	1.21E-03	1.45E-06
2294	420667.7	3734459	4.55E-03	2.08E-02	4.55E-05	6.24E-04	2.85E-03	6.78E-06	3.83E-04	1.31E-03	1.57E-06
2295	420667.7	3734468	4.88E-03	2.23E-02	4.88E-05	6.69E-04	3.05E-03	7.26E-06	4.11E-04	1.40E-03	1.69E-06
2296	420667.7	3734478	5.12E-03	2.34E-02	5.12E-05	7.02E-04	3.20E-03	7.62E-06	4.31E-04	1.47E-03	1.77E-06
2297	420667.7	3734488	5.26E-03	2.40E-02	5.25E-05	7.21E-04	3.29E-03	7.83E-06	4.42E-04	1.51E-03	1.82E-06

2298	420667.7	3734497	5.25E-03	2.40E-02	5.25E-05	7.20E-04	3.28E-03	7.82E-06	4.42E-04	1.51E-03	1.82E-06
2299	420667.7	3734507	5.09E-03	2.33E-02	5.09E-05	6.98E-04	3.18E-03	7.58E-06	4.28E-04	1.46E-03	1.76E-06
2300	420667.7	3734517	4.74E-03	2.17E-02	4.74E-05	6.50E-04	2.97E-03	7.06E-06	3.99E-04	1.36E-03	1.64E-06
2301	420667.7	3734526	4.19E-03	1.91E-02	4.18E-05	5.74E-04	2.62E-03	6.23E-06	3.52E-04	1.20E-03	1.45E-06
2302	420667.7	3734536	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.22E-03	5.29E-06	2.99E-04	1.02E-03	1.23E-06
2303	420657.7	3734468	3.19E-03	1.46E-02	3.19E-05	4.37E-04	1.99E-03	4.75E-06	2.68E-04	9.16E-04	1.10E-06
2304	420657.7	3734478	3.30E-03	1.51E-02	3.30E-05	4.52E-04	2.06E-03	4.91E-06	2.78E-04	9.49E-04	1.14E-06
2305	420657.7	3734488	3.34E-03	1.53E-02	3.34E-05	4.58E-04	2.09E-03	4.97E-06	2.81E-04	9.60E-04	1.15E-06
2306	420657.7	3734497	3.30E-03	1.51E-02	3.29E-05	4.52E-04	2.06E-03	4.91E-06	2.77E-04	9.47E-04	1.14E-06
2307	420657.7	3734507	3.16E-03	1.44E-02	3.16E-05	4.33E-04	1.97E-03	4.70E-06	2.66E-04	9.08E-04	1.09E-06
2308	420657.7	3734517	2.93E-03	1.34E-02	2.93E-05	4.02E-04	1.83E-03	4.36E-06	2.47E-04	8.42E-04	1.01E-06
2309	420657.7	3734526	2.62E-03	1.20E-02	2.62E-05	3.59E-04	1.64E-03	3.90E-06	2.21E-04	7.53E-04	9.06E-07
2310	420657.7	3734536	2.29E-03	1.05E-02	2.29E-05	3.14E-04	1.43E-03	3.41E-06	1.92E-04	6.57E-04	7.91E-07
2311	420647.7	3734488	2.26E-03	1.03E-02	2.26E-05	3.10E-04	1.41E-03	3.36E-06	1.90E-04	6.49E-04	7.81E-07
2312	420647.7	3734497	2.21E-03	1.01E-02	2.21E-05	3.03E-04	1.38E-03	3.29E-06	1.86E-04	6.35E-04	7.64E-07
2313	420647.7	3734507	2.11E-03	9.65E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.78E-04	6.07E-04	7.29E-07
2314	420647.7	3734517	1.97E-03	8.99E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
2315	420647.7	3734526	1.79E-03	8.16E-03	1.78E-05	2.45E-04	1.12E-03	2.66E-06	1.50E-04	5.13E-04	6.17E-07
2316	420647.7	3734536	1.59E-03	7.28E-03	1.59E-05	2.18E-04	9.96E-04	2.37E-06	1.34E-04	4.58E-04	5.51E-07
2317	420617.7	3734507	8.61E-04	3.94E-03	8.60E-06	1.18E-04	5.38E-04	1.28E-06	7.24E-05	2.47E-04	2.97E-07
2318	420617.7	3734536	7.16E-04	3.27E-03	7.16E-06	9.81E-05	4.48E-04	1.07E-06	6.02E-05	2.06E-04	2.47E-07
2319	420607.7	3734526	6.16E-04	2.82E-03	6.16E-06	8.45E-05	3.85E-04	9.18E-07	5.19E-05	1.77E-04	2.13E-07
2320	420587.7	3734488	4.78E-04	2.18E-03	4.77E-06	6.55E-05	2.99E-04	7.11E-07	4.02E-05	1.37E-04	1.65E-07
2321	420587.7	3734536	4.00E-04	1.83E-03	3.99E-06	5.48E-05	2.50E-04	5.95E-07	3.36E-05	1.15E-04	1.38E-07
2322	420577.7	3734478	4.04E-04	1.85E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.40E-05	1.16E-04	1.39E-07
2323	420577.7	3734507	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.62E-07	3.18E-05	1.09E-04	1.31E-07
2324	420557.7	3734488	2.86E-04	1.31E-03	2.85E-06	3.91E-05	1.79E-04	4.25E-07	2.40E-05	8.20E-05	9.87E-08
2325	420557.7	3734507	2.74E-04	1.25E-03	2.73E-06	3.75E-05	1.71E-04	4.07E-07	2.30E-05	7.86E-05	9.45E-08
2326	420517.7	3734468	1.69E-04	7.74E-04	1.69E-06	2.32E-05	1.06E-04	2.52E-07	1.42E-05	4.86E-05	5.85E-08
2327	420517.7	3734478	1.67E-04	7.65E-04	1.67E-06	2.29E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.78E-08
2328	420497.7	3734478	1.32E-04	6.06E-04	1.32E-06	1.82E-05	8.28E-05	1.97E-07	1.11E-05	3.81E-05	4.58E-08
2329	420497.7	3734507	1.27E-04	5.82E-04	1.27E-06	1.74E-05	7.96E-05	1.89E-07	1.07E-05	3.66E-05	4.40E-08
2330	420497.7	3734536	1.21E-04	5.52E-04	1.21E-06	1.65E-05	7.54E-05	1.80E-07	1.02E-05	3.47E-05	4.17E-08
2331	420477.7	3734478	1.07E-04	4.90E-04	1.07E-06	1.47E-05	6.70E-05	1.60E-07	9.01E-06	3.08E-05	3.70E-08
2332	420477.7	3734517	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.37E-05	1.52E-07	8.57E-06	2.93E-05	3.52E-08
2333	420457.7	3734478	8.83E-05	4.04E-04	8.82E-07	1.21E-05	5.52E-05	1.31E-07	7.43E-06	2.54E-05	3.05E-08
2334	420417.7	3734478	6.25E-05	2.86E-04	6.24E-07	8.56E-06	3.91E-05	9.30E-08	5.26E-06	1.80E-05	2.16E-08
2335	420417.7	3734536	5.87E-05	2.68E-04	5.87E-07	8.04E-06	3.67E-05	8.74E-08	4.94E-06	1.69E-05	2.03E-08
2336	420397.7	3734478	5.35E-05	2.45E-04	5.35E-07	7.33E-06	3.34E-05	7.96E-08	4.50E-06	1.54E-05	1.85E-08
2337	420377.7	3734478	4.62E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.88E-08	3.89E-06	1.33E-05	1.60E-08
2338	420337.7	3734440	3.65E-05	1.67E-04	3.65E-07	5.00E-06	2.28E-05	5.43E-08	3.07E-06	1.05E-05	1.26E-08
2339	420337.7	3734468	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.00E-06	1.03E-05	1.23E-08
2340	420337.7	3734478	3.54E-05	1.62E-04	3.54E-07	4.86E-06	2.22E-05	5.28E-08	2.98E-06	1.02E-05	1.22E-08
2341	420257.7	3734440	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.99E-09
2342	420257.7	3734468	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.37E-08	1.91E-06	6.51E-06	7.83E-09
2343	420257.7	3734478	2.25E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.35E-08	1.89E-06	6.47E-06	7.78E-09
2344	420217.7	3734440	1.90E-05	8.67E-05	1.90E-07	2.60E-06	1.19E-05	2.82E-08	1.60E-06	5.45E-06	6.55E-09
2345	420217.7	3734468	1.86E-05	8.51E-05	1.86E-07	2.55E-06	1.16E-05	2.77E-08	1.57E-06	5.35E-06	6.43E-09
2346	420217.7	3734478	1.85E-05	8.45E-05	1.85E-07	2.53E-06	1.16E-05	2.75E-08	1.56E-06	5.31E-06	6.39E-09
2347	420177.7	3734440	1.58E-05	7.24E-05	1.58E-07	2.17E-06	9.90E-06	2.36E-08	1.33E-06	4.55E-06	5.47E-09
2348	420177.7	3734468	1.55E-05	7.11E-05	1.55E-07	2.13E-06	9.72E-06	2.31E-08	1.31E-06	4.47E-06	5.37E-09
2349	420177.7	3734478	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.66E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
2350	420137.7	3734440	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.38E-06	2.00E-08	1.13E-06	3.85E-06	4.63E-09
2351	420137.7	3734468	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
2352	420137.7	3734478	1.31E-05	5.98E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.76E-06	4.52E-09
2353	420137.7	3734488	1.30E-05	5.94E-05	1.30E-07	1.78E-06	8.12E-06	1.93E-08	1.09E-06	3.73E-06	4.49E-09
2354	420097.7	3734440	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
2355	420097.7	3734468	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.93E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
2356	420097.7	3734478	1.10E-05	5.02E-05	1.10E-07	1.50E-06	6.86E-06	1.63E-08	9.23E-07	3.15E-06	3.79E-09

2357	420097.7	3734488	1.09E-05	4.97E-05	1.09E-07	1.49E-06	6.80E-06	1.62E-08	9.15E-07	3.13E-06	3.76E-09
2358	420057.7	3734440	9.81E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
2359	420057.7	3734468	9.45E-06	4.32E-05	9.44E-08	1.30E-06	5.91E-06	1.41E-08	7.95E-07	2.72E-06	3.27E-09
2360	420057.7	3734478	9.38E-06	4.29E-05	9.37E-08	1.29E-06	5.86E-06	1.40E-08	7.89E-07	2.69E-06	3.24E-09
2361	420057.7	3734488	9.30E-06	4.25E-05	9.30E-08	1.28E-06	5.82E-06	1.38E-08	7.83E-07	2.67E-06	3.22E-09
2362	420017.7	3734440	8.59E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
2363	420017.7	3734468	8.32E-06	3.80E-05	8.31E-08	1.14E-06	5.20E-06	1.24E-08	7.00E-07	2.39E-06	2.87E-09
2364	420017.7	3734478	8.26E-06	3.78E-05	8.25E-08	1.13E-06	5.16E-06	1.23E-08	6.95E-07	2.37E-06	2.85E-09
2365	420017.7	3734488	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.84E-09
2366	419977.8	3734430	7.78E-06	3.56E-05	7.78E-08	1.07E-06	4.86E-06	1.16E-08	6.55E-07	2.24E-06	2.69E-09
2367	419977.7	3734440	7.70E-06	3.52E-05	7.70E-08	1.06E-06	4.82E-06	1.15E-08	6.48E-07	2.21E-06	2.66E-09
2368	419977.7	3734468	7.49E-06	3.42E-05	7.49E-08	1.03E-06	4.68E-06	1.12E-08	6.30E-07	2.15E-06	2.59E-09
2369	419977.7	3734478	7.45E-06	3.41E-05	7.45E-08	1.02E-06	4.66E-06	1.11E-08	6.27E-07	2.14E-06	2.57E-09
2370	419977.7	3734488	7.41E-06	3.39E-05	7.40E-08	1.02E-06	4.63E-06	1.10E-08	6.23E-07	2.13E-06	2.56E-09
2371	420671.1	3734573	2.01E-03	9.17E-03	2.00E-05	2.75E-04	1.25E-03	2.98E-06	1.69E-04	5.76E-04	6.93E-07
2372	420656.8	3734567	1.34E-03	6.11E-03	1.34E-05	1.83E-04	8.35E-04	1.99E-06	1.12E-04	3.84E-04	4.62E-07
2373	420705.8	3734575	8.58E-03	3.92E-02	8.58E-05	1.18E-03	5.37E-03	1.28E-05	7.22E-04	2.47E-03	2.97E-06
2374	420715	3734575	1.11E-02	5.06E-02	1.11E-04	1.52E-03	6.92E-03	1.65E-05	9.31E-04	3.18E-03	3.82E-06
2375	420724.2	3734575	1.29E-02	5.90E-02	1.29E-04	1.77E-03	8.07E-03	1.92E-05	1.09E-03	3.71E-03	4.46E-06
2376	420733.4	3734575	1.38E-02	6.33E-02	1.38E-04	1.90E-03	8.66E-03	2.06E-05	1.16E-03	3.98E-03	4.78E-06
2377	420671.2	3734583	1.68E-03	7.66E-03	1.67E-05	2.30E-04	1.05E-03	2.49E-06	1.41E-04	4.82E-04	5.79E-07
2378	420656.9	3734577	1.15E-03	5.26E-03	1.15E-05	1.58E-04	7.19E-04	1.71E-06	9.67E-05	3.30E-04	3.97E-07
2379	420639.6	3734564	8.83E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.32E-06	7.43E-05	2.54E-04	3.05E-07
2380	420706	3734585	6.15E-03	2.81E-02	6.14E-05	8.42E-04	3.84E-03	9.15E-06	5.17E-04	1.77E-03	2.12E-06
2381	420715.1	3734585	7.89E-03	3.61E-02	7.89E-05	1.08E-03	4.93E-03	1.17E-05	6.64E-04	2.27E-03	2.73E-06
2382	420724.3	3734585	9.37E-03	4.29E-02	9.37E-05	1.28E-03	5.86E-03	1.40E-05	7.89E-04	2.69E-03	3.24E-06
2383	420733.5	3734585	1.04E-02	4.74E-02	1.04E-04	1.42E-03	6.48E-03	1.54E-05	8.72E-04	2.98E-03	3.58E-06
2384	420671.4	3734593	1.42E-03	6.49E-03	1.42E-05	1.95E-04	8.87E-04	2.11E-06	1.19E-04	4.08E-04	4.90E-07
2385	420657.1	3734587	9.98E-04	4.56E-03	9.98E-06	1.37E-04	6.24E-04	1.49E-06	8.40E-05	2.87E-04	3.45E-07
2386	420642.7	3734581	7.63E-04	3.49E-03	7.62E-06	1.05E-04	4.77E-04	1.14E-06	6.42E-05	2.19E-04	2.64E-07
2387	420632.6	3734571	6.95E-04	3.18E-03	6.95E-06	9.53E-05	4.35E-04	1.03E-06	5.85E-05	2.00E-04	2.40E-07
2388	420696.9	3734595	3.41E-03	1.56E-02	3.41E-05	4.67E-04	2.13E-03	5.08E-06	2.87E-04	9.80E-04	1.18E-06
2389	420706.1	3734595	4.60E-03	2.10E-02	4.60E-05	6.30E-04	2.88E-03	6.85E-06	3.87E-04	1.32E-03	1.59E-06
2390	420715.3	3734595	5.86E-03	2.68E-02	5.86E-05	8.04E-04	3.67E-03	8.73E-06	4.93E-04	1.69E-03	2.03E-06
2391	420724.5	3734595	7.02E-03	3.21E-02	7.02E-05	9.62E-04	4.39E-03	1.04E-05	5.91E-04	2.02E-03	2.43E-06
2392	420645.3	3734592	7.03E-04	3.21E-03	7.02E-06	9.63E-05	4.39E-04	1.05E-06	5.91E-05	2.02E-04	2.43E-07
2393	420625.1	3734577	5.64E-04	2.58E-03	5.64E-06	7.73E-05	3.52E-04	8.39E-07	4.74E-05	1.62E-04	1.95E-07
2394	420687.9	3734606	1.99E-03	9.09E-03	1.99E-05	2.72E-04	1.24E-03	2.96E-06	1.67E-04	5.71E-04	6.87E-07
2395	420697.1	3734605	2.70E-03	1.23E-02	2.70E-05	3.70E-04	1.69E-03	4.02E-06	2.27E-04	7.75E-04	9.32E-07
2396	420706.3	3734605	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.23E-03	5.30E-06	3.00E-04	1.02E-03	1.23E-06
2397	420715.4	3734605	4.50E-03	2.06E-02	4.50E-05	6.17E-04	2.81E-03	6.70E-06	3.79E-04	1.29E-03	1.55E-06
2398	420724.6	3734605	5.40E-03	2.47E-02	5.40E-05	7.40E-04	3.38E-03	8.04E-06	4.54E-04	1.55E-03	1.87E-06
2399	420637.9	3734599	5.59E-04	2.56E-03	5.59E-06	7.67E-05	3.50E-04	8.33E-07	4.71E-05	1.61E-04	1.93E-07
2400	420618.1	3734585	4.65E-04	2.12E-03	4.64E-06	6.37E-05	2.91E-04	6.92E-07	3.91E-05	1.34E-04	1.61E-07
2401	420611.3	3734568	4.82E-04	2.20E-03	4.81E-06	6.60E-05	3.01E-04	7.17E-07	4.05E-05	1.38E-04	1.66E-07
2402	420688	3734616	1.65E-03	7.55E-03	1.65E-05	2.26E-04	1.03E-03	2.46E-06	1.39E-04	4.75E-04	5.71E-07
2403	420697.2	3734615	2.19E-03	1.00E-02	2.19E-05	3.00E-04	1.37E-03	3.26E-06	1.84E-04	6.28E-04	7.56E-07
2404	420706.4	3734615	2.83E-03	1.30E-02	2.83E-05	3.88E-04	1.77E-03	4.22E-06	2.38E-04	8.14E-04	9.79E-07
2405	420715.6	3734615	3.55E-03	1.62E-02	3.54E-05	4.86E-04	2.22E-03	5.28E-06	2.98E-04	1.02E-03	1.23E-06
2406	420724.8	3734615	4.25E-03	1.94E-02	4.25E-05	5.83E-04	2.66E-03	6.33E-06	3.58E-04	1.22E-03	1.47E-06
2407	420638.7	3734610	5.07E-04	2.32E-03	5.06E-06	6.95E-05	3.17E-04	7.54E-07	4.26E-05	1.46E-04	1.75E-07
2408	420622.6	3734603	4.16E-04	1.90E-03	4.16E-06	5.70E-05	2.60E-04	6.19E-07	3.50E-05	1.19E-04	1.44E-07
2409	420611.1	3734592	3.89E-04	1.78E-03	3.89E-06	5.34E-05	2.43E-04	5.80E-07	3.28E-05	1.12E-04	1.35E-07
2410	420604.4	3734576	4.03E-04	1.84E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.39E-05	1.16E-04	1.39E-07
2411	420688.2	3734626	1.39E-03	6.37E-03	1.39E-05	1.91E-04	8.72E-04	2.08E-06	1.17E-04	4.01E-04	4.82E-07
2412	420697.4	3734625	1.81E-03	8.27E-03	1.81E-05	2.48E-04	1.13E-03	2.69E-06	1.52E-04	5.20E-04	6.25E-07
2413	420706.5	3734625	2.30E-03	1.05E-02	2.30E-05	3.16E-04	1.44E-03	3.43E-06	1.94E-04	6.62E-04	7.96E-07
2414	420715.7	3734625	2.85E-03	1.30E-02	2.85E-05	3.91E-04	1.78E-03	4.25E-06	2.40E-04	8.20E-04	9.86E-07
2415	420724.9	3734625	3.41E-03	1.56E-02	3.41E-05	4.68E-04	2.13E-03	5.08E-06	2.87E-04	9.81E-04	1.18E-06

2416	420639.3	3734620	4.60E-04	2.10E-03	4.60E-06	6.31E-05	2.88E-04	6.85E-07	3.87E-05	1.32E-04	1.59E-07
2417	420623.4	3734613	3.81E-04	1.74E-03	3.81E-06	5.22E-05	2.38E-04	5.67E-07	3.21E-05	1.09E-04	1.32E-07
2418	420604.2	3734599	3.31E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
2419	420597.5	3734583	3.43E-04	1.57E-03	3.42E-06	4.70E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
2420	420688.3	3734636	1.19E-03	5.44E-03	1.19E-05	1.63E-04	7.44E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
2421	420697.5	3734635	1.52E-03	6.93E-03	1.52E-05	2.08E-04	9.48E-04	2.26E-06	1.28E-04	4.36E-04	5.24E-07
2422	420706.7	3734635	1.91E-03	8.71E-03	1.90E-05	2.61E-04	1.19E-03	2.84E-06	1.60E-04	5.47E-04	6.58E-07
2423	420715.9	3734635	2.34E-03	1.07E-02	2.34E-05	3.21E-04	1.46E-03	3.48E-06	1.97E-04	6.72E-04	8.08E-07
2424	420725.1	3734635	2.79E-03	1.27E-02	2.79E-05	3.82E-04	1.74E-03	4.15E-06	2.35E-04	8.01E-04	9.64E-07
2425	420671.6	3734653	6.25E-04	2.86E-03	6.24E-06	8.56E-05	3.91E-04	9.30E-07	5.26E-05	1.80E-04	2.16E-07
2426	420640.3	3734640	3.82E-04	1.75E-03	3.82E-06	5.24E-05	2.39E-04	5.69E-07	3.22E-05	1.10E-04	1.32E-07
2427	420624.7	3734634	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.70E-05	9.21E-05	1.11E-07
2428	420609.1	3734627	2.76E-04	1.26E-03	2.76E-06	3.79E-05	1.73E-04	4.11E-07	2.33E-05	7.94E-05	9.55E-08
2429	420590.2	3734613	2.46E-04	1.13E-03	2.46E-06	3.38E-05	1.54E-04	3.67E-07	2.07E-05	7.08E-05	8.51E-08
2430	420583.7	3734598	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
2431	420573.9	3734575	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.89E-07	2.20E-05	7.50E-05	9.02E-08
2432	420688.6	3734656	8.94E-04	4.09E-03	8.93E-06	1.23E-04	5.59E-04	1.33E-06	7.52E-05	2.57E-04	3.09E-07
2433	420697.8	3734655	1.11E-03	5.06E-03	1.11E-05	1.52E-04	6.92E-04	1.65E-06	9.32E-05	3.18E-04	3.83E-07
2434	420707	3734655	1.36E-03	6.21E-03	1.36E-05	1.86E-04	8.50E-04	2.02E-06	1.14E-04	3.90E-04	4.70E-07
2435	420716.2	3734655	1.64E-03	7.50E-03	1.64E-05	2.25E-04	1.03E-03	2.44E-06	1.38E-04	4.72E-04	5.67E-07
2436	420671.3	3734672	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
2437	420654.6	3734666	3.84E-04	1.76E-03	3.84E-06	5.26E-05	2.40E-04	5.72E-07	3.23E-05	1.10E-04	1.33E-07
2438	420646.3	3734662	3.42E-04	1.57E-03	3.42E-06	4.69E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
2439	420629.6	3734656	2.82E-04	1.29E-03	2.82E-06	3.87E-05	1.76E-04	4.20E-07	2.37E-05	8.10E-05	9.75E-08
2440	420612.8	3734649	2.42E-04	1.11E-03	2.42E-06	3.31E-05	1.51E-04	3.60E-07	2.03E-05	6.94E-05	8.35E-08
2441	420604.5	3734646	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.36E-07	1.90E-05	6.49E-05	7.80E-08
2442	420587.8	3734639	1.99E-04	9.08E-04	1.99E-06	2.72E-05	1.24E-04	2.96E-07	1.67E-05	5.71E-05	6.86E-08
2443	420575.9	3734627	1.90E-04	8.71E-04	1.90E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.47E-05	6.58E-08
2444	420572.4	3734619	1.94E-04	8.87E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
2445	420679.7	3734676	5.70E-04	2.60E-03	5.69E-06	7.81E-05	3.56E-04	8.48E-07	4.79E-05	1.64E-04	1.97E-07
2446	420688.9	3734676	6.92E-04	3.16E-03	6.92E-06	9.48E-05	4.33E-04	1.03E-06	5.82E-05	1.99E-04	2.39E-07
2447	420698.1	3734675	8.39E-04	3.84E-03	8.39E-06	1.15E-04	5.25E-04	1.25E-06	7.06E-05	2.41E-04	2.90E-07
2448	420707.3	3734675	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.51E-06	8.51E-05	2.91E-04	3.49E-07
2449	420716.5	3734675	1.20E-03	5.50E-03	1.20E-05	1.65E-04	7.53E-04	1.79E-06	1.01E-04	3.46E-04	4.16E-07
2450	420671.8	3734692	4.08E-04	1.86E-03	4.08E-06	5.59E-05	2.55E-04	6.07E-07	3.43E-05	1.17E-04	1.41E-07
2451	420655.4	3734686	3.23E-04	1.48E-03	3.23E-06	4.43E-05	2.02E-04	4.81E-07	2.72E-05	9.29E-05	1.12E-07
2452	420639.1	3734679	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
2453	420622.7	3734673	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.34E-07	1.89E-05	6.44E-05	7.74E-08
2454	420606.3	3734666	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
2455	420589.9	3734660	1.75E-04	7.99E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.02E-05	6.04E-08
2456	420573.6	3734653	1.57E-04	7.16E-04	1.57E-06	2.15E-05	9.79E-05	2.33E-07	1.32E-05	4.50E-05	5.41E-08
2457	420531.3	3734568	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.93E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
2458	420689.2	3734696	5.49E-04	2.51E-03	5.49E-06	7.53E-05	3.43E-04	8.17E-07	4.62E-05	1.58E-04	1.90E-07
2459	420698.4	3734695	6.55E-04	2.99E-03	6.54E-06	8.97E-05	4.09E-04	9.74E-07	5.51E-05	1.88E-04	2.26E-07
2460	420707.6	3734695	7.76E-04	3.55E-03	7.76E-06	1.06E-04	4.85E-04	1.16E-06	6.53E-05	2.23E-04	2.68E-07
2461	420735.1	3734695	1.21E-03	5.54E-03	1.21E-05	1.66E-04	7.58E-04	1.80E-06	1.02E-04	3.48E-04	4.19E-07
2462	420672.2	3734712	3.39E-04	1.55E-03	3.39E-06	4.65E-05	2.12E-04	5.05E-07	2.85E-05	9.74E-05	1.17E-07
2463	420656.1	3734706	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.09E-07	2.31E-05	7.89E-05	9.49E-08
2464	420640	3734700	2.27E-04	1.04E-03	2.27E-06	3.12E-05	1.42E-04	3.39E-07	1.91E-05	6.54E-05	7.86E-08
2465	420623.9	3734693	1.94E-04	8.89E-04	1.94E-06	2.67E-05	1.22E-04	2.89E-07	1.64E-05	5.59E-05	6.72E-08
2466	420607.7	3734687	1.71E-04	7.83E-04	1.71E-06	2.35E-05	1.07E-04	2.55E-07	1.44E-05	4.92E-05	5.92E-08
2467	420591.6	3734680	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.61E-05	2.29E-07	1.29E-05	4.42E-05	5.31E-08
2468	420575.5	3734674	1.39E-04	6.37E-04	1.39E-06	1.91E-05	8.70E-05	2.07E-07	1.17E-05	4.00E-05	4.81E-08
2469	420548	3734656	1.23E-04	5.60E-04	1.23E-06	1.68E-05	7.66E-05	1.82E-07	1.03E-05	3.52E-05	4.24E-08
2470	420689.5	3734716	4.44E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.61E-07	3.74E-05	1.28E-04	1.54E-07
2471	420698.7	3734715	5.22E-04	2.39E-03	5.22E-06	7.16E-05	3.26E-04	7.77E-07	4.39E-05	1.50E-04	1.80E-07
2472	420707.8	3734715	6.11E-04	2.79E-03	6.11E-06	8.38E-05	3.82E-04	9.10E-07	5.14E-05	1.76E-04	2.11E-07
2473	420735.4	3734715	9.32E-04	4.26E-03	9.31E-06	1.28E-04	5.83E-04	1.39E-06	7.84E-05	2.68E-04	3.22E-07
2474	420663.7	3734729	2.56E-04	1.17E-03	2.56E-06	3.51E-05	1.60E-04	3.81E-07	2.15E-05	7.35E-05	8.84E-08

2475	420655.3	3734726	2.32E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.45E-07	1.95E-05	6.65E-05	8.00E-08
2476	420646.9	3734722	2.11E-04	9.63E-04	2.10E-06	2.89E-05	1.32E-04	3.13E-07	1.77E-05	6.05E-05	7.28E-08
2477	420638.4	3734719	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.21E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
2478	420630	3734715	1.78E-04	8.13E-04	1.78E-06	2.44E-05	1.11E-04	2.65E-07	1.50E-05	5.11E-05	6.15E-08
2479	420621.6	3734712	1.65E-04	7.56E-04	1.65E-06	2.27E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.72E-08
2480	420613.1	3734709	1.55E-04	7.08E-04	1.55E-06	2.12E-05	9.69E-05	2.31E-07	1.30E-05	4.45E-05	5.35E-08
2481	420604.7	3734705	1.46E-04	6.68E-04	1.46E-06	2.00E-05	9.13E-05	2.17E-07	1.23E-05	4.20E-05	5.05E-08
2482	420596.3	3734702	1.38E-04	6.32E-04	1.38E-06	1.90E-05	8.65E-05	2.06E-07	1.16E-05	3.97E-05	4.78E-08
2483	420587.9	3734698	1.32E-04	6.01E-04	1.31E-06	1.80E-05	8.22E-05	1.96E-07	1.11E-05	3.78E-05	4.54E-08
2484	420579.4	3734695	1.25E-04	5.73E-04	1.25E-06	1.72E-05	7.84E-05	1.87E-07	1.05E-05	3.60E-05	4.33E-08
2485	420554.1	3734685	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.83E-05	1.63E-07	9.19E-06	3.14E-05	3.78E-08
2486	420545.7	3734682	1.04E-04	4.77E-04	1.04E-06	1.43E-05	6.53E-05	1.55E-07	8.78E-06	3.00E-05	3.61E-08
2487	420519.8	3734636	1.06E-04	4.84E-04	1.06E-06	1.45E-05	6.62E-05	1.58E-07	8.91E-06	3.04E-05	3.66E-08
2488	420502.2	3734594	1.07E-04	4.89E-04	1.07E-06	1.47E-05	6.68E-05	1.59E-07	8.99E-06	3.07E-05	3.69E-08
2489	420735.7	3734735	7.33E-04	3.35E-03	7.33E-06	1.01E-04	4.58E-04	1.09E-06	6.17E-05	2.11E-04	2.53E-07
2490	420606.2	3734726	1.29E-04	5.92E-04	1.29E-06	1.77E-05	8.09E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
2491	420589.6	3734719	1.17E-04	5.35E-04	1.17E-06	1.60E-05	7.32E-05	1.74E-07	9.85E-06	3.36E-05	4.04E-08
2492	420573	3734712	1.07E-04	4.90E-04	1.07E-06	1.47E-05	6.70E-05	1.60E-07	9.02E-06	3.08E-05	3.70E-08
2493	420539.8	3734699	9.09E-05	4.16E-04	9.08E-07	1.25E-05	5.68E-05	1.35E-07	7.65E-06	2.61E-05	3.14E-08
2494	420519.8	3734684	8.49E-05	3.88E-04	8.49E-07	1.16E-05	5.31E-05	1.26E-07	7.15E-06	2.44E-05	2.94E-08
2495	420468	3734560	8.58E-05	3.92E-04	8.58E-07	1.18E-05	5.37E-05	1.28E-07	7.22E-06	2.47E-05	2.97E-08
2496	420736	3734755	5.88E-04	2.69E-03	5.88E-06	8.07E-05	3.68E-04	8.76E-07	4.95E-05	1.69E-04	2.03E-07
2497	420542	3734720	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
2498	420525.6	3734713	7.68E-05	3.51E-04	7.67E-07	1.05E-05	4.80E-05	1.14E-07	6.46E-06	2.21E-05	2.65E-08
2499	420502.4	3734690	7.30E-05	3.34E-04	7.30E-07	1.00E-05	4.57E-05	1.09E-07	6.15E-06	2.10E-05	2.52E-08
2500	420495.6	3734674	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.57E-08
2501	420690.3	3734776	2.35E-04	1.08E-03	2.35E-06	3.23E-05	1.47E-04	3.50E-07	1.98E-05	6.76E-05	8.13E-08
2502	420699.5	3734775	2.72E-04	1.24E-03	2.72E-06	3.73E-05	1.70E-04	4.05E-07	2.29E-05	7.82E-05	9.40E-08
2503	420708.7	3734775	3.14E-04	1.44E-03	3.14E-06	4.31E-05	1.97E-04	4.68E-07	2.64E-05	9.03E-05	1.09E-07
2504	420736.3	3734775	4.74E-04	2.17E-03	4.74E-06	6.50E-05	2.97E-04	7.06E-07	3.99E-05	1.36E-04	1.64E-07
2505	420673	3734792	1.66E-04	7.58E-04	1.66E-06	2.27E-05	1.04E-04	2.47E-07	1.40E-05	4.76E-05	5.73E-08
2506	420596.8	3734762	9.60E-05	4.39E-04	9.60E-07	1.32E-05	6.00E-05	1.43E-07	8.08E-06	2.76E-05	3.32E-08
2507	420588.3	3734758	9.17E-05	4.19E-04	9.17E-07	1.26E-05	5.73E-05	1.37E-07	7.71E-06	2.63E-05	3.17E-08
2508	420579.8	3734755	8.79E-05	4.02E-04	8.78E-07	1.20E-05	5.49E-05	1.31E-07	7.39E-06	2.53E-05	3.04E-08
2509	420571.4	3734752	8.45E-05	3.86E-04	8.44E-07	1.16E-05	5.28E-05	1.26E-07	7.11E-06	2.43E-05	2.92E-08
2510	420520.6	3734731	6.82E-05	3.12E-04	6.81E-07	9.35E-06	4.26E-05	1.01E-07	5.74E-06	1.96E-05	2.36E-08
2511	420512.1	3734728	6.58E-05	3.01E-04	6.57E-07	9.02E-06	4.11E-05	9.79E-08	5.53E-06	1.89E-05	2.27E-08
2512	420503.6	3734724	6.34E-05	2.90E-04	6.34E-07	8.70E-06	3.97E-05	9.44E-08	5.34E-06	1.82E-05	2.19E-08
2513	420491.6	3734713	6.20E-05	2.83E-04	6.20E-07	8.50E-06	3.88E-05	9.23E-08	5.22E-06	1.78E-05	2.14E-08
2514	420477.6	3734679	6.44E-05	2.94E-04	6.44E-07	8.83E-06	4.03E-05	9.59E-08	5.42E-06	1.85E-05	2.23E-08
2515	420470.5	3734662	6.50E-05	2.97E-04	6.50E-07	8.92E-06	4.07E-05	9.68E-08	5.47E-06	1.87E-05	2.25E-08
2516	420459.9	3734637	6.54E-05	2.99E-04	6.53E-07	8.96E-06	4.09E-05	9.73E-08	5.50E-06	1.88E-05	2.26E-08
2517	420438.8	3734586	6.36E-05	2.91E-04	6.36E-07	8.72E-06	3.98E-05	9.47E-08	5.35E-06	1.83E-05	2.20E-08
2518	420681.4	3734796	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.16E-05	6.21E-08
2519	420690.6	3734796	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
2520	420699.8	3734795	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
2521	420709	3734795	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.65E-04	3.94E-07	2.23E-05	7.61E-05	9.15E-08
2522	420736.6	3734795	3.92E-04	1.79E-03	3.92E-06	5.38E-05	2.45E-04	5.84E-07	3.30E-05	1.13E-04	1.35E-07
2523	420673.4	3734812	1.46E-04	6.70E-04	1.46E-06	2.01E-05	9.16E-05	2.18E-07	1.23E-05	4.21E-05	5.06E-08
2524	420598.2	3734782	8.65E-05	3.95E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
2525	420589.8	3734779	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
2526	420573.1	3734772	7.63E-05	3.49E-04	7.63E-07	1.05E-05	4.77E-05	1.14E-07	6.42E-06	2.19E-05	2.64E-08
2527	420556.4	3734765	7.12E-05	3.25E-04	7.11E-07	9.76E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2528	420477.6	3734727	5.38E-05	2.46E-04	5.37E-07	7.37E-06	3.36E-05	8.00E-08	4.52E-06	1.54E-05	1.86E-08
2529	420470.7	3734710	5.49E-05	2.51E-04	5.49E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
2530	420463.7	3734694	5.57E-05	2.55E-04	5.57E-07	7.63E-06	3.48E-05	8.29E-08	4.69E-06	1.60E-05	1.92E-08
2531	420435.9	3734627	5.64E-05	2.58E-04	5.64E-07	7.73E-06	3.53E-05	8.39E-08	4.74E-06	1.62E-05	1.95E-08
2532	420681.7	3734816	1.57E-04	7.19E-04	1.57E-06	2.16E-05	9.83E-05	2.34E-07	1.32E-05	4.52E-05	5.43E-08
2533	420690.9	3734816	1.75E-04	8.00E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.03E-05	6.05E-08

2534	420700.1	3734815	1.98E-04	9.05E-04	1.98E-06	2.71E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.84E-08
2535	420709.3	3734815	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.44E-05	7.74E-08
2536	420736.9	3734815	3.27E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.38E-05	1.13E-07
2537	420673.8	3734832	1.30E-04	5.92E-04	1.29E-06	1.78E-05	8.10E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
2538	420657.2	3734826	1.15E-04	5.24E-04	1.14E-06	1.57E-05	7.16E-05	1.71E-07	9.64E-06	3.29E-05	3.96E-08
2539	420607.6	3734806	8.22E-05	3.76E-04	8.21E-07	1.13E-05	5.14E-05	1.22E-07	6.91E-06	2.36E-05	2.84E-08
2540	420591.1	3734799	7.49E-05	3.43E-04	7.49E-07	1.03E-05	4.68E-05	1.12E-07	6.30E-06	2.15E-05	2.59E-08
2541	420574.6	3734793	6.92E-05	3.17E-04	6.92E-07	9.49E-06	4.33E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
2542	420558	3734786	6.46E-05	2.96E-04	6.46E-07	8.86E-06	4.04E-05	9.62E-08	5.44E-06	1.86E-05	2.23E-08
2543	420541.5	3734779	6.07E-05	2.78E-04	6.07E-07	8.33E-06	3.80E-05	9.04E-08	5.11E-06	1.75E-05	2.10E-08
2544	420508.4	3734766	5.41E-05	2.47E-04	5.41E-07	7.42E-06	3.38E-05	8.05E-08	4.55E-06	1.55E-05	1.87E-08
2545	420491.9	3734759	5.10E-05	2.33E-04	5.10E-07	6.99E-06	3.19E-05	7.59E-08	4.29E-06	1.47E-05	1.76E-08
2546	420475.4	3734753	4.80E-05	2.19E-04	4.79E-07	6.57E-06	3.00E-05	7.14E-08	4.03E-06	1.38E-05	1.66E-08
2547	420449.9	3734708	4.86E-05	2.22E-04	4.86E-07	6.66E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
2548	420443	3734692	4.89E-05	2.24E-04	4.89E-07	6.70E-06	3.06E-05	7.28E-08	4.11E-06	1.41E-05	1.69E-08
2549	420436.1	3734675	4.91E-05	2.25E-04	4.91E-07	6.73E-06	3.07E-05	7.31E-08	4.13E-06	1.41E-05	1.70E-08
2550	420408.6	3734610	4.85E-05	2.22E-04	4.84E-07	6.64E-06	3.03E-05	7.21E-08	4.08E-06	1.39E-05	1.67E-08
2551	420401.7	3734593	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
2552	420394.9	3734577	4.67E-05	2.14E-04	4.67E-07	6.40E-06	2.92E-05	6.95E-08	3.93E-06	1.34E-05	1.61E-08
2553	420691.2	3734836	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.28E-05	4.39E-05	5.28E-08
2554	420700.4	3734835	1.71E-04	7.82E-04	1.71E-06	2.34E-05	1.07E-04	2.55E-07	1.44E-05	4.91E-05	5.91E-08
2555	420709.6	3734835	1.92E-04	8.76E-04	1.91E-06	2.63E-05	1.20E-04	2.85E-07	1.61E-05	5.50E-05	6.62E-08
2556	420737.1	3734835	2.74E-04	1.25E-03	2.73E-06	3.75E-05	1.71E-04	4.07E-07	2.30E-05	7.86E-05	9.45E-08
2557	420674.2	3734872	1.00E-04	4.59E-04	1.00E-06	1.38E-05	6.28E-05	1.49E-07	8.45E-06	2.88E-05	3.47E-08
2558	420665.8	3734869	9.47E-05	4.33E-04	9.46E-07	1.30E-05	5.92E-05	1.41E-07	7.97E-06	2.72E-05	3.27E-08
2559	420657.4	3734866	8.97E-05	4.10E-04	8.97E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
2560	420649	3734862	8.56E-05	3.91E-04	8.55E-07	1.17E-05	5.35E-05	1.27E-07	7.20E-06	2.46E-05	2.96E-08
2561	420640.6	3734859	8.19E-05	3.74E-04	8.18E-07	1.12E-05	5.12E-05	1.22E-07	6.89E-06	2.35E-05	2.83E-08
2562	420607	3734845	6.70E-05	3.06E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
2563	420598.6	3734842	6.40E-05	2.93E-04	6.40E-07	8.77E-06	4.00E-05	9.53E-08	5.39E-06	1.84E-05	2.21E-08
2564	420590.2	3734839	6.13E-05	2.80E-04	6.13E-07	8.40E-06	3.83E-05	9.13E-08	5.16E-06	1.76E-05	2.12E-08
2565	420581.8	3734835	5.89E-05	2.69E-04	5.89E-07	8.07E-06	3.68E-05	8.77E-08	4.96E-06	1.69E-05	2.04E-08
2566	420573.4	3734832	5.68E-05	2.59E-04	5.67E-07	7.78E-06	3.55E-05	8.45E-08	4.77E-06	1.63E-05	1.96E-08
2567	420565	3734828	5.48E-05	2.51E-04	5.48E-07	7.51E-06	3.43E-05	8.16E-08	4.61E-06	1.58E-05	1.89E-08
2568	420556.6	3734825	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
2569	420539.8	3734818	5.00E-05	2.28E-04	4.99E-07	6.85E-06	3.12E-05	7.44E-08	4.20E-06	1.44E-05	1.73E-08
2570	420531.4	3734815	4.87E-05	2.22E-04	4.86E-07	6.67E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
2571	420523	3734812	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.96E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
2572	420497.8	3734802	4.40E-05	2.01E-04	4.39E-07	6.03E-06	2.75E-05	6.54E-08	3.70E-06	1.26E-05	1.52E-08
2573	420489.4	3734798	4.29E-05	1.96E-04	4.28E-07	5.88E-06	2.68E-05	6.38E-08	3.61E-06	1.23E-05	1.48E-08
2574	420481	3734795	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
2575	420472.6	3734791	4.07E-05	1.86E-04	4.07E-07	5.58E-06	2.54E-05	6.06E-08	3.42E-06	1.17E-05	1.41E-08
2576	420464.2	3734788	3.96E-05	1.81E-04	3.96E-07	5.43E-06	2.48E-05	5.90E-08	3.33E-06	1.14E-05	1.37E-08
2577	420455.8	3734785	3.85E-05	1.76E-04	3.85E-07	5.28E-06	2.41E-05	5.74E-08	3.24E-06	1.11E-05	1.33E-08
2578	420447.4	3734781	3.75E-05	1.71E-04	3.74E-07	5.14E-06	2.34E-05	5.58E-08	3.15E-06	1.08E-05	1.29E-08
2579	420435.5	3734770	3.68E-05	1.68E-04	3.68E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
2580	420411.1	3734711	3.85E-05	1.76E-04	3.85E-07	5.27E-06	2.41E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
2581	420404.1	3734694	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
2582	420400.6	3734686	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.75E-08	3.25E-06	1.11E-05	1.33E-08
2583	420379.6	3734636	3.80E-05	1.74E-04	3.80E-07	5.21E-06	2.38E-05	5.66E-08	3.20E-06	1.09E-05	1.31E-08
2584	420376.1	3734628	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
2585	420369.1	3734611	3.73E-05	1.71E-04	3.73E-07	5.11E-06	2.33E-05	5.55E-08	3.14E-06	1.07E-05	1.29E-08
2586	420365.6	3734603	3.70E-05	1.69E-04	3.70E-07	5.07E-06	2.31E-05	5.51E-08	3.11E-06	1.06E-05	1.28E-08
2587	420358.6	3734586	3.63E-05	1.66E-04	3.63E-07	4.98E-06	2.27E-05	5.41E-08	3.05E-06	1.04E-05	1.25E-08
2588	420682.6	3734876	1.07E-04	4.88E-04	1.07E-06	1.46E-05	6.67E-05	1.59E-07	8.98E-06	3.07E-05	3.69E-08
2589	420691.8	3734876	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.33E-05	1.75E-07	9.87E-06	3.37E-05	4.05E-08
2590	420701	3734875	1.30E-04	5.95E-04	1.30E-06	1.78E-05	8.13E-05	1.94E-07	1.09E-05	3.74E-05	4.50E-08
2591	420710.2	3734875	1.44E-04	6.60E-04	1.44E-06	1.98E-05	9.03E-05	2.15E-07	1.21E-05	4.15E-05	4.99E-08
2592	420737.7	3734875	1.99E-04	9.09E-04	1.99E-06	2.72E-05	1.24E-04	2.96E-07	1.67E-05	5.71E-05	6.87E-08

2593	420674.7	3734912	7.97E-05	3.65E-04	7.97E-07	1.09E-05	4.98E-05	1.19E-07	6.71E-06	2.29E-05	2.75E-08
2594	420666.2	3734909	7.51E-05	3.43E-04	7.51E-07	1.03E-05	4.70E-05	1.12E-07	6.32E-06	2.16E-05	2.60E-08
2595	420657.7	3734905	7.13E-05	3.26E-04	7.12E-07	9.77E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2596	420649.2	3734902	6.81E-05	3.11E-04	6.80E-07	9.33E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
2597	420640.6	3734899	6.53E-05	2.98E-04	6.52E-07	8.95E-06	4.08E-05	9.72E-08	5.49E-06	1.88E-05	2.26E-08
2598	420632.1	3734895	6.28E-05	2.87E-04	6.28E-07	8.61E-06	3.93E-05	9.35E-08	5.28E-06	1.80E-05	2.17E-08
2599	420623.6	3734892	6.04E-05	2.76E-04	6.04E-07	8.28E-06	3.78E-05	9.00E-08	5.08E-06	1.74E-05	2.09E-08
2600	420389.7	3734756	3.06E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
2601	420386.2	3734747	3.07E-05	1.40E-04	3.07E-07	4.21E-06	1.92E-05	4.57E-08	2.58E-06	8.81E-06	1.06E-08
2602	420382.6	3734739	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.92E-05	4.58E-08	2.59E-06	8.84E-06	1.06E-08
2603	420379.1	3734730	3.08E-05	1.41E-04	3.08E-07	4.23E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
2604	420375.5	3734722	3.09E-05	1.41E-04	3.09E-07	4.23E-06	1.93E-05	4.60E-08	2.60E-06	8.87E-06	1.07E-08
2605	420372	3734713	3.09E-05	1.41E-04	3.09E-07	4.23E-06	1.93E-05	4.60E-08	2.60E-06	8.87E-06	1.07E-08
2606	420350.8	3734663	3.05E-05	1.39E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.76E-06	1.05E-08
2607	420343.7	3734646	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.50E-08	2.54E-06	8.69E-06	1.04E-08
2608	420340.1	3734637	3.01E-05	1.37E-04	3.00E-07	4.12E-06	1.88E-05	4.47E-08	2.53E-06	8.64E-06	1.04E-08
2609	420336.6	3734629	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
2610	420333.1	3734620	2.97E-05	1.36E-04	2.96E-07	4.07E-06	1.85E-05	4.41E-08	2.50E-06	8.52E-06	1.02E-08
2611	420683.2	3734916	8.48E-05	3.88E-04	8.48E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
2612	420692.4	3734916	9.26E-05	4.23E-04	9.25E-07	1.27E-05	5.79E-05	1.38E-07	7.79E-06	2.66E-05	3.20E-08
2613	420701.6	3734915	1.02E-04	4.66E-04	1.02E-06	1.40E-05	6.38E-05	1.52E-07	8.58E-06	2.93E-05	3.53E-08
2614	420710.7	3734915	1.13E-04	5.14E-04	1.12E-06	1.54E-05	7.03E-05	1.67E-07	9.47E-06	3.23E-05	3.89E-08
2615	420738.3	3734915	1.53E-04	6.99E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.29E-05	4.39E-05	5.28E-08
2616	420675.4	3734952	6.79E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.35E-08
2617	420658.7	3734946	6.09E-05	2.79E-04	6.09E-07	8.35E-06	3.81E-05	9.07E-08	5.13E-06	1.75E-05	2.11E-08
2618	420650.3	3734942	5.81E-05	2.66E-04	5.81E-07	7.97E-06	3.63E-05	8.65E-08	4.89E-06	1.67E-05	2.01E-08
2619	420633.6	3734936	5.33E-05	2.44E-04	5.33E-07	7.30E-06	3.33E-05	7.93E-08	4.48E-06	1.53E-05	1.84E-08
2620	420616.9	3734929	4.90E-05	2.24E-04	4.90E-07	6.72E-06	3.06E-05	7.30E-08	4.12E-06	1.41E-05	1.69E-08
2621	420575.1	3734912	4.04E-05	1.85E-04	4.04E-07	5.54E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08
2622	420558.4	3734905	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
2623	420541.7	3734899	3.59E-05	1.64E-04	3.58E-07	4.92E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
2624	420533.3	3734895	3.50E-05	1.60E-04	3.49E-07	4.79E-06	2.19E-05	5.20E-08	2.94E-06	1.00E-05	1.21E-08
2625	420516.6	3734889	3.34E-05	1.53E-04	3.33E-07	4.57E-06	2.09E-05	4.97E-08	2.81E-06	9.59E-06	1.15E-08
2626	420499.9	3734882	3.20E-05	1.46E-04	3.20E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.19E-06	1.11E-08
2627	420458.1	3734865	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2628	420441.4	3734858	2.78E-05	1.27E-04	2.78E-07	3.81E-06	1.74E-05	4.14E-08	2.34E-06	7.99E-06	9.60E-09
2629	420399.6	3734842	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
2630	420351.6	3734760	2.51E-05	1.15E-04	2.51E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.21E-06	8.67E-09
2631	420344.6	3734743	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.69E-09
2632	420320.3	3734685	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.70E-08	2.09E-06	7.15E-06	8.60E-09
2633	420313.3	3734669	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
2634	420683.8	3734956	7.18E-05	3.28E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.04E-06	2.06E-05	2.48E-08
2635	420693	3734956	7.78E-05	3.56E-04	7.78E-07	1.07E-05	4.87E-05	1.16E-07	6.55E-06	2.24E-05	2.69E-08
2636	420702.1	3734955	8.45E-05	3.86E-04	8.45E-07	1.16E-05	5.28E-05	1.26E-07	7.11E-06	2.43E-05	2.92E-08
2637	420711.3	3734955	9.19E-05	4.20E-04	9.18E-07	1.26E-05	5.74E-05	1.37E-07	7.73E-06	2.64E-05	3.18E-08
2638	420729.7	3734955	1.10E-04	5.01E-04	1.10E-06	1.50E-05	6.86E-05	1.63E-07	9.23E-06	3.15E-05	3.79E-08
2639	420738.9	3734955	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.52E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
2640	420675.9	3734992	5.80E-05	2.65E-04	5.80E-07	7.95E-06	3.63E-05	8.63E-08	4.88E-06	1.67E-05	2.00E-08
2641	420667.4	3734989	5.50E-05	2.51E-04	5.49E-07	7.53E-06	3.44E-05	8.18E-08	4.62E-06	1.58E-05	1.90E-08
2642	420659	3734986	5.21E-05	2.38E-04	5.21E-07	7.15E-06	3.26E-05	7.76E-08	4.39E-06	1.50E-05	1.80E-08
2643	420650.5	3734982	4.94E-05	2.26E-04	4.94E-07	6.77E-06	3.09E-05	7.35E-08	4.16E-06	1.42E-05	1.71E-08
2644	420642.1	3734979	4.69E-05	2.15E-04	4.69E-07	6.43E-06	2.93E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
2645	420633.6	3734975	4.47E-05	2.04E-04	4.47E-07	6.13E-06	2.79E-05	6.65E-08	3.76E-06	1.28E-05	1.54E-08
2646	420625.2	3734972	4.30E-05	1.97E-04	4.30E-07	5.89E-06	2.69E-05	6.40E-08	3.62E-06	1.24E-05	1.49E-08
2647	420616.7	3734969	4.18E-05	1.91E-04	4.17E-07	5.72E-06	2.61E-05	6.22E-08	3.51E-06	1.20E-05	1.44E-08
2648	420608.3	3734965	4.02E-05	1.84E-04	4.01E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
2649	420599.8	3734962	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
2650	420591.4	3734958	3.71E-05	1.70E-04	3.71E-07	5.09E-06	2.32E-05	5.53E-08	3.12E-06	1.07E-05	1.28E-08
2651	420557.6	3734945	3.25E-05	1.48E-04	3.24E-07	4.45E-06	2.03E-05	4.83E-08	2.73E-06	9.33E-06	1.12E-08

2652	420549.1	3734941	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.06E-06	1.09E-08
2653	420540.7	3734938	3.05E-05	1.40E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.77E-06	1.05E-08
2654	420532.2	3734935	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.53E-06	1.03E-08
2655	420523.8	3734931	2.89E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
2656	420515.3	3734928	2.83E-05	1.29E-04	2.82E-07	3.87E-06	1.77E-05	4.21E-08	2.38E-06	8.12E-06	9.77E-09
2657	420506.9	3734924	2.77E-05	1.27E-04	2.77E-07	3.79E-06	1.73E-05	4.12E-08	2.33E-06	7.95E-06	9.57E-09
2658	420498.4	3734921	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
2659	420490	3734918	2.67E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.24E-09
2660	420481.5	3734914	2.63E-05	1.20E-04	2.63E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.55E-06	9.08E-09
2661	420473.1	3734911	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.85E-08	2.18E-06	7.44E-06	8.95E-09
2662	420456.2	3734904	2.51E-05	1.15E-04	2.50E-07	3.44E-06	1.57E-05	3.73E-08	2.11E-06	7.20E-06	8.66E-09
2663	420447.7	3734901	2.46E-05	1.13E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.07E-06	8.51E-09
2664	420439.3	3734897	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.94E-06	8.34E-09
2665	420430.8	3734894	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.17E-09
2666	420422.4	3734891	2.32E-05	1.06E-04	2.32E-07	3.18E-06	1.45E-05	3.45E-08	1.95E-06	6.66E-06	8.01E-09
2667	420351.3	3734855	1.98E-05	9.07E-05	1.98E-07	2.72E-06	1.24E-05	2.95E-08	1.67E-06	5.70E-06	6.85E-09
2668	420330.2	3734805	2.07E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.14E-09
2669	420323.1	3734788	2.08E-05	9.49E-05	2.08E-07	2.85E-06	1.30E-05	3.09E-08	1.75E-06	5.97E-06	7.18E-09
2670	420319.6	3734779	2.08E-05	9.51E-05	2.08E-07	2.85E-06	1.30E-05	3.10E-08	1.75E-06	5.98E-06	7.19E-09
2671	420291.5	3734712	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.95E-06	7.15E-09
2672	420288	3734704	2.06E-05	9.44E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.74E-06	5.93E-06	7.13E-09
2673	420284.5	3734695	2.06E-05	9.41E-05	2.06E-07	2.82E-06	1.29E-05	3.06E-08	1.73E-06	5.91E-06	7.11E-09
2674	420277.4	3734679	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
2675	420684.4	3734996	6.12E-05	2.80E-04	6.12E-07	8.39E-06	3.83E-05	9.11E-08	5.15E-06	1.76E-05	2.12E-08
2676	420693.5	3734996	6.60E-05	3.02E-04	6.60E-07	9.05E-06	4.13E-05	9.83E-08	5.55E-06	1.90E-05	2.28E-08
2677	420702.7	3734995	7.12E-05	3.26E-04	7.12E-07	9.77E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
2678	420711.9	3734995	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.14E-07	6.47E-06	2.21E-05	2.66E-08
2679	420730.3	3734995	8.98E-05	4.11E-04	8.98E-07	1.23E-05	5.62E-05	1.34E-07	7.56E-06	2.58E-05	3.10E-08
2680	420739.5	3734995	9.71E-05	4.44E-04	9.70E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
2681	420676.6	3735032	4.91E-05	2.25E-04	4.91E-07	6.74E-06	3.07E-05	7.32E-08	4.13E-06	1.41E-05	1.70E-08
2682	420659.9	3735026	4.48E-05	2.05E-04	4.47E-07	6.14E-06	2.80E-05	6.66E-08	3.77E-06	1.29E-05	1.55E-08
2683	420651.6	3735022	4.27E-05	1.95E-04	4.27E-07	5.85E-06	2.67E-05	6.36E-08	3.59E-06	1.23E-05	1.48E-08
2684	420634.9	3735016	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
2685	420618.3	3735009	3.63E-05	1.66E-04	3.63E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
2686	420610	3735006	3.49E-05	1.60E-04	3.49E-07	4.78E-06	2.18E-05	5.19E-08	2.94E-06	1.00E-05	1.21E-08
2687	420593.3	3734999	3.24E-05	1.48E-04	3.24E-07	4.44E-06	2.03E-05	4.83E-08	2.73E-06	9.32E-06	1.12E-08
2688	420585	3734996	3.13E-05	1.43E-04	3.13E-07	4.29E-06	1.96E-05	4.66E-08	2.64E-06	9.00E-06	1.08E-08
2689	420543.3	3734979	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.30E-09
2690	420526.6	3734972	2.55E-05	1.17E-04	2.55E-07	3.50E-06	1.60E-05	3.80E-08	2.15E-06	7.34E-06	8.82E-09
2691	420518.3	3734969	2.48E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.11E-06	8.55E-09
2692	420501.6	3734962	2.37E-05	1.08E-04	2.37E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.80E-06	8.18E-09
2693	420485	3734955	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.41E-08	1.93E-06	6.59E-06	7.92E-09
2694	420476.7	3734952	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.37E-08	1.90E-06	6.50E-06	7.81E-09
2695	420460	3734945	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
2696	420435	3734935	2.11E-05	9.63E-05	2.10E-07	2.89E-06	1.32E-05	3.13E-08	1.77E-06	6.05E-06	7.28E-09
2697	420418.3	3734929	2.03E-05	9.26E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.70E-06	5.82E-06	7.00E-09
2698	420410	3734925	1.99E-05	9.09E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
2699	420323.2	3734884	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.80E-09
2700	420302.4	3734834	1.74E-05	7.94E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	4.99E-06	6.00E-09
2701	420299	3734826	1.74E-05	7.95E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2702	420292	3734809	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.47E-06	5.01E-06	6.02E-09
2703	420285.1	3734792	1.75E-05	7.98E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.02E-06	6.03E-09
2704	420253.9	3734718	1.73E-05	7.93E-05	1.73E-07	2.38E-06	1.08E-05	2.58E-08	1.46E-06	4.98E-06	5.99E-09
2705	420247	3734701	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
2706	420222.7	3734643	1.66E-05	7.59E-05	1.66E-07	2.28E-06	1.04E-05	2.47E-08	1.40E-06	4.77E-06	5.74E-09
2707	420219.3	3734635	1.65E-05	7.54E-05	1.65E-07	2.26E-06	1.03E-05	2.45E-08	1.39E-06	4.74E-06	5.70E-09
2708	420684.9	3735036	5.15E-05	2.36E-04	5.15E-07	7.07E-06	3.22E-05	7.67E-08	4.34E-06	1.48E-05	1.78E-08
2709	420694.1	3735036	5.53E-05	2.53E-04	5.52E-07	7.58E-06	3.46E-05	8.23E-08	4.65E-06	1.59E-05	1.91E-08
2710	420703.3	3735035	5.93E-05	2.71E-04	5.93E-07	8.13E-06	3.71E-05	8.83E-08	4.99E-06	1.70E-05	2.05E-08

2711	420712.5	3735035	6.37E-05	2.91E-04	6.37E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
2712	420730.9	3735035	7.35E-05	3.36E-04	7.35E-07	1.01E-05	4.60E-05	1.09E-07	6.19E-06	2.11E-05	2.54E-08
2713	420677.1	3735072	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
2714	420668.7	3735069	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.50E-05	5.94E-08	3.36E-06	1.15E-05	1.38E-08
2715	420660.3	3735066	3.83E-05	1.75E-04	3.83E-07	5.25E-06	2.39E-05	5.70E-08	3.22E-06	1.10E-05	1.32E-08
2716	420651.9	3735062	3.67E-05	1.68E-04	3.67E-07	5.04E-06	2.30E-05	5.47E-08	3.09E-06	1.06E-05	1.27E-08
2717	420643.5	3735059	3.52E-05	1.61E-04	3.52E-07	4.83E-06	2.20E-05	5.25E-08	2.97E-06	1.01E-05	1.22E-08
2718	420635	3735055	3.38E-05	1.55E-04	3.38E-07	4.64E-06	2.11E-05	5.04E-08	2.85E-06	9.72E-06	1.17E-08
2719	420626.6	3735052	3.27E-05	1.49E-04	3.27E-07	4.48E-06	2.04E-05	4.86E-08	2.75E-06	9.39E-06	1.13E-08
2720	420618.2	3735049	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.05E-06	1.09E-08
2721	420609.8	3735045	3.04E-05	1.39E-04	3.04E-07	4.16E-06	1.90E-05	4.52E-08	2.55E-06	8.73E-06	1.05E-08
2722	420270.6	3734853	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.22E-08	1.25E-06	4.28E-06	5.14E-09
2723	420267.1	3734845	1.49E-05	6.82E-05	1.49E-07	2.04E-06	9.33E-06	2.22E-08	1.26E-06	4.29E-06	5.15E-09
2724	420260.1	3734828	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.35E-06	2.23E-08	1.26E-06	4.30E-06	5.17E-09
2725	420232.1	3734761	1.49E-05	6.81E-05	1.49E-07	2.04E-06	9.32E-06	2.22E-08	1.25E-06	4.28E-06	5.15E-09
2726	420228.6	3734753	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.21E-08	1.25E-06	4.27E-06	5.14E-09
2727	420218.1	3734728	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.22E-06	2.20E-08	1.24E-06	4.24E-06	5.10E-09
2728	420193.7	3734670	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.94E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09
2729	420186.7	3734653	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2730	420179.7	3734636	1.39E-05	6.38E-05	1.39E-07	1.91E-06	8.72E-06	2.08E-08	1.17E-06	4.01E-06	4.82E-09
2731	420685.5	3735076	4.35E-05	1.99E-04	4.34E-07	5.96E-06	2.72E-05	6.47E-08	3.66E-06	1.25E-05	1.50E-08
2732	420694.7	3735076	4.64E-05	2.12E-04	4.64E-07	6.36E-06	2.90E-05	6.90E-08	3.90E-06	1.33E-05	1.60E-08
2733	420703.9	3735075	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.10E-05	7.37E-08	4.17E-06	1.42E-05	1.71E-08
2734	420731.4	3735075	6.05E-05	2.77E-04	6.05E-07	8.30E-06	3.79E-05	9.01E-08	5.09E-06	1.74E-05	2.09E-08
2735	420740.6	3735075	6.48E-05	2.96E-04	6.47E-07	8.88E-06	4.05E-05	9.64E-08	5.45E-06	1.86E-05	2.24E-08
2736	420643.7	3735099	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.52E-08	2.56E-06	8.73E-06	1.05E-08
2737	420635.2	3735095	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
2738	420626.7	3735092	2.85E-05	1.30E-04	2.85E-07	3.90E-06	1.78E-05	4.24E-08	2.40E-06	8.18E-06	9.84E-09
2739	420618.2	3735088	2.76E-05	1.26E-04	2.76E-07	3.78E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
2740	420609.8	3735085	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.20E-09
2741	420601.3	3735082	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
2742	420592.8	3735078	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.55E-05	3.70E-08	2.09E-06	7.15E-06	8.59E-09
2743	420584.3	3735075	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.58E-08	2.03E-06	6.92E-06	8.32E-09
2744	420575.8	3735071	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.47E-08	1.96E-06	6.70E-06	8.06E-09
2745	420567.4	3735068	2.26E-05	1.04E-04	2.26E-07	3.10E-06	1.42E-05	3.37E-08	1.90E-06	6.51E-06	7.82E-09
2746	420558.9	3735065	2.20E-05	1.01E-04	2.20E-07	3.02E-06	1.38E-05	3.27E-08	1.85E-06	6.32E-06	7.60E-09
2747	420550.4	3735061	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.19E-08	1.80E-06	6.15E-06	7.39E-09
2748	420541.9	3735058	2.08E-05	9.53E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
2749	420516.5	3735048	1.94E-05	8.88E-05	1.94E-07	2.66E-06	1.21E-05	2.89E-08	1.63E-06	5.58E-06	6.71E-09
2750	420508	3735044	1.90E-05	8.69E-05	1.90E-07	2.60E-06	1.19E-05	2.83E-08	1.60E-06	5.46E-06	6.57E-09
2751	420499.5	3735041	1.86E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
2752	420491	3735037	1.81E-05	8.29E-05	1.81E-07	2.49E-06	1.13E-05	2.70E-08	1.53E-06	5.21E-06	6.27E-09
2753	420482.6	3735034	1.77E-05	8.11E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.13E-09
2754	420474.1	3735031	1.74E-05	7.95E-05	1.74E-07	2.38E-06	1.09E-05	2.59E-08	1.46E-06	5.00E-06	6.01E-09
2755	420465.6	3735027	1.71E-05	7.80E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.90E-06	5.90E-09
2756	420457.1	3735024	1.68E-05	7.67E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.80E-09
2757	420448.6	3735020	1.65E-05	7.55E-05	1.65E-07	2.26E-06	1.03E-05	2.46E-08	1.39E-06	4.75E-06	5.71E-09
2758	420440.2	3735017	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.37E-06	4.69E-06	5.64E-09
2759	420431.7	3735014	1.62E-05	7.39E-05	1.61E-07	2.21E-06	1.01E-05	2.40E-08	1.36E-06	4.64E-06	5.58E-09
2760	420423.2	3735010	1.60E-05	7.30E-05	1.60E-07	2.19E-06	9.99E-06	2.38E-08	1.34E-06	4.59E-06	5.52E-09
2761	420414.7	3735007	1.58E-05	7.23E-05	1.58E-07	2.17E-06	9.89E-06	2.36E-08	1.33E-06	4.55E-06	5.47E-09
2762	420406.2	3735003	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.34E-08	1.32E-06	4.51E-06	5.42E-09
2763	420397.7	3735000	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.74E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
2764	420389.3	3734997	1.54E-05	7.02E-05	1.54E-07	2.11E-06	9.60E-06	2.29E-08	1.29E-06	4.41E-06	5.31E-09
2765	420380.8	3734993	1.52E-05	6.93E-05	1.51E-07	2.08E-06	9.47E-06	2.26E-08	1.27E-06	4.35E-06	5.24E-09
2766	420372.3	3734990	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
2767	420363.8	3734986	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
2768	420287.5	3734956	1.28E-05	5.86E-05	1.28E-07	1.76E-06	8.01E-06	1.91E-08	1.08E-06	3.68E-06	4.43E-09
2769	420279	3734952	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09

2770	420267	3734940	1.24E-05	5.67E-05	1.24E-07	1.70E-06	7.76E-06	1.85E-08	1.04E-06	3.57E-06	4.29E-09
2771	420263.5	3734932	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
2772	420224.7	3734839	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.72E-06	4.47E-09
2773	420203.5	3734789	1.29E-05	5.89E-05	1.29E-07	1.77E-06	8.06E-06	1.92E-08	1.08E-06	3.70E-06	4.45E-09
2774	420200	3734780	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.70E-06	4.44E-09
2775	420196.5	3734772	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.02E-06	1.91E-08	1.08E-06	3.69E-06	4.43E-09
2776	420192.9	3734763	1.28E-05	5.85E-05	1.28E-07	1.75E-06	8.00E-06	1.90E-08	1.08E-06	3.68E-06	4.42E-09
2777	420161.2	3734687	1.24E-05	5.65E-05	1.24E-07	1.70E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
2778	420157.6	3734679	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.69E-06	1.83E-08	1.04E-06	3.54E-06	4.25E-09
2779	420150.6	3734662	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
2780	420147.1	3734654	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.56E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2781	420143.5	3734645	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
2782	420678.3	3735152	3.04E-05	1.39E-04	3.04E-07	4.17E-06	1.90E-05	4.52E-08	2.56E-06	8.73E-06	1.05E-08
2783	420661.5	3735146	2.82E-05	1.29E-04	2.82E-07	3.87E-06	1.76E-05	4.20E-08	2.37E-06	8.11E-06	9.75E-09
2784	420644.8	3735139	2.64E-05	1.21E-04	2.64E-07	3.62E-06	1.65E-05	3.93E-08	2.22E-06	7.59E-06	9.12E-09
2785	420628	3735132	2.48E-05	1.13E-04	2.48E-07	3.40E-06	1.55E-05	3.69E-08	2.09E-06	7.12E-06	8.57E-09
2786	420611.2	3735125	2.35E-05	1.07E-04	2.35E-07	3.22E-06	1.47E-05	3.50E-08	1.98E-06	6.75E-06	8.12E-09
2787	420602.9	3735122	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.41E-08	1.93E-06	6.58E-06	7.92E-09
2788	420586.1	3735115	2.15E-05	9.84E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
2789	420569.3	3735109	2.03E-05	9.28E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
2790	420561	3735105	1.97E-05	9.02E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.82E-09
2791	420552.6	3735102	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
2792	420535.8	3735095	1.83E-05	8.35E-05	1.83E-07	2.50E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.31E-09
2793	420502.3	3735082	1.65E-05	7.56E-05	1.65E-07	2.27E-06	1.03E-05	2.46E-08	1.39E-06	4.75E-06	5.71E-09
2794	420493.9	3735078	1.62E-05	7.42E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.66E-06	5.61E-09
2795	420485.5	3735075	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.96E-06	2.37E-08	1.34E-06	4.58E-06	5.51E-09
2796	420477.1	3735072	1.56E-05	7.15E-05	1.56E-07	2.15E-06	9.78E-06	2.33E-08	1.32E-06	4.50E-06	5.41E-09
2797	420460.4	3735065	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
2798	420443.6	3735058	1.47E-05	6.72E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.08E-09
2799	420426.9	3735051	1.44E-05	6.60E-05	1.44E-07	1.98E-06	9.03E-06	2.15E-08	1.22E-06	4.15E-06	4.99E-09
2800	420410.1	3735045	1.41E-05	6.46E-05	1.41E-07	1.94E-06	8.83E-06	2.10E-08	1.19E-06	4.06E-06	4.88E-09
2801	420401.7	3735041	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.01E-06	4.83E-09
2802	420384.9	3735035	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.54E-06	2.03E-08	1.15E-06	3.93E-06	4.72E-09
2803	420368.2	3735028	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
2804	420359.8	3735024	1.32E-05	6.03E-05	1.32E-07	1.81E-06	8.24E-06	1.96E-08	1.11E-06	3.79E-06	4.56E-09
2805	420351.4	3735021	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2806	420334.7	3735014	1.27E-05	5.82E-05	1.27E-07	1.74E-06	7.95E-06	1.89E-08	1.07E-06	3.66E-06	4.40E-09
2807	420259.2	3734984	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.37E-07	3.20E-06	3.85E-09
2808	420239	3734969	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2809	420232	3734952	1.10E-05	5.02E-05	1.10E-07	1.50E-06	6.86E-06	1.63E-08	9.23E-07	3.15E-06	3.79E-09
2810	420211.1	3734902	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2811	420204.1	3734886	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2812	420200.6	3734877	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.66E-08	9.40E-07	3.21E-06	3.86E-09
2813	420172.7	3734811	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.02E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
2814	420169.2	3734802	1.12E-05	5.12E-05	1.12E-07	1.54E-06	7.00E-06	1.67E-08	9.43E-07	3.22E-06	3.87E-09
2815	420162.3	3734786	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
2816	420158.8	3734777	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
2817	420134.4	3734719	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
2818	420127.4	3734702	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.75E-06	1.61E-08	9.08E-07	3.10E-06	3.73E-09
2819	420120.4	3734686	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.68E-06	1.59E-08	8.99E-07	3.07E-06	3.69E-09
2820	420113.5	3734669	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2821	420106.5	3734652	1.04E-05	4.78E-05	1.04E-07	1.43E-06	6.53E-06	1.55E-08	8.79E-07	3.00E-06	3.61E-09
2822	420103	3734644	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
2823	420096	3734627	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.40E-06	1.52E-08	8.61E-07	2.94E-06	3.54E-09
2824	420686.7	3735156	3.16E-05	1.44E-04	3.16E-07	4.33E-06	1.97E-05	4.70E-08	2.66E-06	9.07E-06	1.09E-08
2825	420695.9	3735156	3.35E-05	1.53E-04	3.34E-07	4.59E-06	2.09E-05	4.98E-08	2.82E-06	9.62E-06	1.16E-08
2826	420705	3735155	3.55E-05	1.63E-04	3.55E-07	4.87E-06	2.22E-05	5.29E-08	2.99E-06	1.02E-05	1.23E-08
2827	420714.2	3735155	3.78E-05	1.73E-04	3.78E-07	5.18E-06	2.36E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
2828	420732.6	3735155	4.27E-05	1.95E-04	4.27E-07	5.85E-06	2.67E-05	6.35E-08	3.59E-06	1.23E-05	1.47E-08

2829	420741.8	3735155	4.53E-05	2.07E-04	4.53E-07	6.22E-06	2.83E-05	6.75E-08	3.81E-06	1.30E-05	1.57E-08
2830	420678.8	3735192	2.67E-05	1.22E-04	2.67E-07	3.67E-06	1.67E-05	3.98E-08	2.25E-06	7.69E-06	9.24E-09
2831	420670.4	3735189	2.58E-05	1.18E-04	2.58E-07	3.54E-06	1.61E-05	3.84E-08	2.17E-06	7.42E-06	8.92E-09
2832	420661.9	3735186	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.71E-08	2.10E-06	7.16E-06	8.61E-09
2833	420653.5	3735182	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
2834	420645	3735179	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.73E-06	8.09E-09
2835	420636.6	3735175	2.27E-05	1.04E-04	2.27E-07	3.12E-06	1.42E-05	3.38E-08	1.91E-06	6.53E-06	7.85E-09
2836	420628.1	3735172	2.21E-05	1.01E-04	2.20E-07	3.02E-06	1.38E-05	3.28E-08	1.86E-06	6.34E-06	7.62E-09
2837	420619.7	3735169	2.14E-05	9.78E-05	2.14E-07	2.93E-06	1.34E-05	3.18E-08	1.80E-06	6.14E-06	7.39E-09
2838	420611.3	3735165	2.07E-05	9.48E-05	2.07E-07	2.84E-06	1.30E-05	3.09E-08	1.74E-06	5.96E-06	7.17E-09
2839	420602.8	3735162	2.01E-05	9.21E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.79E-06	6.96E-09
2840	420594.4	3735158	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.91E-08	1.65E-06	5.63E-06	6.77E-09
2841	420585.9	3735155	1.91E-05	8.73E-05	1.91E-07	2.62E-06	1.19E-05	2.84E-08	1.61E-06	5.49E-06	6.60E-09
2842	420577.5	3735152	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
2843	420569	3735148	1.82E-05	8.30E-05	1.82E-07	2.49E-06	1.14E-05	2.70E-08	1.53E-06	5.22E-06	6.28E-09
2844	420560.6	3735145	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.11E-05	2.63E-08	1.49E-06	5.08E-06	6.11E-09
2845	420552.1	3735141	1.72E-05	7.87E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.95E-06	5.95E-09
2846	420543.7	3735138	1.68E-05	7.68E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.83E-06	5.80E-09
2847	420535.3	3735135	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
2848	420526.8	3735131	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
2849	420518.4	3735128	1.55E-05	7.09E-05	1.55E-07	2.12E-06	9.69E-06	2.31E-08	1.30E-06	4.45E-06	5.36E-09
2850	420509.9	3735124	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
2851	420484.6	3735114	1.42E-05	6.50E-05	1.42E-07	1.95E-06	8.89E-06	2.12E-08	1.20E-06	4.09E-06	4.91E-09
2852	420476.2	3735111	1.40E-05	6.40E-05	1.40E-07	1.92E-06	8.76E-06	2.09E-08	1.18E-06	4.03E-06	4.84E-09
2853	420467.7	3735108	1.38E-05	6.33E-05	1.38E-07	1.90E-06	8.65E-06	2.06E-08	1.16E-06	3.98E-06	4.78E-09
2854	420459.3	3735104	1.37E-05	6.25E-05	1.37E-07	1.87E-06	8.55E-06	2.04E-08	1.15E-06	3.93E-06	4.72E-09
2855	420450.8	3735101	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.44E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
2856	420442.4	3735097	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.34E-06	1.99E-08	1.12E-06	3.83E-06	4.61E-09
2857	420433.9	3735094	1.32E-05	6.03E-05	1.32E-07	1.81E-06	8.25E-06	1.96E-08	1.11E-06	3.79E-06	4.56E-09
2858	420425.5	3735091	1.30E-05	5.97E-05	1.30E-07	1.79E-06	8.16E-06	1.94E-08	1.10E-06	3.75E-06	4.51E-09
2859	420417	3735087	1.29E-05	5.90E-05	1.29E-07	1.77E-06	8.07E-06	1.92E-08	1.09E-06	3.71E-06	4.46E-09
2860	420408.6	3735084	1.28E-05	5.83E-05	1.27E-07	1.75E-06	7.97E-06	1.90E-08	1.07E-06	3.66E-06	4.41E-09
2861	420400.2	3735080	1.26E-05	5.76E-05	1.26E-07	1.73E-06	7.88E-06	1.88E-08	1.06E-06	3.62E-06	4.36E-09
2862	420391.7	3735077	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.79E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
2863	420383.3	3735074	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.71E-06	1.84E-08	1.04E-06	3.54E-06	4.26E-09
2864	420374.8	3735070	1.22E-05	5.59E-05	1.22E-07	1.67E-06	7.64E-06	1.82E-08	1.03E-06	3.51E-06	4.22E-09
2865	420366.4	3735067	1.21E-05	5.53E-05	1.21E-07	1.66E-06	7.56E-06	1.80E-08	1.02E-06	3.48E-06	4.18E-09
2866	420357.9	3735063	1.20E-05	5.47E-05	1.20E-07	1.64E-06	7.48E-06	1.78E-08	1.01E-06	3.44E-06	4.13E-09
2867	420349.5	3735060	1.18E-05	5.41E-05	1.18E-07	1.62E-06	7.39E-06	1.76E-08	9.95E-07	3.40E-06	4.09E-09
2868	420341	3735057	1.17E-05	5.34E-05	1.17E-07	1.60E-06	7.30E-06	1.74E-08	9.83E-07	3.36E-06	4.04E-09
2869	420332.6	3735053	1.15E-05	5.28E-05	1.15E-07	1.58E-06	7.22E-06	1.72E-08	9.71E-07	3.32E-06	3.99E-09
2870	420324.2	3735050	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.13E-06	1.70E-08	9.59E-07	3.28E-06	3.94E-09
2871	420315.7	3735046	1.13E-05	5.15E-05	1.13E-07	1.54E-06	7.04E-06	1.68E-08	9.48E-07	3.24E-06	3.89E-09
2872	420307.3	3735043	1.11E-05	5.09E-05	1.11E-07	1.53E-06	6.96E-06	1.66E-08	9.36E-07	3.20E-06	3.85E-09
2873	420298.8	3735040	1.10E-05	5.02E-05	1.10E-07	1.51E-06	6.87E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
2874	420290.4	3735036	1.09E-05	4.96E-05	1.08E-07	1.49E-06	6.79E-06	1.62E-08	9.13E-07	3.12E-06	3.75E-09
2875	420281.9	3735033	1.07E-05	4.90E-05	1.07E-07	1.47E-06	6.70E-06	1.59E-08	9.01E-07	3.08E-06	3.70E-09
2876	420273.5	3735030	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
2877	420265	3735026	1.04E-05	4.77E-05	1.04E-07	1.43E-06	6.52E-06	1.55E-08	8.77E-07	3.00E-06	3.60E-09
2878	420256.6	3735023	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.96E-06	3.55E-09
2879	420248.2	3735019	1.01E-05	4.64E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.54E-07	2.92E-06	3.51E-09
2880	420239.7	3735016	1.00E-05	4.57E-05	9.99E-08	1.37E-06	6.25E-06	1.49E-08	8.41E-07	2.87E-06	3.46E-09
2881	420231.3	3735013	9.85E-06	4.50E-05	9.84E-08	1.35E-06	6.16E-06	1.47E-08	8.29E-07	2.83E-06	3.40E-09
2882	420222.8	3735009	9.70E-06	4.43E-05	9.69E-08	1.33E-06	6.06E-06	1.44E-08	8.16E-07	2.79E-06	3.35E-09
2883	420210.9	3734997	9.58E-06	4.38E-05	9.58E-08	1.31E-06	5.99E-06	1.43E-08	8.06E-07	2.75E-06	3.31E-09
2884	420207.4	3734989	9.63E-06	4.40E-05	9.63E-08	1.32E-06	6.02E-06	1.43E-08	8.10E-07	2.77E-06	3.33E-09
2885	420203.8	3734981	9.68E-06	4.42E-05	9.67E-08	1.33E-06	6.05E-06	1.44E-08	8.14E-07	2.78E-06	3.34E-09
2886	420196.8	3734964	9.76E-06	4.46E-05	9.75E-08	1.34E-06	6.10E-06	1.45E-08	8.21E-07	2.80E-06	3.37E-09
2887	420189.8	3734947	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09

2888	420182.8	3734930	9.86E-06	4.51E-05	9.86E-08	1.35E-06	6.17E-06	1.47E-08	8.30E-07	2.83E-06	3.41E-09
2889	420179.3	3734922	9.88E-06	4.52E-05	9.88E-08	1.35E-06	6.18E-06	1.47E-08	8.31E-07	2.84E-06	3.41E-09
2890	420172.2	3734905	9.92E-06	4.53E-05	9.91E-08	1.36E-06	6.20E-06	1.48E-08	8.34E-07	2.85E-06	3.43E-09
2891	420165.2	3734888	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
2892	420133.6	3734813	9.84E-06	4.50E-05	9.84E-08	1.35E-06	6.15E-06	1.47E-08	8.28E-07	2.83E-06	3.40E-09
2893	420130.1	3734804	9.82E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
2894	420098.5	3734729	9.48E-06	4.33E-05	9.48E-08	1.30E-06	5.93E-06	1.41E-08	7.98E-07	2.72E-06	3.28E-09
2895	420091.4	3734712	9.36E-06	4.28E-05	9.36E-08	1.28E-06	5.85E-06	1.39E-08	7.88E-07	2.69E-06	3.24E-09
2896	420087.9	3734704	9.31E-06	4.26E-05	9.30E-08	1.28E-06	5.82E-06	1.39E-08	7.83E-07	2.67E-06	3.22E-09
2897	420080.9	3734687	9.26E-06	4.24E-05	9.26E-08	1.27E-06	5.79E-06	1.38E-08	7.79E-07	2.66E-06	3.20E-09
2898	420073.9	3734670	9.23E-06	4.22E-05	9.22E-08	1.26E-06	5.77E-06	1.37E-08	7.76E-07	2.65E-06	3.19E-09
2899	420066.9	3734653	9.12E-06	4.17E-05	9.12E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
2900	420063.3	3734645	9.07E-06	4.15E-05	9.06E-08	1.24E-06	5.67E-06	1.35E-08	7.63E-07	2.61E-06	3.13E-09
2901	420056.3	3734628	8.95E-06	4.09E-05	8.94E-08	1.23E-06	5.60E-06	1.33E-08	7.53E-07	2.57E-06	3.09E-09
2902	420687.3	3735196	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.96E-06	9.58E-09
2903	420696.4	3735196	2.93E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.36E-08	2.46E-06	8.41E-06	1.01E-08
2904	420705.6	3735195	3.10E-05	1.42E-04	3.09E-07	4.24E-06	1.94E-05	4.61E-08	2.60E-06	8.90E-06	1.07E-08
2905	420733.2	3735195	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08
2906	420742.4	3735195	3.95E-05	1.80E-04	3.94E-07	5.41E-06	2.47E-05	5.87E-08	3.32E-06	1.13E-05	1.36E-08
2907	420679.3	3735232	2.38E-05	1.09E-04	2.38E-07	3.27E-06	1.49E-05	3.55E-08	2.01E-06	6.85E-06	8.24E-09
2908	420670.8	3735229	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.62E-06	7.96E-09
2909	420662.3	3735225	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.41E-06	7.71E-09
2910	420653.8	3735222	2.16E-05	9.89E-05	2.16E-07	2.96E-06	1.35E-05	3.22E-08	1.82E-06	6.21E-06	7.47E-09
2911	420645.3	3735219	2.10E-05	9.59E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
2912	420636.8	3735215	2.04E-05	9.31E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.04E-09
2913	420628.3	3735212	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
2914	420619.8	3735208	1.92E-05	8.79E-05	1.92E-07	2.64E-06	1.20E-05	2.86E-08	1.62E-06	5.53E-06	6.65E-09
2915	420611.3	3735205	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.38E-06	6.46E-09
2916	420602.8	3735202	1.82E-05	8.32E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
2917	420594.3	3735198	1.77E-05	8.09E-05	1.77E-07	2.43E-06	1.11E-05	2.64E-08	1.49E-06	5.09E-06	6.12E-09
2918	420585.8	3735195	1.72E-05	7.86E-05	1.72E-07	2.36E-06	1.08E-05	2.56E-08	1.45E-06	4.94E-06	5.94E-09
2919	420577.3	3735191	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.81E-06	5.78E-09
2920	420568.8	3735188	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.63E-09
2921	420560.3	3735184	1.59E-05	7.25E-05	1.59E-07	2.17E-06	9.92E-06	2.36E-08	1.33E-06	4.56E-06	5.48E-09
2922	420551.8	3735181	1.55E-05	7.07E-05	1.55E-07	2.12E-06	9.67E-06	2.30E-08	1.30E-06	4.44E-06	5.34E-09
2923	420543.3	3735178	1.51E-05	6.90E-05	1.51E-07	2.07E-06	9.43E-06	2.25E-08	1.27E-06	4.34E-06	5.21E-09
2924	420534.8	3735174	1.47E-05	6.74E-05	1.47E-07	2.02E-06	9.21E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
2925	420526.3	3735171	1.44E-05	6.58E-05	1.44E-07	1.97E-06	9.00E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
2926	420517.8	3735167	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
2927	420509.3	3735164	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
2928	420500.8	3735161	1.34E-05	6.15E-05	1.34E-07	1.84E-06	8.41E-06	2.00E-08	1.13E-06	3.86E-06	4.65E-09
2929	420466.8	3735147	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
2930	420458.3	3735144	1.24E-05	5.68E-05	1.24E-07	1.70E-06	7.77E-06	1.85E-08	1.05E-06	3.57E-06	4.29E-09
2931	420449.8	3735140	1.23E-05	5.62E-05	1.23E-07	1.68E-06	7.68E-06	1.83E-08	1.03E-06	3.53E-06	4.25E-09
2932	420441.3	3735137	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.59E-06	1.81E-08	1.02E-06	3.49E-06	4.19E-09
2933	420432.8	3735133	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
2934	420424.3	3735130	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	9.99E-07	3.41E-06	4.10E-09
2935	420415.8	3735126	1.17E-05	5.37E-05	1.17E-07	1.61E-06	7.34E-06	1.75E-08	9.87E-07	3.37E-06	4.06E-09
2936	420407.3	3735123	1.16E-05	5.30E-05	1.16E-07	1.59E-06	7.25E-06	1.73E-08	9.76E-07	3.33E-06	4.01E-09
2937	420398.8	3735120	1.15E-05	5.24E-05	1.15E-07	1.57E-06	7.17E-06	1.71E-08	9.65E-07	3.30E-06	3.96E-09
2938	420390.3	3735116	1.13E-05	5.18E-05	1.13E-07	1.55E-06	7.09E-06	1.69E-08	9.54E-07	3.26E-06	3.92E-09
2939	420381.8	3735113	1.12E-05	5.13E-05	1.12E-07	1.54E-06	7.01E-06	1.67E-08	9.44E-07	3.22E-06	3.88E-09
2940	420373.3	3735109	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.93E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
2941	420364.8	3735106	1.09E-05	5.00E-05	1.09E-07	1.50E-06	6.84E-06	1.63E-08	9.20E-07	3.14E-06	3.78E-09
2942	420356.3	3735103	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
2943	420347.8	3735099	1.07E-05	4.91E-05	1.07E-07	1.47E-06	6.71E-06	1.60E-08	9.03E-07	3.08E-06	3.71E-09
2944	420339.3	3735096	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.65E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
2945	420330.8	3735092	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.63E-09
2946	420322.3	3735089	1.04E-05	4.76E-05	1.04E-07	1.43E-06	6.50E-06	1.55E-08	8.75E-07	2.99E-06	3.60E-09

2947	420313.8	3735085	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
2948	420305.3	3735082	1.02E-05	4.65E-05	1.02E-07	1.40E-06	6.36E-06	1.51E-08	8.56E-07	2.92E-06	3.52E-09
2949	420296.8	3735079	1.01E-05	4.60E-05	1.01E-07	1.38E-06	6.29E-06	1.50E-08	8.47E-07	2.89E-06	3.48E-09
2950	420288.3	3735075	9.94E-06	4.55E-05	9.94E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
2951	420279.8	3735072	9.83E-06	4.49E-05	9.82E-08	1.35E-06	6.14E-06	1.46E-08	8.27E-07	2.82E-06	3.40E-09
2952	420271.3	3735068	9.71E-06	4.44E-05	9.71E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.36E-09
2953	420262.8	3735065	9.59E-06	4.39E-05	9.59E-08	1.32E-06	6.00E-06	1.43E-08	8.07E-07	2.76E-06	3.32E-09
2954	420254.3	3735062	9.48E-06	4.33E-05	9.47E-08	1.30E-06	5.92E-06	1.41E-08	7.97E-07	2.72E-06	3.27E-09
2955	420245.8	3735058	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
2956	420237.3	3735055	9.24E-06	4.22E-05	9.24E-08	1.27E-06	5.78E-06	1.38E-08	7.77E-07	2.66E-06	3.19E-09
2957	420228.8	3735051	9.12E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
2958	420220.3	3735048	9.00E-06	4.11E-05	8.99E-08	1.23E-06	5.63E-06	1.34E-08	7.57E-07	2.59E-06	3.11E-09
2959	420211.8	3735045	8.88E-06	4.06E-05	8.88E-08	1.22E-06	5.55E-06	1.32E-08	7.47E-07	2.55E-06	3.07E-09
2960	420203.3	3735041	8.76E-06	4.00E-05	8.75E-08	1.20E-06	5.48E-06	1.30E-08	7.37E-07	2.52E-06	3.03E-09
2961	420194.8	3735038	8.64E-06	3.95E-05	8.64E-08	1.18E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.99E-09
2962	420182.8	3735026	8.56E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
2963	420175.7	3735009	8.63E-06	3.94E-05	8.62E-08	1.18E-06	5.39E-06	1.28E-08	7.26E-07	2.48E-06	2.98E-09
2964	420172.2	3735000	8.65E-06	3.95E-05	8.64E-08	1.19E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.99E-09
2965	420168.6	3734992	8.68E-06	3.97E-05	8.67E-08	1.19E-06	5.42E-06	1.29E-08	7.30E-07	2.49E-06	3.00E-09
2966	420165.1	3734984	8.70E-06	3.98E-05	8.70E-08	1.19E-06	5.44E-06	1.30E-08	7.32E-07	2.50E-06	3.01E-09
2967	420158	3734967	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2968	420154.5	3734958	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
2969	420150.9	3734950	8.81E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.05E-09
2970	420147.4	3734941	8.82E-06	4.03E-05	8.82E-08	1.21E-06	5.52E-06	1.31E-08	7.42E-07	2.54E-06	3.05E-09
2971	420140.3	3734924	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2972	420136.8	3734916	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2973	420133.3	3734908	8.83E-06	4.04E-05	8.83E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2974	420129.7	3734899	8.83E-06	4.04E-05	8.82E-08	1.21E-06	5.52E-06	1.31E-08	7.43E-07	2.54E-06	3.05E-09
2975	420122.7	3734882	8.82E-06	4.03E-05	8.81E-08	1.21E-06	5.51E-06	1.31E-08	7.42E-07	2.53E-06	3.05E-09
2976	420119.1	3734874	8.81E-06	4.03E-05	8.80E-08	1.21E-06	5.51E-06	1.31E-08	7.41E-07	2.53E-06	3.04E-09
2977	420115.6	3734865	8.80E-06	4.02E-05	8.79E-08	1.21E-06	5.50E-06	1.31E-08	7.40E-07	2.53E-06	3.04E-09
2978	420112	3734857	8.79E-06	4.02E-05	8.78E-08	1.20E-06	5.49E-06	1.31E-08	7.39E-07	2.52E-06	3.04E-09
2979	420105	3734840	8.75E-06	4.00E-05	8.75E-08	1.20E-06	5.47E-06	1.30E-08	7.36E-07	2.52E-06	3.03E-09
2980	420101.4	3734831	8.74E-06	4.00E-05	8.74E-08	1.20E-06	5.46E-06	1.30E-08	7.35E-07	2.51E-06	3.02E-09
2981	420076.7	3734772	8.59E-06	3.93E-05	8.58E-08	1.18E-06	5.37E-06	1.28E-08	7.22E-07	2.47E-06	2.97E-09
2982	420069.6	3734755	8.52E-06	3.90E-05	8.52E-08	1.17E-06	5.33E-06	1.27E-08	7.17E-07	2.45E-06	2.94E-09
2983	420059	3734730	8.39E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
2984	420051.9	3734713	8.24E-06	3.77E-05	8.24E-08	1.13E-06	5.15E-06	1.23E-08	6.93E-07	2.37E-06	2.85E-09
2985	420048.4	3734705	8.17E-06	3.74E-05	8.17E-08	1.12E-06	5.11E-06	1.22E-08	6.88E-07	2.35E-06	2.82E-09
2986	420044.9	3734696	8.13E-06	3.72E-05	8.12E-08	1.11E-06	5.08E-06	1.21E-08	6.84E-07	2.34E-06	2.81E-09
2987	420041.3	3734688	8.10E-06	3.71E-05	8.10E-08	1.11E-06	5.07E-06	1.21E-08	6.82E-07	2.33E-06	2.80E-09
2988	420034.3	3734671	8.04E-06	3.68E-05	8.04E-08	1.10E-06	5.03E-06	1.20E-08	6.77E-07	2.31E-06	2.78E-09
2989	420030.7	3734662	8.04E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2990	420027.2	3734654	8.04E-06	3.67E-05	8.03E-08	1.10E-06	5.02E-06	1.20E-08	6.76E-07	2.31E-06	2.78E-09
2991	420023.6	3734646	7.99E-06	3.65E-05	7.98E-08	1.09E-06	4.99E-06	1.19E-08	6.72E-07	2.29E-06	2.76E-09
2992	420687.8	3735236	2.47E-05	1.13E-04	2.47E-07	3.38E-06	1.54E-05	3.67E-08	2.08E-06	7.09E-06	8.53E-09
2993	420697	3735236	2.59E-05	1.19E-04	2.59E-07	3.56E-06	1.62E-05	3.86E-08	2.18E-06	7.45E-06	8.96E-09
2994	420706.2	3735235	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.84E-06	9.43E-09
2995	420733.8	3735235	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.22E-06	1.11E-08
2996	420743	3735235	3.39E-05	1.55E-04	3.39E-07	4.65E-06	2.12E-05	5.05E-08	2.86E-06	9.75E-06	1.17E-08
2997	420771.6	3734562	1.30E-02	5.93E-02	1.30E-04	1.78E-03	8.11E-03	1.93E-05	1.09E-03	3.73E-03	4.48E-06
2998	420782.1	3734561	1.10E-02	5.01E-02	1.10E-04	1.50E-03	6.85E-03	1.63E-05	9.22E-04	3.15E-03	3.79E-06
2999	420766.7	3734581	1.05E-02	4.78E-02	1.04E-04	1.43E-03	6.54E-03	1.56E-05	8.79E-04	3.00E-03	3.61E-06
3000	420793	3734527	9.67E-03	4.42E-02	9.66E-05	1.33E-03	6.04E-03	1.44E-05	8.13E-04	2.78E-03	3.34E-06
3001	420793.3	3734517	9.18E-03	4.20E-02	9.17E-05	1.26E-03	5.74E-03	1.37E-05	7.72E-04	2.64E-03	3.17E-06
3002	420793.6	3734507	8.46E-03	3.87E-02	8.45E-05	1.16E-03	5.29E-03	1.26E-05	7.12E-04	2.43E-03	2.92E-06
3003	420792.4	3734561	9.24E-03	4.22E-02	9.23E-05	1.27E-03	5.78E-03	1.38E-05	7.77E-04	2.65E-03	3.19E-06
3004	420785.5	3734577	8.97E-03	4.10E-02	8.97E-05	1.23E-03	5.61E-03	1.34E-05	7.55E-04	2.58E-03	3.10E-06
3005	420774	3734588	8.79E-03	4.02E-02	8.78E-05	1.20E-03	5.49E-03	1.31E-05	7.39E-04	2.52E-03	3.04E-06

3006	420757.9	3734595	8.54E-03	3.90E-02	8.53E-05	1.17E-03	5.34E-03	1.27E-05	7.18E-04	2.45E-03	2.95E-06
3007	420803	3734527	7.78E-03	3.56E-02	7.78E-05	1.07E-03	4.86E-03	1.16E-05	6.54E-04	2.24E-03	2.69E-06
3008	420803.3	3734517	7.33E-03	3.35E-02	7.32E-05	1.00E-03	4.58E-03	1.09E-05	6.16E-04	2.11E-03	2.53E-06
3009	420803.6	3734507	6.72E-03	3.07E-02	6.72E-05	9.22E-04	4.20E-03	1.00E-05	5.66E-04	1.93E-03	2.32E-06
3010	420800.9	3734564	7.86E-03	3.59E-02	7.86E-05	1.08E-03	4.91E-03	1.17E-05	6.61E-04	2.26E-03	2.72E-06
3011	420796.9	3734574	7.88E-03	3.60E-02	7.88E-05	1.08E-03	4.93E-03	1.17E-05	6.63E-04	2.26E-03	2.72E-06
3012	420793	3734583	7.68E-03	3.51E-02	7.67E-05	1.05E-03	4.80E-03	1.14E-05	6.46E-04	2.21E-03	2.65E-06
3013	420779.8	3734596	7.50E-03	3.43E-02	7.50E-05	1.03E-03	4.69E-03	1.12E-05	6.31E-04	2.16E-03	2.59E-06
3014	420770.7	3734600	7.49E-03	3.43E-02	7.49E-05	1.03E-03	4.68E-03	1.12E-05	6.30E-04	2.15E-03	2.59E-06
3015	420761.5	3734603	7.21E-03	3.30E-02	7.20E-05	9.88E-04	4.51E-03	1.07E-05	6.06E-04	2.07E-03	2.49E-06
3016	420812.8	3734537	6.60E-03	3.02E-02	6.60E-05	9.05E-04	4.13E-03	9.83E-06	5.56E-04	1.90E-03	2.28E-06
3017	420813	3734527	6.34E-03	2.90E-02	6.33E-05	8.69E-04	3.96E-03	9.43E-06	5.33E-04	1.82E-03	2.19E-06
3018	420813.3	3734517	5.94E-03	2.71E-02	5.93E-05	8.14E-04	3.71E-03	8.84E-06	4.99E-04	1.71E-03	2.05E-06
3019	420813.6	3734507	5.44E-03	2.49E-02	5.44E-05	7.46E-04	3.40E-03	8.10E-06	4.58E-04	1.56E-03	1.88E-06
3020	420811.3	3734564	6.67E-03	3.05E-02	6.67E-05	9.14E-04	4.17E-03	9.93E-06	5.61E-04	1.92E-03	2.30E-06
3021	420807.5	3734573	6.80E-03	3.11E-02	6.80E-05	9.33E-04	4.25E-03	1.01E-05	5.72E-04	1.95E-03	2.35E-06
3022	420803.7	3734581	6.78E-03	3.10E-02	6.77E-05	9.29E-04	4.24E-03	1.01E-05	5.70E-04	1.95E-03	2.34E-06
3023	420799.9	3734590	6.59E-03	3.01E-02	6.59E-05	9.04E-04	4.12E-03	9.81E-06	5.55E-04	1.89E-03	2.28E-06
3024	420787.2	3734603	6.46E-03	2.95E-02	6.46E-05	8.86E-04	4.04E-03	9.62E-06	5.44E-04	1.86E-03	2.23E-06
3025	420778.3	3734606	6.48E-03	2.96E-02	6.48E-05	8.89E-04	4.05E-03	9.65E-06	5.46E-04	1.86E-03	2.24E-06
3026	420769.5	3734610	6.32E-03	2.89E-02	6.31E-05	8.66E-04	3.95E-03	9.40E-06	5.31E-04	1.82E-03	2.18E-06
3027	420760.6	3734614	5.94E-03	2.72E-02	5.94E-05	8.15E-04	3.72E-03	8.85E-06	5.00E-04	1.71E-03	2.05E-06
3028	420751.8	3734618	5.39E-03	2.46E-02	5.38E-05	7.38E-04	3.37E-03	8.02E-06	4.53E-04	1.55E-03	1.86E-06
3029	420822.8	3734537	5.49E-03	2.51E-02	5.48E-05	7.52E-04	3.43E-03	8.17E-06	4.62E-04	1.58E-03	1.90E-06
3030	420823	3734527	5.23E-03	2.39E-02	5.23E-05	7.17E-04	3.27E-03	7.79E-06	4.40E-04	1.50E-03	1.81E-06
3031	420823.3	3734517	4.88E-03	2.23E-02	4.88E-05	6.69E-04	3.05E-03	7.27E-06	4.11E-04	1.40E-03	1.69E-06
3032	420823.6	3734507	4.47E-03	2.04E-02	4.46E-05	6.12E-04	2.79E-03	6.65E-06	3.76E-04	1.28E-03	1.54E-06
3033	420821.6	3734563	5.67E-03	2.59E-02	5.67E-05	7.78E-04	3.55E-03	8.44E-06	4.77E-04	1.63E-03	1.96E-06
3034	420817.9	3734572	5.86E-03	2.68E-02	5.85E-05	8.03E-04	3.66E-03	8.72E-06	4.93E-04	1.68E-03	2.02E-06
3035	420814.2	3734580	5.93E-03	2.71E-02	5.92E-05	8.12E-04	3.71E-03	8.82E-06	4.99E-04	1.70E-03	2.05E-06
3036	420810.5	3734589	5.88E-03	2.69E-02	5.88E-05	8.06E-04	3.68E-03	8.75E-06	4.95E-04	1.69E-03	2.03E-06
3037	420806.8	3734598	5.72E-03	2.62E-02	5.72E-05	7.84E-04	3.58E-03	8.52E-06	4.81E-04	1.64E-03	1.98E-06
3038	420794.5	3734610	5.62E-03	2.57E-02	5.62E-05	7.70E-04	3.51E-03	8.37E-06	4.73E-04	1.61E-03	1.94E-06
3039	420785.9	3734613	5.66E-03	2.59E-02	5.66E-05	7.76E-04	3.54E-03	8.42E-06	4.76E-04	1.63E-03	1.96E-06
3040	420777.3	3734617	5.56E-03	2.54E-02	5.56E-05	7.62E-04	3.47E-03	8.27E-06	4.68E-04	1.60E-03	1.92E-06
3041	420768.7	3734621	5.31E-03	2.43E-02	5.31E-05	7.28E-04	3.32E-03	7.91E-06	4.47E-04	1.53E-03	1.84E-06
3042	420760.1	3734624	4.92E-03	2.25E-02	4.92E-05	6.75E-04	3.08E-03	7.32E-06	4.14E-04	1.41E-03	1.70E-06
3043	420751.5	3734628	4.41E-03	2.02E-02	4.41E-05	6.05E-04	2.76E-03	6.57E-06	3.71E-04	1.27E-03	1.53E-06
3044	420832.8	3734538	4.60E-03	2.10E-02	4.60E-05	6.31E-04	2.88E-03	6.85E-06	3.87E-04	1.32E-03	1.59E-06
3045	420833	3734528	4.37E-03	2.00E-02	4.36E-05	5.98E-04	2.73E-03	6.50E-06	3.67E-04	1.25E-03	1.51E-06
3046	420833.3	3734518	4.06E-03	1.86E-02	4.06E-05	5.57E-04	2.54E-03	6.05E-06	3.42E-04	1.17E-03	1.40E-06
3047	420833.6	3734508	3.72E-03	1.70E-02	3.71E-05	5.09E-04	2.32E-03	5.53E-06	3.13E-04	1.07E-03	1.28E-06
3048	420840.9	3734566	4.23E-03	1.93E-02	4.23E-05	5.80E-04	2.64E-03	6.29E-06	3.56E-04	1.21E-03	1.46E-06
3049	420836.9	3734575	4.43E-03	2.02E-02	4.42E-05	6.07E-04	2.77E-03	6.59E-06	3.72E-04	1.27E-03	1.53E-06
3050	420833	3734584	4.55E-03	2.08E-02	4.55E-05	6.24E-04	2.85E-03	6.78E-06	3.83E-04	1.31E-03	1.57E-06
3051	420829	3734593	4.60E-03	2.10E-02	4.59E-05	6.30E-04	2.87E-03	6.84E-06	3.87E-04	1.32E-03	1.59E-06
3052	420825	3734602	4.56E-03	2.08E-02	4.56E-05	6.25E-04	2.85E-03	6.79E-06	3.83E-04	1.31E-03	1.58E-06
3053	420821.1	3734611	4.44E-03	2.03E-02	4.44E-05	6.09E-04	2.78E-03	6.61E-06	3.74E-04	1.28E-03	1.53E-06
3054	420808	3734624	4.37E-03	2.00E-02	4.37E-05	6.00E-04	2.74E-03	6.51E-06	3.68E-04	1.26E-03	1.51E-06
3055	420798.8	3734628	4.41E-03	2.02E-02	4.41E-05	6.05E-04	2.76E-03	6.57E-06	3.71E-04	1.27E-03	1.53E-06
3056	420789.6	3734632	4.35E-03	1.99E-02	4.35E-05	5.96E-04	2.72E-03	6.48E-06	3.66E-04	1.25E-03	1.50E-06
3057	420780.4	3734636	4.18E-03	1.91E-02	4.18E-05	5.73E-04	2.62E-03	6.23E-06	3.52E-04	1.20E-03	1.45E-06
3058	420771.2	3734640	3.91E-03	1.79E-02	3.91E-05	5.37E-04	2.45E-03	5.83E-06	3.29E-04	1.12E-03	1.35E-06
3059	420762.1	3734643	3.56E-03	1.63E-02	3.56E-05	4.88E-04	2.22E-03	5.30E-06	2.99E-04	1.02E-03	1.23E-06
3060	420752.9	3734647	3.14E-03	1.43E-02	3.14E-05	4.30E-04	1.96E-03	4.67E-06	2.64E-04	9.02E-04	1.08E-06
3061	420743.7	3734651	2.69E-03	1.23E-02	2.69E-05	3.68E-04	1.68E-03	4.00E-06	2.26E-04	7.72E-04	9.29E-07
3062	420861.4	3734565	3.15E-03	1.44E-02	3.15E-05	4.32E-04	1.97E-03	4.70E-06	2.65E-04	9.06E-04	1.09E-06
3063	420857.6	3734574	3.34E-03	1.53E-02	3.34E-05	4.58E-04	2.09E-03	4.97E-06	2.81E-04	9.59E-04	1.15E-06
3064	420853.9	3734582	3.49E-03	1.59E-02	3.48E-05	4.78E-04	2.18E-03	5.19E-06	2.93E-04	1.00E-03	1.20E-06

3065	420850.1	3734591	3.59E-03	1.64E-02	3.59E-05	4.92E-04	2.25E-03	5.35E-06	3.02E-04	1.03E-03	1.24E-06
3066	420846.3	3734600	3.65E-03	1.67E-02	3.65E-05	5.00E-04	2.28E-03	5.43E-06	3.07E-04	1.05E-03	1.26E-06
3067	420842.5	3734608	3.66E-03	1.67E-02	3.66E-05	5.02E-04	2.29E-03	5.45E-06	3.08E-04	1.05E-03	1.26E-06
3068	420838.7	3734617	3.62E-03	1.65E-02	3.62E-05	4.96E-04	2.26E-03	5.39E-06	3.04E-04	1.04E-03	1.25E-06
3069	420835	3734626	3.53E-03	1.61E-02	3.53E-05	4.84E-04	2.21E-03	5.25E-06	2.97E-04	1.01E-03	1.22E-06
3070	420822.4	3734638	3.49E-03	1.60E-02	3.49E-05	4.79E-04	2.18E-03	5.20E-06	2.94E-04	1.00E-03	1.21E-06
3071	420813.7	3734642	3.53E-03	1.61E-02	3.53E-05	4.84E-04	2.21E-03	5.25E-06	2.97E-04	1.01E-03	1.22E-06
3072	420804.9	3734646	3.51E-03	1.61E-02	3.51E-05	4.81E-04	2.19E-03	5.23E-06	2.95E-04	1.01E-03	1.21E-06
3073	420796.1	3734649	3.43E-03	1.57E-02	3.43E-05	4.71E-04	2.15E-03	5.11E-06	2.89E-04	9.87E-04	1.19E-06
3074	420787.4	3734653	3.29E-03	1.50E-02	3.29E-05	4.51E-04	2.06E-03	4.90E-06	2.77E-04	9.46E-04	1.14E-06
3075	420778.6	3734657	3.09E-03	1.41E-02	3.09E-05	4.23E-04	1.93E-03	4.60E-06	2.60E-04	8.88E-04	1.07E-06
3076	420769.9	3734660	2.83E-03	1.30E-02	2.83E-05	3.89E-04	1.77E-03	4.22E-06	2.38E-04	8.14E-04	9.79E-07
3077	420761.1	3734664	2.54E-03	1.16E-02	2.54E-05	3.49E-04	1.59E-03	3.79E-06	2.14E-04	7.31E-04	8.79E-07
3078	420752.3	3734668	2.23E-03	1.02E-02	2.23E-05	3.06E-04	1.40E-03	3.32E-06	1.88E-04	6.41E-04	7.71E-07
3079	420743.6	3734671	1.92E-03	8.78E-03	1.92E-05	2.63E-04	1.20E-03	2.86E-06	1.62E-04	5.52E-04	6.64E-07
3080	420880.9	3734567	2.44E-03	1.12E-02	2.44E-05	3.35E-04	1.53E-03	3.64E-06	2.06E-04	7.02E-04	8.45E-07
3081	420876.9	3734576	2.60E-03	1.19E-02	2.60E-05	3.57E-04	1.63E-03	3.88E-06	2.19E-04	7.48E-04	9.00E-07
3082	420872.9	3734585	2.74E-03	1.25E-02	2.74E-05	3.76E-04	1.71E-03	4.08E-06	2.30E-04	7.87E-04	9.47E-07
3083	420869	3734594	2.85E-03	1.30E-02	2.85E-05	3.91E-04	1.78E-03	4.24E-06	2.40E-04	8.19E-04	9.85E-07
3084	420865	3734603	2.93E-03	1.34E-02	2.93E-05	4.02E-04	1.83E-03	4.36E-06	2.47E-04	8.42E-04	1.01E-06
3085	420861.1	3734612	2.97E-03	1.36E-02	2.97E-05	4.07E-04	1.86E-03	4.42E-06	2.50E-04	8.54E-04	1.03E-06
3086	420857.1	3734621	2.98E-03	1.36E-02	2.97E-05	4.08E-04	1.86E-03	4.43E-06	2.50E-04	8.55E-04	1.03E-06
3087	420853.2	3734631	2.94E-03	1.35E-02	2.94E-05	4.03E-04	1.84E-03	4.38E-06	2.48E-04	8.45E-04	1.02E-06
3088	420849.2	3734640	2.87E-03	1.31E-02	2.87E-05	3.94E-04	1.80E-03	4.28E-06	2.42E-04	8.26E-04	9.93E-07
3089	420836.1	3734653	2.85E-03	1.30E-02	2.84E-05	3.90E-04	1.78E-03	4.24E-06	2.39E-04	8.18E-04	9.83E-07
3090	420826.9	3734656	2.88E-03	1.32E-02	2.88E-05	3.95E-04	1.80E-03	4.28E-06	2.42E-04	8.27E-04	9.95E-07
3091	420817.7	3734660	2.87E-03	1.31E-02	2.87E-05	3.93E-04	1.79E-03	4.27E-06	2.41E-04	8.24E-04	9.91E-07
3092	420808.5	3734664	2.81E-03	1.29E-02	2.81E-05	3.85E-04	1.76E-03	4.19E-06	2.37E-04	8.08E-04	9.72E-07
3093	420799.4	3734668	2.71E-03	1.24E-02	2.71E-05	3.72E-04	1.70E-03	4.04E-06	2.28E-04	7.79E-04	9.37E-07
3094	420790.2	3734672	2.57E-03	1.17E-02	2.56E-05	3.52E-04	1.60E-03	3.82E-06	2.16E-04	7.37E-04	8.87E-07
3095	420781	3734676	2.38E-03	1.09E-02	2.38E-05	3.26E-04	1.49E-03	3.54E-06	2.00E-04	6.84E-04	8.23E-07
3096	420771.8	3734680	2.16E-03	9.89E-03	2.16E-05	2.96E-04	1.35E-03	3.22E-06	1.82E-04	6.21E-04	7.47E-07
3097	420762.6	3734683	1.92E-03	8.80E-03	1.92E-05	2.64E-04	1.20E-03	2.86E-06	1.62E-04	5.53E-04	6.65E-07
3098	420753.5	3734687	1.68E-03	7.67E-03	1.68E-05	2.30E-04	1.05E-03	2.50E-06	1.41E-04	4.82E-04	5.80E-07
3099	420744.3	3734691	1.44E-03	6.58E-03	1.44E-05	1.97E-04	8.99E-04	2.14E-06	1.21E-04	4.13E-04	4.97E-07
3100	420893	3734529	1.76E-03	8.03E-03	1.76E-05	2.41E-04	1.10E-03	2.62E-06	1.48E-04	5.05E-04	6.07E-07
3101	420893.3	3734519	1.64E-03	7.48E-03	1.63E-05	2.24E-04	1.02E-03	2.43E-06	1.38E-04	4.70E-04	5.65E-07
3102	420893.5	3734509	1.51E-03	6.88E-03	1.50E-05	2.06E-04	9.41E-04	2.24E-06	1.27E-04	4.33E-04	5.20E-07
3103	420901.3	3734566	1.88E-03	8.57E-03	1.87E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
3104	420897.5	3734575	2.01E-03	9.21E-03	2.01E-05	2.76E-04	1.26E-03	3.00E-06	1.69E-04	5.79E-04	6.96E-07
3105	420893.6	3734584	2.14E-03	9.79E-03	2.14E-05	2.94E-04	1.34E-03	3.19E-06	1.80E-04	6.16E-04	7.40E-07
3106	420889.8	3734593	2.25E-03	1.03E-02	2.25E-05	3.08E-04	1.41E-03	3.35E-06	1.89E-04	6.46E-04	7.77E-07
3107	420886	3734601	2.33E-03	1.07E-02	2.33E-05	3.20E-04	1.46E-03	3.47E-06	1.96E-04	6.71E-04	8.07E-07
3108	420882.2	3734610	2.40E-03	1.10E-02	2.40E-05	3.29E-04	1.50E-03	3.58E-06	2.02E-04	6.90E-04	8.30E-07
3109	420878.4	3734619	2.44E-03	1.12E-02	2.44E-05	3.35E-04	1.53E-03	3.64E-06	2.06E-04	7.03E-04	8.45E-07
3110	420874.6	3734628	2.46E-03	1.13E-02	2.46E-05	3.38E-04	1.54E-03	3.67E-06	2.07E-04	7.08E-04	8.52E-07
3111	420870.7	3734637	2.46E-03	1.12E-02	2.46E-05	3.37E-04	1.54E-03	3.66E-06	2.07E-04	7.07E-04	8.50E-07
3112	420866.9	3734645	2.43E-03	1.11E-02	2.43E-05	3.33E-04	1.52E-03	3.62E-06	2.04E-04	6.98E-04	8.39E-07
3113	420863.1	3734654	2.38E-03	1.09E-02	2.37E-05	3.26E-04	1.48E-03	3.54E-06	2.00E-04	6.82E-04	8.21E-07
3114	420850.4	3734667	2.35E-03	1.08E-02	2.35E-05	3.23E-04	1.47E-03	3.50E-06	1.98E-04	6.76E-04	8.13E-07
3115	420841.6	3734670	2.38E-03	1.09E-02	2.38E-05	3.26E-04	1.49E-03	3.54E-06	2.00E-04	6.84E-04	8.23E-07
3116	420832.7	3734674	2.39E-03	1.09E-02	2.39E-05	3.27E-04	1.49E-03	3.55E-06	2.01E-04	6.86E-04	8.25E-07
3117	420823.9	3734678	2.37E-03	1.08E-02	2.36E-05	3.24E-04	1.48E-03	3.52E-06	1.99E-04	6.80E-04	8.17E-07
3118	420815	3734682	2.31E-03	1.06E-02	2.31E-05	3.17E-04	1.44E-03	3.44E-06	1.94E-04	6.63E-04	7.98E-07
3119	420806.2	3734685	2.22E-03	1.02E-02	2.22E-05	3.05E-04	1.39E-03	3.31E-06	1.87E-04	6.38E-04	7.68E-07
3120	420797.4	3734689	2.11E-03	9.63E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.77E-04	6.05E-04	7.28E-07
3121	420788.5	3734693	1.97E-03	8.98E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
3122	420779.7	3734696	1.80E-03	8.25E-03	1.80E-05	2.47E-04	1.13E-03	2.68E-06	1.52E-04	5.18E-04	6.23E-07
3123	420770.8	3734700	1.62E-03	7.43E-03	1.62E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.67E-04	5.61E-07

3124	420762	3734704	1.44E-03	6.59E-03	1.44E-05	1.98E-04	9.01E-04	2.14E-06	1.21E-04	4.14E-04	4.98E-07
3125	420753.1	3734708	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.36E-07
3126	420744.3	3734711	1.09E-03	5.00E-03	1.09E-05	1.50E-04	6.84E-04	1.63E-06	9.20E-05	3.14E-04	3.78E-07
3127	420913	3734530	1.37E-03	6.24E-03	1.36E-05	1.87E-04	8.54E-04	2.03E-06	1.15E-04	3.92E-04	4.72E-07
3128	420913.3	3734520	1.27E-03	5.82E-03	1.27E-05	1.74E-04	7.95E-04	1.89E-06	1.07E-04	3.66E-04	4.40E-07
3129	420913.5	3734510	1.18E-03	5.39E-03	1.18E-05	1.62E-04	7.37E-04	1.76E-06	9.92E-05	3.39E-04	4.07E-07
3130	420920.8	3734568	1.49E-03	6.82E-03	1.49E-05	2.05E-04	9.33E-04	2.22E-06	1.26E-04	4.29E-04	5.16E-07
3131	420916.9	3734577	1.60E-03	7.33E-03	1.60E-05	2.20E-04	1.00E-03	2.39E-06	1.35E-04	4.61E-04	5.54E-07
3132	420912.9	3734586	1.71E-03	7.83E-03	1.71E-05	2.35E-04	1.07E-03	2.55E-06	1.44E-04	4.92E-04	5.92E-07
3133	420909	3734595	1.82E-03	8.30E-03	1.81E-05	2.49E-04	1.13E-03	2.70E-06	1.53E-04	5.22E-04	6.27E-07
3134	420905	3734604	1.91E-03	8.71E-03	1.90E-05	2.61E-04	1.19E-03	2.84E-06	1.60E-04	5.48E-04	6.59E-07
3135	420901.1	3734613	1.97E-03	9.01E-03	1.97E-05	2.70E-04	1.23E-03	2.93E-06	1.66E-04	5.66E-04	6.81E-07
3136	420897.1	3734622	2.02E-03	9.24E-03	2.02E-05	2.77E-04	1.26E-03	3.01E-06	1.70E-04	5.81E-04	6.98E-07
3137	420893.1	3734632	2.05E-03	9.38E-03	2.05E-05	2.81E-04	1.28E-03	3.06E-06	1.73E-04	5.90E-04	7.09E-07
3138	420889.2	3734641	2.07E-03	9.45E-03	2.07E-05	2.83E-04	1.29E-03	3.08E-06	1.74E-04	5.94E-04	7.14E-07
3139	420885.2	3734650	2.06E-03	9.42E-03	2.06E-05	2.82E-04	1.29E-03	3.07E-06	1.73E-04	5.92E-04	7.12E-07
3140	420881.3	3734659	2.04E-03	9.31E-03	2.04E-05	2.79E-04	1.27E-03	3.03E-06	1.71E-04	5.85E-04	7.04E-07
3141	420877.3	3734668	2.00E-03	9.13E-03	2.00E-05	2.74E-04	1.25E-03	2.97E-06	1.68E-04	5.74E-04	6.90E-07
3142	420864.2	3734681	1.99E-03	9.08E-03	1.98E-05	2.72E-04	1.24E-03	2.96E-06	1.67E-04	5.71E-04	6.86E-07
3143	420855	3734685	2.01E-03	9.21E-03	2.01E-05	2.76E-04	1.26E-03	3.00E-06	1.69E-04	5.79E-04	6.96E-07
3144	420845.8	3734689	2.02E-03	9.24E-03	2.02E-05	2.77E-04	1.26E-03	3.01E-06	1.70E-04	5.81E-04	6.98E-07
3145	420836.6	3734693	2.00E-03	9.17E-03	2.00E-05	2.75E-04	1.25E-03	2.98E-06	1.69E-04	5.76E-04	6.93E-07
3146	420827.5	3734696	1.97E-03	8.99E-03	1.96E-05	2.69E-04	1.23E-03	2.93E-06	1.65E-04	5.65E-04	6.79E-07
3147	420818.3	3734700	1.90E-03	8.69E-03	1.90E-05	2.60E-04	1.19E-03	2.83E-06	1.60E-04	5.46E-04	6.57E-07
3148	420809.1	3734704	1.81E-03	8.28E-03	1.81E-05	2.48E-04	1.13E-03	2.70E-06	1.52E-04	5.20E-04	6.26E-07
3149	420799.9	3734708	1.70E-03	7.79E-03	1.70E-05	2.33E-04	1.06E-03	2.54E-06	1.43E-04	4.89E-04	5.89E-07
3150	420790.8	3734712	1.58E-03	7.21E-03	1.58E-05	2.16E-04	9.85E-04	2.35E-06	1.33E-04	4.53E-04	5.45E-07
3151	420781.6	3734716	1.44E-03	6.56E-03	1.43E-05	1.97E-04	8.98E-04	2.14E-06	1.21E-04	4.13E-04	4.96E-07
3152	420772.4	3734720	1.29E-03	5.89E-03	1.29E-05	1.77E-04	8.06E-04	1.92E-06	1.08E-04	3.70E-04	4.45E-07
3153	420763.2	3734723	1.14E-03	5.23E-03	1.14E-05	1.57E-04	7.15E-04	1.70E-06	9.62E-05	3.29E-04	3.95E-07
3154	420754.1	3734727	9.98E-04	4.56E-03	9.98E-06	1.37E-04	6.24E-04	1.49E-06	8.40E-05	2.87E-04	3.45E-07
3155	420744.9	3734731	8.60E-04	3.93E-03	8.60E-06	1.18E-04	5.38E-04	1.28E-06	7.24E-05	2.47E-04	2.97E-07
3156	420933	3734530	1.09E-03	4.97E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.15E-05	3.13E-04	3.76E-07
3157	420933.3	3734520	1.01E-03	4.64E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.54E-05	2.92E-04	3.51E-07
3158	420933.5	3734510	9.39E-04	4.29E-03	9.39E-06	1.29E-04	5.87E-04	1.40E-06	7.90E-05	2.70E-04	3.25E-07
3159	420941.2	3734567	1.19E-03	5.43E-03	1.19E-05	1.63E-04	7.43E-04	1.77E-06	1.00E-04	3.41E-04	4.11E-07
3160	420937.3	3734576	1.27E-03	5.82E-03	1.27E-05	1.74E-04	7.96E-04	1.89E-06	1.07E-04	3.66E-04	4.40E-07
3161	420933.5	3734585	1.36E-03	6.21E-03	1.36E-05	1.86E-04	8.49E-04	2.02E-06	1.14E-04	3.90E-04	4.69E-07
3162	420929.7	3734594	1.44E-03	6.59E-03	1.44E-05	1.98E-04	9.02E-04	2.15E-06	1.21E-04	4.14E-04	4.98E-07
3163	420925.8	3734603	1.52E-03	6.96E-03	1.52E-05	2.09E-04	9.51E-04	2.27E-06	1.28E-04	4.37E-04	5.26E-07
3164	420922	3734612	1.59E-03	7.28E-03	1.59E-05	2.18E-04	9.96E-04	2.37E-06	1.34E-04	4.58E-04	5.50E-07
3165	420918.1	3734621	1.65E-03	7.56E-03	1.65E-05	2.27E-04	1.03E-03	2.46E-06	1.39E-04	4.75E-04	5.71E-07
3166	420914.3	3734629	1.70E-03	7.78E-03	1.70E-05	2.33E-04	1.06E-03	2.53E-06	1.43E-04	4.89E-04	5.88E-07
3167	420910.5	3734638	1.73E-03	7.92E-03	1.73E-05	2.38E-04	1.08E-03	2.58E-06	1.46E-04	4.98E-04	5.99E-07
3168	420906.6	3734647	1.75E-03	8.00E-03	1.75E-05	2.40E-04	1.09E-03	2.61E-06	1.47E-04	5.03E-04	6.05E-07
3169	420902.8	3734656	1.76E-03	8.03E-03	1.76E-05	2.41E-04	1.10E-03	2.61E-06	1.48E-04	5.05E-04	6.07E-07
3170	420898.9	3734665	1.75E-03	8.00E-03	1.75E-05	2.40E-04	1.09E-03	2.60E-06	1.47E-04	5.03E-04	6.04E-07
3171	420895.1	3734674	1.73E-03	7.91E-03	1.73E-05	2.37E-04	1.08E-03	2.57E-06	1.46E-04	4.97E-04	5.98E-07
3172	420891.2	3734683	1.70E-03	7.77E-03	1.70E-05	2.33E-04	1.06E-03	2.53E-06	1.43E-04	4.88E-04	5.87E-07
3173	420878.5	3734695	1.69E-03	7.75E-03	1.69E-05	2.32E-04	1.06E-03	2.52E-06	1.43E-04	4.87E-04	5.86E-07
3174	420869.6	3734699	1.72E-03	7.87E-03	1.72E-05	2.36E-04	1.08E-03	2.56E-06	1.45E-04	4.95E-04	5.95E-07
3175	420860.7	3734703	1.73E-03	7.92E-03	1.73E-05	2.38E-04	1.08E-03	2.58E-06	1.46E-04	4.98E-04	5.99E-07
3176	420851.8	3734706	1.73E-03	7.90E-03	1.73E-05	2.37E-04	1.08E-03	2.57E-06	1.45E-04	4.97E-04	5.97E-07
3177	420842.9	3734710	1.71E-03	7.80E-03	1.71E-05	2.34E-04	1.07E-03	2.54E-06	1.44E-04	4.90E-04	5.90E-07
3178	420834	3734714	1.67E-03	7.63E-03	1.67E-05	2.29E-04	1.04E-03	2.48E-06	1.40E-04	4.79E-04	5.76E-07
3179	420825.1	3734718	1.61E-03	7.37E-03	1.61E-05	2.21E-04	1.01E-03	2.40E-06	1.36E-04	4.63E-04	5.57E-07
3180	420816.2	3734721	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.62E-04	2.29E-06	1.29E-04	4.42E-04	5.32E-07
3181	420807.2	3734725	1.45E-03	6.63E-03	1.45E-05	1.99E-04	9.06E-04	2.16E-06	1.22E-04	4.17E-04	5.01E-07
3182	420798.3	3734729	1.35E-03	6.17E-03	1.35E-05	1.85E-04	8.43E-04	2.01E-06	1.14E-04	3.88E-04	4.66E-07

3183	420789.4	3734733	1.24E-03	5.67E-03	1.24E-05	1.70E-04	7.75E-04	1.84E-06	1.04E-04	3.56E-04	4.28E-07
3184	420771.6	3734740	1.01E-03	4.63E-03	1.01E-05	1.39E-04	6.33E-04	1.51E-06	8.51E-05	2.91E-04	3.50E-07
3185	420762.7	3734744	8.96E-04	4.10E-03	8.96E-06	1.23E-04	5.60E-04	1.33E-06	7.54E-05	2.58E-04	3.10E-07
3186	420753.8	3734747	7.86E-04	3.59E-03	7.85E-06	1.08E-04	4.91E-04	1.17E-06	6.61E-05	2.26E-04	2.72E-07
3187	420744.9	3734751	6.83E-04	3.12E-03	6.82E-06	9.36E-05	4.27E-04	1.02E-06	5.74E-05	1.96E-04	2.36E-07
3188	420953	3734531	8.79E-04	4.02E-03	8.78E-06	1.20E-04	5.49E-04	1.31E-06	7.39E-05	2.53E-04	3.04E-07
3189	420953.2	3734521	8.23E-04	3.76E-03	8.23E-06	1.13E-04	5.15E-04	1.23E-06	6.93E-05	2.37E-04	2.85E-07
3190	420953.5	3734511	7.64E-04	3.49E-03	7.64E-06	1.05E-04	4.78E-04	1.14E-06	6.43E-05	2.20E-04	2.64E-07
3191	420960.8	3734569	9.73E-04	4.45E-03	9.73E-06	1.33E-04	6.09E-04	1.45E-06	8.19E-05	2.80E-04	3.36E-07
3192	420956.9	3734578	1.04E-03	4.77E-03	1.04E-05	1.43E-04	6.53E-04	1.55E-06	8.78E-05	3.00E-04	3.61E-07
3193	420952.9	3734587	1.12E-03	5.11E-03	1.12E-05	1.53E-04	6.99E-04	1.66E-06	9.41E-05	3.21E-04	3.86E-07
3194	420949	3734596	1.19E-03	5.44E-03	1.19E-05	1.63E-04	7.44E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
3195	420945	3734605	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.87E-04	1.87E-06	1.06E-04	3.62E-04	4.35E-07
3196	420941	3734614	1.32E-03	6.04E-03	1.32E-05	1.81E-04	8.26E-04	1.97E-06	1.11E-04	3.80E-04	4.57E-07
3197	420937.1	3734624	1.38E-03	6.30E-03	1.38E-05	1.89E-04	8.62E-04	2.05E-06	1.16E-04	3.96E-04	4.76E-07
3198	420933.1	3734633	1.43E-03	6.52E-03	1.43E-05	1.95E-04	8.91E-04	2.12E-06	1.20E-04	4.10E-04	4.93E-07
3199	420929.2	3734642	1.46E-03	6.69E-03	1.46E-05	2.01E-04	9.15E-04	2.18E-06	1.23E-04	4.21E-04	5.06E-07
3200	420925.2	3734651	1.49E-03	6.82E-03	1.49E-05	2.05E-04	9.33E-04	2.22E-06	1.26E-04	4.29E-04	5.16E-07
3201	420921.3	3734660	1.51E-03	6.89E-03	1.51E-05	2.06E-04	9.42E-04	2.24E-06	1.27E-04	4.33E-04	5.20E-07
3202	420917.3	3734669	1.51E-03	6.90E-03	1.51E-05	2.07E-04	9.44E-04	2.25E-06	1.27E-04	4.34E-04	5.22E-07
3203	420913.3	3734678	1.50E-03	6.88E-03	1.50E-05	2.06E-04	9.40E-04	2.24E-06	1.27E-04	4.32E-04	5.20E-07
3204	420909.4	3734687	1.49E-03	6.80E-03	1.49E-05	2.04E-04	9.30E-04	2.21E-06	1.25E-04	4.28E-04	5.14E-07
3205	420905.4	3734697	1.46E-03	6.68E-03	1.46E-05	2.00E-04	9.13E-04	2.17E-06	1.23E-04	4.20E-04	5.05E-07
3206	420892.3	3734710	1.46E-03	6.67E-03	1.46E-05	2.00E-04	9.12E-04	2.17E-06	1.23E-04	4.19E-04	5.04E-07
3207	420883.1	3734713	1.48E-03	6.78E-03	1.48E-05	2.03E-04	9.28E-04	2.21E-06	1.25E-04	4.26E-04	5.13E-07
3208	420873.9	3734717	1.50E-03	6.85E-03	1.50E-05	2.05E-04	9.37E-04	2.23E-06	1.26E-04	4.31E-04	5.18E-07
3209	420864.8	3734721	1.50E-03	6.86E-03	1.50E-05	2.06E-04	9.37E-04	2.23E-06	1.26E-04	4.31E-04	5.18E-07
3210	420855.6	3734725	1.49E-03	6.79E-03	1.48E-05	2.04E-04	9.29E-04	2.21E-06	1.25E-04	4.27E-04	5.13E-07
3211	420846.4	3734729	1.46E-03	6.66E-03	1.46E-05	2.00E-04	9.11E-04	2.17E-06	1.23E-04	4.19E-04	5.03E-07
3212	420837.2	3734733	1.41E-03	6.47E-03	1.41E-05	1.94E-04	8.84E-04	2.11E-06	1.19E-04	4.06E-04	4.89E-07
3213	420791.3	3734752	1.02E-03	4.67E-03	1.02E-05	1.40E-04	6.38E-04	1.52E-06	8.59E-05	2.93E-04	3.53E-07
3214	420782.2	3734756	9.23E-04	4.22E-03	9.22E-06	1.26E-04	5.77E-04	1.37E-06	7.76E-05	2.65E-04	3.19E-07
3215	420773	3734760	8.25E-04	3.77E-03	8.24E-06	1.13E-04	5.15E-04	1.23E-06	6.94E-05	2.37E-04	2.85E-07
3216	420763.8	3734763	7.29E-04	3.33E-03	7.29E-06	1.00E-04	4.56E-04	1.09E-06	6.14E-05	2.10E-04	2.52E-07
3217	420754.6	3734767	6.39E-04	2.92E-03	6.39E-06	8.76E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
3218	420745.5	3734771	5.56E-04	2.54E-03	5.55E-06	7.62E-05	3.47E-04	8.27E-07	4.68E-05	1.60E-04	1.92E-07
3219	420973	3734531	7.24E-04	3.31E-03	7.24E-06	9.92E-05	4.53E-04	1.08E-06	6.09E-05	2.08E-04	2.50E-07
3220	420973.2	3734521	6.78E-04	3.10E-03	6.78E-06	9.30E-05	4.24E-04	1.01E-06	5.71E-05	1.95E-04	2.34E-07
3221	420973.5	3734511	6.31E-04	2.89E-03	6.31E-06	8.65E-05	3.95E-04	9.39E-07	5.31E-05	1.81E-04	2.18E-07
3222	420981.1	3734569	8.05E-04	3.68E-03	8.05E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
3223	420977.3	3734577	8.60E-04	3.93E-03	8.59E-06	1.18E-04	5.38E-04	1.28E-06	7.23E-05	2.47E-04	2.97E-07
3224	420973.4	3734586	9.19E-04	4.20E-03	9.18E-06	1.26E-04	5.74E-04	1.37E-06	7.73E-05	2.64E-04	3.17E-07
3225	420969.5	3734595	9.78E-04	4.47E-03	9.77E-06	1.34E-04	6.11E-04	1.46E-06	8.22E-05	2.81E-04	3.38E-07
3226	420965.7	3734604	1.03E-03	4.73E-03	1.03E-05	1.42E-04	6.47E-04	1.54E-06	8.70E-05	2.97E-04	3.57E-07
3227	420961.8	3734613	1.09E-03	4.98E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.16E-05	3.13E-04	3.76E-07
3228	420958	3734622	1.14E-03	5.22E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.60E-05	3.28E-04	3.94E-07
3229	420954.1	3734631	1.19E-03	5.43E-03	1.19E-05	1.63E-04	7.43E-04	1.77E-06	1.00E-04	3.42E-04	4.11E-07
3230	420950.3	3734640	1.23E-03	5.62E-03	1.23E-05	1.69E-04	7.69E-04	1.83E-06	1.03E-04	3.53E-04	4.25E-07
3231	420946.4	3734649	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.89E-04	1.88E-06	1.06E-04	3.63E-04	4.36E-07
3232	420942.5	3734658	1.29E-03	5.88E-03	1.29E-05	1.76E-04	8.04E-04	1.92E-06	1.08E-04	3.70E-04	4.45E-07
3233	420938.7	3734667	1.30E-03	5.95E-03	1.30E-05	1.78E-04	8.14E-04	1.94E-06	1.10E-04	3.74E-04	4.50E-07
3234	420934.8	3734675	1.31E-03	5.99E-03	1.31E-05	1.79E-04	8.19E-04	1.95E-06	1.10E-04	3.76E-04	4.52E-07
3235	420931	3734684	1.31E-03	5.99E-03	1.31E-05	1.80E-04	8.19E-04	1.95E-06	1.10E-04	3.76E-04	4.53E-07
3236	420927.1	3734693	1.30E-03	5.96E-03	1.30E-05	1.79E-04	8.15E-04	1.94E-06	1.10E-04	3.75E-04	4.50E-07
3237	420923.2	3734702	1.29E-03	5.90E-03	1.29E-05	1.77E-04	8.07E-04	1.92E-06	1.09E-04	3.71E-04	4.46E-07
3238	420919.4	3734711	1.27E-03	5.79E-03	1.27E-05	1.74E-04	7.92E-04	1.88E-06	1.07E-04	3.64E-04	4.38E-07
3239	420906.6	3734724	1.26E-03	5.77E-03	1.26E-05	1.73E-04	7.90E-04	1.88E-06	1.06E-04	3.63E-04	4.36E-07
3240	420897.6	3734727	1.28E-03	5.87E-03	1.28E-05	1.76E-04	8.03E-04	1.91E-06	1.08E-04	3.69E-04	4.44E-07
3241	420888.7	3734731	1.30E-03	5.94E-03	1.30E-05	1.78E-04	8.13E-04	1.94E-06	1.09E-04	3.74E-04	4.49E-07

3242	420835	3734754	1.17E-03	5.37E-03	1.17E-05	1.61E-04	7.34E-04	1.75E-06	9.88E-05	3.37E-04	4.06E-07
3243	420826	3734757	1.12E-03	5.10E-03	1.11E-05	1.53E-04	6.97E-04	1.66E-06	9.38E-05	3.20E-04	3.85E-07
3244	420817.1	3734761	1.05E-03	4.80E-03	1.05E-05	1.44E-04	6.56E-04	1.56E-06	8.82E-05	3.01E-04	3.62E-07
3245	420808.1	3734765	9.76E-04	4.46E-03	9.76E-06	1.34E-04	6.10E-04	1.45E-06	8.21E-05	2.81E-04	3.37E-07
3246	420799.2	3734769	8.98E-04	4.11E-03	8.98E-06	1.23E-04	5.61E-04	1.34E-06	7.56E-05	2.58E-04	3.10E-07
3247	420790.3	3734772	8.20E-04	3.75E-03	8.20E-06	1.12E-04	5.13E-04	1.22E-06	6.90E-05	2.36E-04	2.84E-07
3248	420781.3	3734776	7.41E-04	3.39E-03	7.41E-06	1.02E-04	4.63E-04	1.10E-06	6.24E-05	2.13E-04	2.56E-07
3249	420772.4	3734780	6.64E-04	3.03E-03	6.63E-06	9.10E-05	4.15E-04	9.88E-07	5.58E-05	1.91E-04	2.29E-07
3250	420763.4	3734784	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
3251	420754.5	3734787	5.20E-04	2.38E-03	5.20E-06	7.13E-05	3.25E-04	7.74E-07	4.37E-05	1.49E-04	1.80E-07
3252	420745.5	3734791	4.55E-04	2.08E-03	4.55E-06	6.24E-05	2.85E-04	6.78E-07	3.83E-05	1.31E-04	1.57E-07
3253	420993	3734532	6.05E-04	2.77E-03	6.05E-06	8.30E-05	3.78E-04	9.01E-07	5.09E-05	1.74E-04	2.09E-07
3254	420993.2	3734522	5.67E-04	2.59E-03	5.66E-06	7.77E-05	3.54E-04	8.44E-07	4.77E-05	1.63E-04	1.96E-07
3255	420993.5	3734512	5.28E-04	2.41E-03	5.27E-06	7.23E-05	3.30E-04	7.85E-07	4.44E-05	1.52E-04	1.82E-07
3256	420992.9	3734588	7.77E-04	3.55E-03	7.77E-06	1.07E-04	4.86E-04	1.16E-06	6.54E-05	2.23E-04	2.69E-07
3257	420988.9	3734597	8.28E-04	3.79E-03	8.28E-06	1.14E-04	5.18E-04	1.23E-06	6.97E-05	2.38E-04	2.86E-07
3258	420985	3734606	8.78E-04	4.01E-03	8.77E-06	1.20E-04	5.49E-04	1.31E-06	7.38E-05	2.52E-04	3.03E-07
3259	420981	3734615	9.25E-04	4.23E-03	9.25E-06	1.27E-04	5.79E-04	1.38E-06	7.79E-05	2.66E-04	3.20E-07
3260	420977.1	3734625	9.71E-04	4.44E-03	9.70E-06	1.33E-04	6.07E-04	1.45E-06	8.17E-05	2.79E-04	3.36E-07
3261	420973.1	3734634	1.01E-03	4.63E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.53E-05	2.91E-04	3.50E-07
3262	420969.2	3734643	1.05E-03	4.81E-03	1.05E-05	1.44E-04	6.58E-04	1.57E-06	8.86E-05	3.02E-04	3.64E-07
3263	420965.2	3734652	1.09E-03	4.96E-03	1.09E-05	1.49E-04	6.79E-04	1.62E-06	9.14E-05	3.12E-04	3.75E-07
3264	420961.2	3734661	1.11E-03	5.08E-03	1.11E-05	1.52E-04	6.95E-04	1.65E-06	9.35E-05	3.19E-04	3.84E-07
3265	420957.3	3734670	1.13E-03	5.16E-03	1.13E-05	1.55E-04	7.06E-04	1.68E-06	9.49E-05	3.24E-04	3.90E-07
3266	420953.3	3734679	1.14E-03	5.21E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.59E-05	3.28E-04	3.94E-07
3267	420949.4	3734688	1.15E-03	5.24E-03	1.15E-05	1.57E-04	7.17E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3268	420945.4	3734698	1.15E-03	5.24E-03	1.15E-05	1.57E-04	7.17E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3269	420941.4	3734707	1.14E-03	5.22E-03	1.14E-05	1.56E-04	7.13E-04	1.70E-06	9.60E-05	3.28E-04	3.94E-07
3270	420937.5	3734716	1.12E-03	5.14E-03	1.12E-05	1.54E-04	7.03E-04	1.67E-06	9.46E-05	3.23E-04	3.89E-07
3271	420933.5	3734725	1.10E-03	5.05E-03	1.10E-05	1.51E-04	6.90E-04	1.64E-06	9.28E-05	3.17E-04	3.81E-07
3272	420883.7	3734753	1.15E-03	5.24E-03	1.14E-05	1.57E-04	7.16E-04	1.71E-06	9.64E-05	3.29E-04	3.96E-07
3273	420874.5	3734757	1.14E-03	5.19E-03	1.13E-05	1.56E-04	7.10E-04	1.69E-06	9.55E-05	3.26E-04	3.92E-07
3274	420865.3	3734761	1.12E-03	5.10E-03	1.12E-05	1.53E-04	6.98E-04	1.66E-06	9.39E-05	3.21E-04	3.86E-07
3275	420856.2	3734765	1.09E-03	4.97E-03	1.09E-05	1.49E-04	6.80E-04	1.62E-06	9.15E-05	3.12E-04	3.76E-07
3276	420847	3734769	1.05E-03	4.78E-03	1.05E-05	1.43E-04	6.54E-04	1.56E-06	8.80E-05	3.01E-04	3.62E-07
3277	420837.8	3734773	9.97E-04	4.56E-03	9.97E-06	1.37E-04	6.24E-04	1.48E-06	8.39E-05	2.87E-04	3.45E-07
3278	420828.6	3734776	9.43E-04	4.31E-03	9.42E-06	1.29E-04	5.89E-04	1.40E-06	7.93E-05	2.71E-04	3.26E-07
3279	420819.5	3734780	8.82E-04	4.03E-03	8.82E-06	1.21E-04	5.52E-04	1.31E-06	7.42E-05	2.53E-04	3.05E-07
3280	420810.3	3734784	8.17E-04	3.74E-03	8.17E-06	1.12E-04	5.11E-04	1.22E-06	6.88E-05	2.35E-04	2.82E-07
3281	420801.1	3734788	7.52E-04	3.44E-03	7.52E-06	1.03E-04	4.70E-04	1.12E-06	6.33E-05	2.16E-04	2.60E-07
3282	420791.9	3734792	6.86E-04	3.14E-03	6.86E-06	9.41E-05	4.29E-04	1.02E-06	5.77E-05	1.97E-04	2.37E-07
3283	420782.7	3734796	6.19E-04	2.83E-03	6.19E-06	8.48E-05	3.87E-04	9.21E-07	5.21E-05	1.78E-04	2.14E-07
3284	420773.6	3734800	5.54E-04	2.53E-03	5.53E-06	7.59E-05	3.46E-04	8.24E-07	4.66E-05	1.59E-04	1.91E-07
3285	420764.4	3734803	4.92E-04	2.25E-03	4.91E-06	6.74E-05	3.07E-04	7.32E-07	4.14E-05	1.41E-04	1.70E-07
3286	420755.2	3734807	4.34E-04	1.98E-03	4.33E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
3287	420746	3734811	3.81E-04	1.74E-03	3.80E-06	5.22E-05	2.38E-04	5.66E-07	3.20E-05	1.09E-04	1.31E-07
3288	421013	3734532	5.10E-04	2.33E-03	5.10E-06	7.00E-05	3.19E-04	7.60E-07	4.29E-05	1.47E-04	1.76E-07
3289	421013.2	3734522	4.79E-04	2.19E-03	4.78E-06	6.56E-05	2.99E-04	7.12E-07	4.03E-05	1.38E-04	1.65E-07
3290	421013.5	3734512	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3291	421024.9	3734561	5.38E-04	2.46E-03	5.37E-06	7.37E-05	3.36E-04	8.00E-07	4.52E-05	1.54E-04	1.86E-07
3292	421021.1	3734570	5.77E-04	2.64E-03	5.76E-06	7.91E-05	3.61E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
3293	421017.2	3734579	6.16E-04	2.82E-03	6.15E-06	8.44E-05	3.85E-04	9.17E-07	5.18E-05	1.77E-04	2.13E-07
3294	420994	3734632	8.53E-04	3.90E-03	8.53E-06	1.17E-04	5.33E-04	1.27E-06	7.18E-05	2.45E-04	2.95E-07
3295	420990.1	3734641	8.87E-04	4.06E-03	8.87E-06	1.22E-04	5.55E-04	1.32E-06	7.46E-05	2.55E-04	3.07E-07
3296	420986.2	3734650	9.21E-04	4.21E-03	9.20E-06	1.26E-04	5.76E-04	1.37E-06	7.75E-05	2.65E-04	3.18E-07
3297	420982.4	3734659	9.50E-04	4.35E-03	9.50E-06	1.30E-04	5.94E-04	1.41E-06	8.00E-05	2.73E-04	3.28E-07
3298	420978.5	3734668	9.72E-04	4.44E-03	9.72E-06	1.33E-04	6.08E-04	1.45E-06	8.18E-05	2.79E-04	3.36E-07
3299	420974.6	3734677	9.88E-04	4.52E-03	9.88E-06	1.35E-04	6.18E-04	1.47E-06	8.32E-05	2.84E-04	3.42E-07
3300	420970.7	3734686	1.00E-03	4.57E-03	1.00E-05	1.37E-04	6.25E-04	1.49E-06	8.42E-05	2.87E-04	3.46E-07

3301	420966.9	3734695	1.01E-03	4.61E-03	1.01E-05	1.38E-04	6.30E-04	1.50E-06	8.48E-05	2.90E-04	3.48E-07
3302	420963	3734704	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.51E-06	8.51E-05	2.91E-04	3.49E-07
3303	420959.1	3734713	1.01E-03	4.61E-03	1.01E-05	1.38E-04	6.30E-04	1.50E-06	8.48E-05	2.89E-04	3.48E-07
3304	420955.2	3734722	9.97E-04	4.56E-03	9.97E-06	1.37E-04	6.24E-04	1.48E-06	8.39E-05	2.87E-04	3.45E-07
3305	420951.4	3734731	9.84E-04	4.50E-03	9.83E-06	1.35E-04	6.15E-04	1.46E-06	8.27E-05	2.83E-04	3.40E-07
3306	420934.7	3734752	9.70E-04	4.43E-03	9.69E-06	1.33E-04	6.06E-04	1.44E-06	8.16E-05	2.79E-04	3.35E-07
3307	420925.7	3734756	9.88E-04	4.52E-03	9.88E-06	1.35E-04	6.18E-04	1.47E-06	8.31E-05	2.84E-04	3.41E-07
3308	420916.7	3734760	1.00E-03	4.58E-03	1.00E-05	1.37E-04	6.26E-04	1.49E-06	8.43E-05	2.88E-04	3.46E-07
3309	420907.7	3734763	1.01E-03	4.62E-03	1.01E-05	1.39E-04	6.32E-04	1.50E-06	8.50E-05	2.90E-04	3.49E-07
3310	420898.7	3734767	1.02E-03	4.66E-03	1.02E-05	1.40E-04	6.37E-04	1.52E-06	8.58E-05	2.93E-04	3.52E-07
3311	420889.8	3734771	1.01E-03	4.64E-03	1.01E-05	1.39E-04	6.34E-04	1.51E-06	8.54E-05	2.92E-04	3.51E-07
3312	420880.8	3734775	1.00E-03	4.58E-03	1.00E-05	1.37E-04	6.26E-04	1.49E-06	8.43E-05	2.88E-04	3.46E-07
3313	420871.8	3734778	9.81E-04	4.49E-03	9.81E-06	1.35E-04	6.14E-04	1.46E-06	8.26E-05	2.82E-04	3.39E-07
3314	420862.8	3734782	9.54E-04	4.36E-03	9.53E-06	1.31E-04	5.96E-04	1.42E-06	8.03E-05	2.74E-04	3.30E-07
3315	420853.9	3734786	9.20E-04	4.20E-03	9.19E-06	1.26E-04	5.75E-04	1.37E-06	7.74E-05	2.64E-04	3.18E-07
3316	420844.9	3734790	8.78E-04	4.01E-03	8.77E-06	1.20E-04	5.49E-04	1.31E-06	7.38E-05	2.52E-04	3.03E-07
3317	420835.9	3734794	8.31E-04	3.80E-03	8.31E-06	1.14E-04	5.20E-04	1.24E-06	6.99E-05	2.39E-04	2.87E-07
3318	420826.9	3734797	7.81E-04	3.57E-03	7.80E-06	1.07E-04	4.88E-04	1.16E-06	6.57E-05	2.24E-04	2.70E-07
3319	420817.9	3734801	7.27E-04	3.33E-03	7.27E-06	9.97E-05	4.55E-04	1.08E-06	6.12E-05	2.09E-04	2.51E-07
3320	420809	3734805	6.72E-04	3.07E-03	6.72E-06	9.21E-05	4.20E-04	1.00E-06	5.65E-05	1.93E-04	2.32E-07
3321	420800	3734809	6.17E-04	2.82E-03	6.16E-06	8.45E-05	3.86E-04	9.18E-07	5.19E-05	1.77E-04	2.13E-07
3322	420791	3734812	5.61E-04	2.56E-03	5.61E-06	7.69E-05	3.51E-04	8.35E-07	4.72E-05	1.61E-04	1.94E-07
3323	420782	3734816	5.06E-04	2.31E-03	5.06E-06	6.94E-05	3.16E-04	7.53E-07	4.26E-05	1.45E-04	1.75E-07
3324	420773.1	3734820	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
3325	420764.1	3734824	4.07E-04	1.86E-03	4.07E-06	5.58E-05	2.55E-04	6.06E-07	3.43E-05	1.17E-04	1.41E-07
3326	420755.1	3734827	3.62E-04	1.65E-03	3.61E-06	4.96E-05	2.26E-04	5.38E-07	3.04E-05	1.04E-04	1.25E-07
3327	420746.1	3734831	3.18E-04	1.45E-03	3.17E-06	4.35E-05	1.99E-04	4.73E-07	2.67E-05	9.12E-05	1.10E-07
3328	421033	3734533	4.33E-04	1.98E-03	4.33E-06	5.94E-05	2.71E-04	6.45E-07	3.65E-05	1.25E-04	1.50E-07
3329	421033.2	3734523	4.06E-04	1.86E-03	4.06E-06	5.56E-05	2.54E-04	6.04E-07	3.42E-05	1.17E-04	1.40E-07
3330	421033.5	3734513	3.79E-04	1.73E-03	3.78E-06	5.19E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
3331	421064.9	3734562	4.00E-04	1.83E-03	4.00E-06	5.49E-05	2.50E-04	5.96E-07	3.37E-05	1.15E-04	1.38E-07
3332	421061	3734571	4.29E-04	1.96E-03	4.29E-06	5.89E-05	2.68E-04	6.39E-07	3.61E-05	1.23E-04	1.48E-07
3333	421057.1	3734580	4.59E-04	2.10E-03	4.58E-06	6.29E-05	2.87E-04	6.83E-07	3.86E-05	1.32E-04	1.59E-07
3334	421053.3	3734589	4.88E-04	2.23E-03	4.88E-06	6.70E-05	3.05E-04	7.27E-07	4.11E-05	1.40E-04	1.69E-07
3335	421049.4	3734598	5.18E-04	2.37E-03	5.18E-06	7.10E-05	3.24E-04	7.71E-07	4.36E-05	1.49E-04	1.79E-07
3336	421045.5	3734607	5.48E-04	2.50E-03	5.47E-06	7.51E-05	3.42E-04	8.15E-07	4.61E-05	1.57E-04	1.89E-07
3337	421041.6	3734616	5.77E-04	2.64E-03	5.76E-06	7.90E-05	3.60E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
3338	421037.7	3734625	6.05E-04	2.77E-03	6.05E-06	8.30E-05	3.78E-04	9.01E-07	5.09E-05	1.74E-04	2.09E-07
3339	421033.9	3734634	6.33E-04	2.89E-03	6.33E-06	8.68E-05	3.96E-04	9.42E-07	5.33E-05	1.82E-04	2.19E-07
3340	421030	3734643	6.59E-04	3.02E-03	6.59E-06	9.04E-05	4.12E-04	9.82E-07	5.55E-05	1.90E-04	2.28E-07
3341	421026.1	3734651	6.84E-04	3.13E-03	6.83E-06	9.37E-05	4.27E-04	1.02E-06	5.75E-05	1.96E-04	2.36E-07
3342	421022.2	3734660	7.06E-04	3.23E-03	7.05E-06	9.67E-05	4.41E-04	1.05E-06	5.94E-05	2.03E-04	2.44E-07
3343	421018.3	3734669	7.26E-04	3.32E-03	7.26E-06	9.95E-05	4.54E-04	1.08E-06	6.11E-05	2.09E-04	2.51E-07
3344	421014.4	3734678	7.47E-04	3.41E-03	7.46E-06	1.02E-04	4.67E-04	1.11E-06	6.28E-05	2.15E-04	2.58E-07
3345	420995	3734723	7.93E-04	3.63E-03	7.93E-06	1.09E-04	4.96E-04	1.18E-06	6.67E-05	2.28E-04	2.74E-07
3346	420983.4	3734750	7.78E-04	3.56E-03	7.78E-06	1.07E-04	4.86E-04	1.16E-06	6.55E-05	2.24E-04	2.69E-07
3347	420979.5	3734759	7.68E-04	3.51E-03	7.68E-06	1.05E-04	4.80E-04	1.14E-06	6.46E-05	2.21E-04	2.65E-07
3348	420975.6	3734768	7.56E-04	3.46E-03	7.56E-06	1.04E-04	4.73E-04	1.13E-06	6.36E-05	2.17E-04	2.61E-07
3349	420962.7	3734781	7.64E-04	3.49E-03	7.63E-06	1.05E-04	4.78E-04	1.14E-06	6.43E-05	2.19E-04	2.64E-07
3350	420953.7	3734784	7.80E-04	3.57E-03	7.80E-06	1.07E-04	4.88E-04	1.16E-06	6.56E-05	2.24E-04	2.70E-07
3351	420944.7	3734788	7.94E-04	3.63E-03	7.94E-06	1.09E-04	4.97E-04	1.18E-06	6.68E-05	2.28E-04	2.74E-07
3352	420935.7	3734792	8.05E-04	3.68E-03	8.04E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
3353	420926.7	3734796	8.10E-04	3.70E-03	8.10E-06	1.11E-04	5.07E-04	1.21E-06	6.82E-05	2.33E-04	2.80E-07
3354	420917.7	3734799	8.11E-04	3.71E-03	8.10E-06	1.11E-04	5.07E-04	1.21E-06	6.82E-05	2.33E-04	2.80E-07
3355	420908.7	3734803	8.06E-04	3.69E-03	8.06E-06	1.11E-04	5.04E-04	1.20E-06	6.78E-05	2.32E-04	2.79E-07
3356	420899.7	3734807	7.97E-04	3.64E-03	7.97E-06	1.09E-04	4.98E-04	1.19E-06	6.71E-05	2.29E-04	2.75E-07
3357	420890.7	3734811	7.82E-04	3.58E-03	7.82E-06	1.07E-04	4.89E-04	1.16E-06	6.58E-05	2.25E-04	2.70E-07
3358	420881.7	3734815	7.62E-04	3.48E-03	7.62E-06	1.04E-04	4.76E-04	1.13E-06	6.41E-05	2.19E-04	2.63E-07
3359	420872.7	3734818	7.37E-04	3.37E-03	7.37E-06	1.01E-04	4.61E-04	1.10E-06	6.20E-05	2.12E-04	2.55E-07

3360	420863.7	3734822	7.08E-04	3.24E-03	7.08E-06	9.71E-05	4.43E-04	1.05E-06	5.96E-05	2.03E-04	2.45E-07
3361	420854.7	3734826	6.75E-04	3.09E-03	6.75E-06	9.26E-05	4.22E-04	1.01E-06	5.68E-05	1.94E-04	2.33E-07
3362	420845.7	3734830	6.40E-04	2.92E-03	6.39E-06	8.77E-05	4.00E-04	9.52E-07	5.38E-05	1.84E-04	2.21E-07
3363	420836.7	3734833	6.01E-04	2.75E-03	6.01E-06	8.24E-05	3.76E-04	8.95E-07	5.06E-05	1.73E-04	2.08E-07
3364	420827.7	3734837	5.61E-04	2.57E-03	5.61E-06	7.70E-05	3.51E-04	8.36E-07	4.72E-05	1.61E-04	1.94E-07
3365	420818.7	3734841	5.20E-04	2.38E-03	5.20E-06	7.13E-05	3.25E-04	7.75E-07	4.38E-05	1.50E-04	1.80E-07
3366	420809.7	3734845	4.79E-04	2.19E-03	4.79E-06	6.57E-05	3.00E-04	7.13E-07	4.03E-05	1.38E-04	1.66E-07
3367	420800.7	3734849	4.38E-04	2.00E-03	4.38E-06	6.01E-05	2.74E-04	6.52E-07	3.69E-05	1.26E-04	1.51E-07
3368	420791.7	3734852	3.98E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.14E-04	1.38E-07
3369	420782.7	3734856	3.60E-04	1.65E-03	3.60E-06	4.94E-05	2.25E-04	5.36E-07	3.03E-05	1.04E-04	1.25E-07
3370	420773.7	3734860	3.24E-04	1.48E-03	3.24E-06	4.44E-05	2.02E-04	4.82E-07	2.72E-05	9.31E-05	1.12E-07
3371	420764.7	3734864	2.89E-04	1.32E-03	2.89E-06	3.97E-05	1.81E-04	4.31E-07	2.43E-05	8.31E-05	1.00E-07
3372	420755.7	3734867	2.57E-04	1.18E-03	2.57E-06	3.52E-05	1.61E-04	3.83E-07	2.16E-05	7.39E-05	8.88E-08
3373	420746.7	3734871	2.27E-04	1.04E-03	2.27E-06	3.11E-05	1.42E-04	3.38E-07	1.91E-05	6.52E-05	7.84E-08
3374	421072.9	3734534	3.25E-04	1.49E-03	3.25E-06	4.46E-05	2.03E-04	4.84E-07	2.73E-05	9.34E-05	1.12E-07
3375	421073.2	3734524	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.76E-05	1.05E-07
3376	421073.5	3734514	2.85E-04	1.30E-03	2.85E-06	3.91E-05	1.78E-04	4.25E-07	2.40E-05	8.20E-05	9.86E-08
3377	421089.3	3734599	3.96E-04	1.81E-03	3.96E-06	5.43E-05	2.48E-04	5.90E-07	3.33E-05	1.14E-04	1.37E-07
3378	421085.4	3734608	4.19E-04	1.92E-03	4.19E-06	5.74E-05	2.62E-04	6.23E-07	3.52E-05	1.20E-04	1.45E-07
3379	421081.5	3734617	4.40E-04	2.01E-03	4.40E-06	6.03E-05	2.75E-04	6.55E-07	3.70E-05	1.26E-04	1.52E-07
3380	421077.7	3734626	4.61E-04	2.11E-03	4.60E-06	6.31E-05	2.88E-04	6.86E-07	3.87E-05	1.32E-04	1.59E-07
3381	421073.8	3734635	4.81E-04	2.20E-03	4.81E-06	6.59E-05	3.01E-04	7.16E-07	4.05E-05	1.38E-04	1.66E-07
3382	421069.9	3734644	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.13E-04	7.46E-07	4.22E-05	1.44E-04	1.73E-07
3383	421066	3734653	5.21E-04	2.38E-03	5.21E-06	7.14E-05	3.26E-04	7.76E-07	4.38E-05	1.50E-04	1.80E-07
3384	421062.1	3734662	5.40E-04	2.47E-03	5.40E-06	7.40E-05	3.38E-04	8.04E-07	4.54E-05	1.55E-04	1.87E-07
3385	421058.2	3734671	5.57E-04	2.55E-03	5.57E-06	7.64E-05	3.48E-04	8.30E-07	4.69E-05	1.60E-04	1.93E-07
3386	421054.3	3734680	5.73E-04	2.62E-03	5.73E-06	7.86E-05	3.59E-04	8.54E-07	4.82E-05	1.65E-04	1.98E-07
3387	421050.4	3734689	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.75E-07	4.95E-05	1.69E-04	2.03E-07
3388	421046.5	3734698	6.01E-04	2.75E-03	6.01E-06	8.24E-05	3.76E-04	8.95E-07	5.06E-05	1.73E-04	2.08E-07
3389	421042.6	3734707	6.15E-04	2.81E-03	6.14E-06	8.43E-05	3.84E-04	9.15E-07	5.17E-05	1.77E-04	2.12E-07
3390	421038.8	3734716	6.26E-04	2.86E-03	6.25E-06	8.58E-05	3.91E-04	9.31E-07	5.26E-05	1.80E-04	2.16E-07
3391	421034.9	3734725	6.34E-04	2.90E-03	6.33E-06	8.69E-05	3.96E-04	9.43E-07	5.33E-05	1.82E-04	2.19E-07
3392	421023.2	3734751	6.38E-04	2.92E-03	6.38E-06	8.75E-05	3.99E-04	9.50E-07	5.37E-05	1.83E-04	2.21E-07
3393	421019.3	3734760	6.36E-04	2.91E-03	6.36E-06	8.72E-05	3.98E-04	9.47E-07	5.35E-05	1.83E-04	2.20E-07
3394	420990.8	3734809	6.16E-04	2.82E-03	6.16E-06	8.45E-05	3.85E-04	9.17E-07	5.18E-05	1.77E-04	2.13E-07
3395	420981.8	3734813	6.28E-04	2.87E-03	6.28E-06	8.61E-05	3.93E-04	9.35E-07	5.28E-05	1.81E-04	2.17E-07
3396	420972.8	3734817	6.38E-04	2.92E-03	6.38E-06	8.75E-05	3.99E-04	9.50E-07	5.37E-05	1.83E-04	2.21E-07
3397	420963.8	3734820	6.47E-04	2.96E-03	6.46E-06	8.86E-05	4.04E-04	9.62E-07	5.44E-05	1.86E-04	2.23E-07
3398	420954.8	3734824	6.53E-04	2.99E-03	6.53E-06	8.95E-05	4.08E-04	9.72E-07	5.49E-05	1.88E-04	2.26E-07
3399	420945.7	3734828	6.57E-04	3.00E-03	6.57E-06	9.01E-05	4.11E-04	9.78E-07	5.53E-05	1.89E-04	2.27E-07
3400	420936.7	3734832	6.57E-04	3.01E-03	6.57E-06	9.01E-05	4.11E-04	9.79E-07	5.53E-05	1.89E-04	2.27E-07
3401	420927.7	3734836	6.54E-04	2.99E-03	6.54E-06	8.97E-05	4.09E-04	9.74E-07	5.50E-05	1.88E-04	2.26E-07
3402	420918.7	3734839	6.47E-04	2.96E-03	6.47E-06	8.87E-05	4.04E-04	9.63E-07	5.44E-05	1.86E-04	2.24E-07
3403	420909.7	3734843	6.36E-04	2.91E-03	6.36E-06	8.72E-05	3.98E-04	9.47E-07	5.35E-05	1.83E-04	2.20E-07
3404	420900.6	3734847	6.22E-04	2.85E-03	6.22E-06	8.53E-05	3.89E-04	9.26E-07	5.24E-05	1.79E-04	2.15E-07
3405	420891.6	3734851	6.04E-04	2.76E-03	6.04E-06	8.28E-05	3.78E-04	8.99E-07	5.08E-05	1.74E-04	2.09E-07
3406	420882.6	3734854	5.83E-04	2.66E-03	5.83E-06	7.99E-05	3.64E-04	8.68E-07	4.90E-05	1.67E-04	2.01E-07
3407	420873.6	3734858	5.59E-04	2.56E-03	5.59E-06	7.66E-05	3.49E-04	8.32E-07	4.70E-05	1.61E-04	1.93E-07
3408	420864.6	3734862	5.33E-04	2.44E-03	5.32E-06	7.30E-05	3.33E-04	7.93E-07	4.48E-05	1.53E-04	1.84E-07
3409	420855.6	3734866	5.04E-04	2.31E-03	5.04E-06	6.91E-05	3.15E-04	7.51E-07	4.24E-05	1.45E-04	1.74E-07
3410	420846.5	3734870	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	3.99E-05	1.36E-04	1.64E-07
3411	420837.5	3734873	4.44E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.61E-07	3.74E-05	1.28E-04	1.53E-07
3412	420828.5	3734877	4.13E-04	1.89E-03	4.13E-06	5.66E-05	2.58E-04	6.15E-07	3.47E-05	1.19E-04	1.43E-07
3413	420819.5	3734881	3.82E-04	1.75E-03	3.82E-06	5.23E-05	2.39E-04	5.68E-07	3.21E-05	1.10E-04	1.32E-07
3414	420810.5	3734885	3.51E-04	1.60E-03	3.50E-06	4.81E-05	2.19E-04	5.22E-07	2.95E-05	1.01E-04	1.21E-07
3415	420801.4	3734888	3.21E-04	1.47E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.70E-05	9.21E-05	1.11E-07
3416	420792.4	3734892	2.92E-04	1.33E-03	2.92E-06	4.00E-05	1.83E-04	4.35E-07	2.46E-05	8.39E-05	1.01E-07
3417	420783.4	3734896	2.65E-04	1.21E-03	2.65E-06	3.64E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.16E-08
3418	420774.4	3734900	2.40E-04	1.10E-03	2.39E-06	3.28E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.28E-08

3419	420765.4	3734904	2.16E-04	9.86E-04	2.16E-06	2.96E-05	1.35E-04	3.21E-07	1.81E-05	6.20E-05	7.45E-08
3420	420756.3	3734907	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
3421	420747.3	3734911	1.73E-04	7.92E-04	1.73E-06	2.38E-05	1.08E-04	2.58E-07	1.46E-05	4.98E-05	5.99E-08
3422	421144.9	3734564	2.37E-04	1.08E-03	2.37E-06	3.25E-05	1.48E-04	3.53E-07	1.99E-05	6.81E-05	8.19E-08
3423	421141	3734573	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.14E-05	7.30E-05	8.78E-08
3424	421137.1	3734582	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.80E-05	9.38E-08
3425	421133.2	3734591	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.80E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3426	421129.3	3734600	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.92E-04	4.56E-07	2.58E-05	8.81E-05	1.06E-07
3427	421125.4	3734609	3.25E-04	1.48E-03	3.25E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.33E-05	1.12E-07
3428	421121.5	3734618	3.42E-04	1.56E-03	3.42E-06	4.69E-05	2.14E-04	5.09E-07	2.88E-05	9.83E-05	1.18E-07
3429	421117.6	3734627	3.59E-04	1.64E-03	3.59E-06	4.92E-05	2.24E-04	5.35E-07	3.02E-05	1.03E-04	1.24E-07
3430	421090.3	3734690	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
3431	421086.4	3734699	4.74E-04	2.17E-03	4.74E-06	6.50E-05	2.97E-04	7.06E-07	3.99E-05	1.36E-04	1.64E-07
3432	421082.5	3734708	4.86E-04	2.22E-03	4.86E-06	6.67E-05	3.04E-04	7.24E-07	4.09E-05	1.40E-04	1.68E-07
3433	421078.6	3734717	4.97E-04	2.27E-03	4.97E-06	6.82E-05	3.11E-04	7.40E-07	4.18E-05	1.43E-04	1.72E-07
3434	421074.7	3734726	5.08E-04	2.32E-03	5.07E-06	6.96E-05	3.17E-04	7.56E-07	4.27E-05	1.46E-04	1.75E-07
3435	421063	3734753	5.28E-04	2.41E-03	5.28E-06	7.24E-05	3.30E-04	7.86E-07	4.44E-05	1.52E-04	1.82E-07
3436	421059.1	3734762	5.31E-04	2.43E-03	5.30E-06	7.28E-05	3.32E-04	7.90E-07	4.47E-05	1.53E-04	1.83E-07
3437	421055.2	3734771	5.28E-04	2.42E-03	5.28E-06	7.24E-05	3.30E-04	7.86E-07	4.44E-05	1.52E-04	1.83E-07
3438	421051.3	3734780	5.29E-04	2.42E-03	5.28E-06	7.25E-05	3.31E-04	7.87E-07	4.45E-05	1.52E-04	1.83E-07
3439	421047.4	3734789	5.28E-04	2.41E-03	5.27E-06	7.23E-05	3.30E-04	7.85E-07	4.44E-05	1.52E-04	1.82E-07
3440	421043.5	3734798	5.25E-04	2.40E-03	5.25E-06	7.20E-05	3.28E-04	7.82E-07	4.42E-05	1.51E-04	1.81E-07
3441	421039.7	3734807	5.21E-04	2.38E-03	5.21E-06	7.15E-05	3.26E-04	7.76E-07	4.39E-05	1.50E-04	1.80E-07
3442	421035.8	3734816	5.17E-04	2.36E-03	5.16E-06	7.08E-05	3.23E-04	7.69E-07	4.35E-05	1.48E-04	1.79E-07
3443	421031.9	3734825	5.11E-04	2.34E-03	5.10E-06	7.00E-05	3.19E-04	7.60E-07	4.30E-05	1.47E-04	1.76E-07
3444	421018.9	3734838	5.12E-04	2.34E-03	5.12E-06	7.02E-05	3.20E-04	7.62E-07	4.31E-05	1.47E-04	1.77E-07
3445	420991.8	3734849	5.34E-04	2.44E-03	5.34E-06	7.33E-05	3.34E-04	7.96E-07	4.50E-05	1.54E-04	1.85E-07
3446	420982.8	3734853	5.40E-04	2.47E-03	5.40E-06	7.40E-05	3.38E-04	8.04E-07	4.54E-05	1.55E-04	1.87E-07
3447	420973.8	3734856	5.44E-04	2.49E-03	5.44E-06	7.45E-05	3.40E-04	8.09E-07	4.58E-05	1.56E-04	1.88E-07
3448	420964.7	3734860	5.46E-04	2.49E-03	5.45E-06	7.48E-05	3.41E-04	8.12E-07	4.59E-05	1.57E-04	1.89E-07
3449	420955.7	3734864	5.45E-04	2.49E-03	5.45E-06	7.47E-05	3.41E-04	8.11E-07	4.58E-05	1.57E-04	1.88E-07
3450	420946.7	3734868	5.42E-04	2.48E-03	5.42E-06	7.43E-05	3.39E-04	8.07E-07	4.56E-05	1.56E-04	1.87E-07
3451	420937.6	3734872	5.37E-04	2.45E-03	5.36E-06	7.36E-05	3.35E-04	7.99E-07	4.51E-05	1.54E-04	1.85E-07
3452	420928.6	3734875	5.29E-04	2.42E-03	5.28E-06	7.25E-05	3.30E-04	7.87E-07	4.45E-05	1.52E-04	1.83E-07
3453	420919.6	3734879	5.17E-04	2.37E-03	5.17E-06	7.09E-05	3.23E-04	7.70E-07	4.35E-05	1.49E-04	1.79E-07
3454	420910.5	3734883	5.04E-04	2.30E-03	5.03E-06	6.90E-05	3.15E-04	7.50E-07	4.24E-05	1.45E-04	1.74E-07
3455	420901.5	3734887	4.87E-04	2.23E-03	4.87E-06	6.68E-05	3.05E-04	7.26E-07	4.10E-05	1.40E-04	1.68E-07
3456	420892.5	3734891	4.69E-04	2.15E-03	4.69E-06	6.43E-05	2.93E-04	6.98E-07	3.95E-05	1.35E-04	1.62E-07
3457	420883.4	3734894	4.49E-04	2.05E-03	4.49E-06	6.15E-05	2.81E-04	6.68E-07	3.78E-05	1.29E-04	1.55E-07
3458	420874.4	3734898	4.27E-04	1.95E-03	4.27E-06	5.85E-05	2.67E-04	6.35E-07	3.59E-05	1.23E-04	1.48E-07
3459	420865.4	3734902	4.04E-04	1.85E-03	4.03E-06	5.53E-05	2.52E-04	6.01E-07	3.40E-05	1.16E-04	1.40E-07
3460	420856.3	3734906	3.80E-04	1.74E-03	3.80E-06	5.21E-05	2.38E-04	5.66E-07	3.20E-05	1.09E-04	1.31E-07
3461	420847.3	3734909	3.56E-04	1.63E-03	3.55E-06	4.88E-05	2.22E-04	5.29E-07	2.99E-05	1.02E-04	1.23E-07
3462	420838.3	3734913	3.31E-04	1.52E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.15E-07
3463	420829.2	3734917	3.07E-04	1.41E-03	3.07E-06	4.21E-05	1.92E-04	4.58E-07	2.59E-05	8.83E-05	1.06E-07
3464	420820.2	3734921	2.84E-04	1.30E-03	2.84E-06	3.89E-05	1.77E-04	4.23E-07	2.39E-05	8.16E-05	9.81E-08
3465	420811.2	3734925	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.88E-07	2.20E-05	7.50E-05	9.02E-08
3466	420802.1	3734928	2.40E-04	1.10E-03	2.39E-06	3.28E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.28E-08
3467	420793.1	3734932	2.19E-04	1.00E-03	2.19E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.31E-05	7.58E-08
3468	420784.1	3734936	2.01E-04	9.17E-04	2.00E-06	2.75E-05	1.25E-04	2.99E-07	1.69E-05	5.76E-05	6.93E-08
3469	420775	3734940	1.82E-04	8.34E-04	1.82E-06	2.50E-05	1.14E-04	2.72E-07	1.53E-05	5.24E-05	6.30E-08
3470	420766	3734944	1.65E-04	7.55E-04	1.65E-06	2.26E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.71E-08
3471	420757	3734947	1.49E-04	6.83E-04	1.49E-06	2.05E-05	9.34E-05	2.22E-07	1.26E-05	4.29E-05	5.16E-08
3472	420747.9	3734951	1.35E-04	6.15E-04	1.34E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
3473	421152.9	3734536	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
3474	421153.2	3734526	1.86E-04	8.49E-04	1.86E-06	2.55E-05	1.16E-04	2.77E-07	1.56E-05	5.34E-05	6.42E-08
3475	421153.4	3734516	1.76E-04	8.03E-04	1.76E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.05E-05	6.07E-08
3476	421184.8	3734565	1.86E-04	8.52E-04	1.86E-06	2.56E-05	1.17E-04	2.77E-07	1.57E-05	5.36E-05	6.44E-08
3477	421180.9	3734574	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.85E-08

3478	421177	3734583	2.11E-04	9.63E-04	2.11E-06	2.89E-05	1.32E-04	3.14E-07	1.77E-05	6.05E-05	7.28E-08
3479	421173.1	3734592	2.24E-04	1.03E-03	2.24E-06	3.08E-05	1.40E-04	3.34E-07	1.89E-05	6.45E-05	7.75E-08
3480	421169.2	3734601	2.38E-04	1.09E-03	2.38E-06	3.27E-05	1.49E-04	3.55E-07	2.01E-05	6.85E-05	8.24E-08
3481	421165.3	3734610	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.76E-07	2.13E-05	7.27E-05	8.74E-08
3482	421161.4	3734619	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.24E-05	7.66E-05	9.22E-08
3483	421157.5	3734628	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.70E-08
3484	421153.6	3734637	2.95E-04	1.35E-03	2.94E-06	4.04E-05	1.84E-04	4.38E-07	2.48E-05	8.46E-05	1.02E-07
3485	421149.7	3734646	3.08E-04	1.41E-03	3.08E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.85E-05	1.06E-07
3486	421145.8	3734655	3.21E-04	1.47E-03	3.21E-06	4.40E-05	2.01E-04	4.77E-07	2.70E-05	9.22E-05	1.11E-07
3487	421141.9	3734664	3.33E-04	1.52E-03	3.33E-06	4.56E-05	2.08E-04	4.96E-07	2.80E-05	9.57E-05	1.15E-07
3488	421138	3734673	3.45E-04	1.58E-03	3.45E-06	4.73E-05	2.16E-04	5.14E-07	2.90E-05	9.92E-05	1.19E-07
3489	421134.1	3734682	3.58E-04	1.64E-03	3.58E-06	4.90E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
3490	421130.2	3734691	3.70E-04	1.69E-03	3.69E-06	5.07E-05	2.31E-04	5.50E-07	3.11E-05	1.06E-04	1.28E-07
3491	421126.3	3734700	3.81E-04	1.74E-03	3.80E-06	5.22E-05	2.38E-04	5.67E-07	3.20E-05	1.09E-04	1.32E-07
3492	421122.4	3734709	3.91E-04	1.79E-03	3.91E-06	5.36E-05	2.45E-04	5.82E-07	3.29E-05	1.12E-04	1.35E-07
3493	421118.5	3734718	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.37E-05	1.15E-04	1.39E-07
3494	421091.2	3734781	4.43E-04	2.03E-03	4.43E-06	6.08E-05	2.77E-04	6.60E-07	3.73E-05	1.27E-04	1.53E-07
3495	421087.3	3734790	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.74E-05	1.28E-04	1.54E-07
3496	421083.4	3734799	4.45E-04	2.03E-03	4.45E-06	6.10E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
3497	421079.5	3734808	4.44E-04	2.03E-03	4.44E-06	6.08E-05	2.77E-04	6.61E-07	3.73E-05	1.28E-04	1.53E-07
3498	421075.6	3734817	4.42E-04	2.02E-03	4.42E-06	6.06E-05	2.77E-04	6.58E-07	3.72E-05	1.27E-04	1.53E-07
3499	421071.7	3734826	4.40E-04	2.01E-03	4.39E-06	6.02E-05	2.75E-04	6.54E-07	3.70E-05	1.26E-04	1.52E-07
3500	421067.8	3734835	4.36E-04	1.99E-03	4.36E-06	5.98E-05	2.73E-04	6.49E-07	3.67E-05	1.25E-04	1.51E-07
3501	421063.9	3734844	4.32E-04	1.97E-03	4.32E-06	5.92E-05	2.70E-04	6.43E-07	3.63E-05	1.24E-04	1.49E-07
3502	421060	3734853	4.28E-04	1.96E-03	4.27E-06	5.86E-05	2.67E-04	6.37E-07	3.60E-05	1.23E-04	1.48E-07
3503	421047	3734866	4.32E-04	1.98E-03	4.32E-06	5.92E-05	2.70E-04	6.43E-07	3.63E-05	1.24E-04	1.49E-07
3504	421038	3734870	4.39E-04	2.01E-03	4.39E-06	6.02E-05	2.74E-04	6.53E-07	3.69E-05	1.26E-04	1.52E-07
3505	421028.9	3734874	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3506	421019.9	3734877	4.51E-04	2.06E-03	4.50E-06	6.18E-05	2.82E-04	6.71E-07	3.79E-05	1.29E-04	1.56E-07
3507	420992.8	3734889	4.60E-04	2.10E-03	4.59E-06	6.30E-05	2.87E-04	6.84E-07	3.87E-05	1.32E-04	1.59E-07
3508	420983.7	3734893	4.60E-04	2.10E-03	4.60E-06	6.31E-05	2.88E-04	6.85E-07	3.87E-05	1.32E-04	1.59E-07
3509	420974.7	3734896	4.60E-04	2.10E-03	4.59E-06	6.30E-05	2.87E-04	6.84E-07	3.87E-05	1.32E-04	1.59E-07
3510	420965.6	3734900	4.57E-04	2.09E-03	4.57E-06	6.26E-05	2.86E-04	6.80E-07	3.84E-05	1.31E-04	1.58E-07
3511	420956.6	3734904	4.52E-04	2.07E-03	4.52E-06	6.20E-05	2.83E-04	6.73E-07	3.81E-05	1.30E-04	1.56E-07
3512	420947.5	3734908	4.45E-04	2.04E-03	4.45E-06	6.10E-05	2.78E-04	6.63E-07	3.75E-05	1.28E-04	1.54E-07
3513	420938.5	3734911	4.36E-04	2.00E-03	4.36E-06	5.98E-05	2.73E-04	6.50E-07	3.67E-05	1.25E-04	1.51E-07
3514	420929.4	3734915	4.26E-04	1.95E-03	4.25E-06	5.83E-05	2.66E-04	6.34E-07	3.58E-05	1.22E-04	1.47E-07
3515	420920.4	3734919	4.13E-04	1.89E-03	4.13E-06	5.66E-05	2.58E-04	6.15E-07	3.48E-05	1.19E-04	1.43E-07
3516	420911.3	3734923	3.99E-04	1.82E-03	3.99E-06	5.47E-05	2.49E-04	5.94E-07	3.36E-05	1.15E-04	1.38E-07
3517	420902.3	3734927	3.83E-04	1.75E-03	3.83E-06	5.25E-05	2.39E-04	5.70E-07	3.22E-05	1.10E-04	1.32E-07
3518	420893.3	3734930	3.66E-04	1.67E-03	3.66E-06	5.02E-05	2.29E-04	5.45E-07	3.08E-05	1.05E-04	1.26E-07
3519	420884.2	3734934	3.48E-04	1.59E-03	3.48E-06	4.77E-05	2.18E-04	5.18E-07	2.93E-05	1.00E-04	1.20E-07
3520	420875.2	3734938	3.30E-04	1.51E-03	3.30E-06	4.52E-05	2.06E-04	4.91E-07	2.78E-05	9.48E-05	1.14E-07
3521	420866.1	3734942	3.11E-04	1.42E-03	3.11E-06	4.27E-05	1.95E-04	4.63E-07	2.62E-05	8.94E-05	1.08E-07
3522	420857.1	3734946	2.92E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.35E-07	2.46E-05	8.40E-05	1.01E-07
3523	420848	3734949	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.07E-07	2.30E-05	7.85E-05	9.44E-08
3524	420839	3734953	2.54E-04	1.16E-03	2.54E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.31E-05	8.79E-08
3525	420829.9	3734957	2.36E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.79E-05	8.16E-08
3526	420820.9	3734961	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.29E-05	7.56E-08
3527	420811.8	3734965	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.99E-08
3528	420802.8	3734968	1.86E-04	8.51E-04	1.86E-06	2.55E-05	1.16E-04	2.77E-07	1.57E-05	5.35E-05	6.43E-08
3529	420793.7	3734972	1.70E-04	7.79E-04	1.70E-06	2.34E-05	1.07E-04	2.54E-07	1.43E-05	4.90E-05	5.89E-08
3530	420784.7	3734976	1.56E-04	7.12E-04	1.56E-06	2.13E-05	9.74E-05	2.32E-07	1.31E-05	4.47E-05	5.38E-08
3531	420775.7	3734980	1.42E-04	6.50E-04	1.42E-06	1.95E-05	8.88E-05	2.11E-07	1.20E-05	4.08E-05	4.91E-08
3532	420766.6	3734984	1.29E-04	5.91E-04	1.29E-06	1.77E-05	8.09E-05	1.93E-07	1.09E-05	3.72E-05	4.47E-08
3533	420757.6	3734987	1.18E-04	5.38E-04	1.18E-06	1.61E-05	7.36E-05	1.75E-07	9.90E-06	3.38E-05	4.07E-08
3534	420748.5	3734991	1.07E-04	4.89E-04	1.07E-06	1.47E-05	6.69E-05	1.59E-07	9.00E-06	3.07E-05	3.69E-08
3535	421192.9	3734537	1.56E-04	7.14E-04	1.56E-06	2.14E-05	9.77E-05	2.33E-07	1.31E-05	4.49E-05	5.40E-08
3536	421193.2	3734527	1.48E-04	6.79E-04	1.48E-06	2.03E-05	9.28E-05	2.21E-07	1.25E-05	4.27E-05	5.13E-08

3537	421193.4	3734517	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.81E-05	2.10E-07	1.19E-05	4.05E-05	4.87E-08
3538	421213.1	3734593	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.20E-05	6.25E-08
3539	421209.2	3734602	1.91E-04	8.74E-04	1.91E-06	2.62E-05	1.20E-04	2.85E-07	1.61E-05	5.49E-05	6.61E-08
3540	421205.3	3734611	2.02E-04	9.22E-04	2.02E-06	2.76E-05	1.26E-04	3.00E-07	1.70E-05	5.79E-05	6.97E-08
3541	421201.4	3734620	2.12E-04	9.68E-04	2.12E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.09E-05	7.32E-08
3542	421197.5	3734629	2.22E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
3543	421193.6	3734638	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.48E-07	1.96E-05	6.71E-05	8.07E-08
3544	421189.7	3734647	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.64E-07	2.06E-05	7.03E-05	8.46E-08
3545	421185.7	3734656	2.56E-04	1.17E-03	2.56E-06	3.51E-05	1.60E-04	3.81E-07	2.15E-05	7.35E-05	8.84E-08
3546	421181.8	3734665	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.25E-05	7.67E-05	9.22E-08
3547	421177.9	3734674	2.77E-04	1.27E-03	2.77E-06	3.80E-05	1.73E-04	4.13E-07	2.33E-05	7.97E-05	9.59E-08
3548	421174	3734683	2.88E-04	1.32E-03	2.88E-06	3.95E-05	1.80E-04	4.29E-07	2.42E-05	8.28E-05	9.96E-08
3549	421170.1	3734692	2.99E-04	1.37E-03	2.99E-06	4.10E-05	1.87E-04	4.45E-07	2.51E-05	8.59E-05	1.03E-07
3550	421166.2	3734701	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
3551	421162.3	3734710	3.18E-04	1.45E-03	3.18E-06	4.36E-05	1.99E-04	4.73E-07	2.67E-05	9.13E-05	1.10E-07
3552	421158.4	3734719	3.27E-04	1.49E-03	3.26E-06	4.48E-05	2.04E-04	4.86E-07	2.75E-05	9.39E-05	1.13E-07
3553	421154.5	3734728	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.10E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
3554	421150.6	3734737	3.42E-04	1.57E-03	3.42E-06	4.69E-05	2.14E-04	5.10E-07	2.88E-05	9.84E-05	1.18E-07
3555	421146.7	3734746	3.49E-04	1.60E-03	3.49E-06	4.79E-05	2.18E-04	5.20E-07	2.94E-05	1.00E-04	1.21E-07
3556	421142.8	3734756	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.22E-04	5.30E-07	2.99E-05	1.02E-04	1.23E-07
3557	421138.9	3734765	3.61E-04	1.65E-03	3.61E-06	4.95E-05	2.26E-04	5.38E-07	3.04E-05	1.04E-04	1.25E-07
3558	421135	3734774	3.66E-04	1.67E-03	3.66E-06	5.02E-05	2.29E-04	5.45E-07	3.08E-05	1.05E-04	1.26E-07
3559	421131.1	3734783	3.70E-04	1.69E-03	3.70E-06	5.07E-05	2.31E-04	5.51E-07	3.11E-05	1.06E-04	1.28E-07
3560	421127.2	3734792	3.73E-04	1.71E-03	3.73E-06	5.11E-05	2.33E-04	5.55E-07	3.14E-05	1.07E-04	1.29E-07
3561	421092	3734873	3.60E-04	1.64E-03	3.59E-06	4.93E-05	2.25E-04	5.35E-07	3.03E-05	1.03E-04	1.24E-07
3562	421088.1	3734882	3.57E-04	1.63E-03	3.57E-06	4.89E-05	2.23E-04	5.31E-07	3.00E-05	1.03E-04	1.23E-07
3563	421075.1	3734894	3.63E-04	1.66E-03	3.63E-06	4.98E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
3564	421066.1	3734898	3.70E-04	1.69E-03	3.70E-06	5.08E-05	2.31E-04	5.51E-07	3.11E-05	1.06E-04	1.28E-07
3565	421057	3734902	3.77E-04	1.72E-03	3.77E-06	5.17E-05	2.36E-04	5.61E-07	3.17E-05	1.08E-04	1.30E-07
3566	421048	3734906	3.83E-04	1.75E-03	3.82E-06	5.25E-05	2.39E-04	5.70E-07	3.22E-05	1.10E-04	1.32E-07
3567	421038.9	3734910	3.87E-04	1.77E-03	3.87E-06	5.31E-05	2.42E-04	5.76E-07	3.26E-05	1.11E-04	1.34E-07
3568	421029.8	3734913	3.91E-04	1.79E-03	3.90E-06	5.35E-05	2.44E-04	5.81E-07	3.29E-05	1.12E-04	1.35E-07
3569	421020.8	3734917	3.93E-04	1.80E-03	3.93E-06	5.39E-05	2.46E-04	5.85E-07	3.31E-05	1.13E-04	1.36E-07
3570	420993.6	3734929	3.91E-04	1.79E-03	3.91E-06	5.36E-05	2.45E-04	5.82E-07	3.29E-05	1.12E-04	1.35E-07
3571	420984.6	3734932	3.89E-04	1.78E-03	3.88E-06	5.33E-05	2.43E-04	5.78E-07	3.27E-05	1.12E-04	1.34E-07
3572	420975.5	3734936	3.85E-04	1.76E-03	3.84E-06	5.27E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
3573	420966.5	3734940	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.65E-07	3.19E-05	1.09E-04	1.31E-07
3574	420957.4	3734944	3.72E-04	1.70E-03	3.72E-06	5.11E-05	2.33E-04	5.54E-07	3.13E-05	1.07E-04	1.29E-07
3575	420948.3	3734948	3.64E-04	1.66E-03	3.64E-06	4.99E-05	2.27E-04	5.41E-07	3.06E-05	1.05E-04	1.26E-07
3576	420939.3	3734951	3.54E-04	1.62E-03	3.54E-06	4.85E-05	2.21E-04	5.27E-07	2.98E-05	1.02E-04	1.22E-07
3577	420930.2	3734955	3.43E-04	1.57E-03	3.43E-06	4.70E-05	2.14E-04	5.10E-07	2.88E-05	9.85E-05	1.18E-07
3578	420921.2	3734959	3.30E-04	1.51E-03	3.30E-06	4.52E-05	2.06E-04	4.91E-07	2.78E-05	9.48E-05	1.14E-07
3579	420912.1	3734963	3.16E-04	1.45E-03	3.16E-06	4.33E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
3580	420903.1	3734967	3.02E-04	1.38E-03	3.02E-06	4.14E-05	1.89E-04	4.49E-07	2.54E-05	8.67E-05	1.04E-07
3581	420894	3734970	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
3582	420885	3734974	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.07E-07	2.30E-05	7.85E-05	9.44E-08
3583	420875.9	3734978	2.59E-04	1.18E-03	2.58E-06	3.54E-05	1.62E-04	3.85E-07	2.18E-05	7.43E-05	8.93E-08
3584	420866.8	3734982	2.44E-04	1.11E-03	2.44E-06	3.34E-05	1.52E-04	3.63E-07	2.05E-05	7.00E-05	8.42E-08
3585	420857.8	3734986	2.28E-04	1.04E-03	2.28E-06	3.13E-05	1.43E-04	3.40E-07	1.92E-05	6.56E-05	7.89E-08
3586	420848.7	3734989	2.13E-04	9.75E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.13E-05	7.37E-08
3587	420839.7	3734993	1.98E-04	9.07E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
3588	420830.6	3734997	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3589	420821.6	3735001	1.70E-04	7.78E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.89E-05	5.88E-08
3590	420812.5	3735005	1.57E-04	7.18E-04	1.57E-06	2.15E-05	9.82E-05	2.34E-07	1.32E-05	4.51E-05	5.43E-08
3591	420803.4	3735008	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
3592	420794.4	3735012	1.34E-04	6.11E-04	1.33E-06	1.83E-05	8.35E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
3593	420785.3	3735016	1.23E-04	5.62E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.03E-05	3.53E-05	4.25E-08
3594	420776.3	3735020	1.13E-04	5.16E-04	1.13E-06	1.55E-05	7.06E-05	1.68E-07	9.50E-06	3.24E-05	3.90E-08
3595	420767.2	3735024	1.03E-04	4.72E-04	1.03E-06	1.42E-05	6.46E-05	1.54E-07	8.69E-06	2.97E-05	3.57E-08

3596	421232.9	3734538	1.30E-04	5.94E-04	1.30E-06	1.78E-05	8.12E-05	1.93E-07	1.09E-05	3.73E-05	4.49E-08
3597	421233.2	3734528	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.84E-07	1.04E-05	3.55E-05	4.26E-08
3598	421233.4	3734518	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.32E-05	1.74E-07	9.86E-06	3.37E-05	4.05E-08
3599	421253.1	3734594	1.51E-04	6.89E-04	1.51E-06	2.07E-05	9.42E-05	2.24E-07	1.27E-05	4.33E-05	5.21E-08
3600	421249.1	3734603	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
3601	421245.2	3734612	1.68E-04	7.67E-04	1.68E-06	2.30E-05	1.05E-04	2.50E-07	1.41E-05	4.82E-05	5.80E-08
3602	421241.3	3734622	1.76E-04	8.05E-04	1.76E-06	2.41E-05	1.10E-04	2.62E-07	1.48E-05	5.06E-05	6.09E-08
3603	421237.4	3734631	1.85E-04	8.44E-04	1.84E-06	2.53E-05	1.15E-04	2.75E-07	1.55E-05	5.30E-05	6.38E-08
3604	421233.5	3734640	1.93E-04	8.83E-04	1.93E-06	2.65E-05	1.21E-04	2.87E-07	1.62E-05	5.55E-05	6.67E-08
3605	421229.6	3734649	2.01E-04	9.19E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
3606	421225.7	3734658	2.09E-04	9.56E-04	2.09E-06	2.87E-05	1.31E-04	3.11E-07	1.76E-05	6.01E-05	7.23E-08
3607	421221.8	3734667	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
3608	421217.9	3734676	2.26E-04	1.03E-03	2.25E-06	3.09E-05	1.41E-04	3.36E-07	1.90E-05	6.48E-05	7.79E-08
3609	421214	3734685	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.47E-07	1.96E-05	6.71E-05	8.07E-08
3610	421210	3734694	2.41E-04	1.10E-03	2.41E-06	3.30E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.33E-08
3611	421206.1	3734703	2.49E-04	1.14E-03	2.49E-06	3.41E-05	1.56E-04	3.70E-07	2.09E-05	7.15E-05	8.60E-08
3612	421202.2	3734712	2.57E-04	1.17E-03	2.57E-06	3.52E-05	1.61E-04	3.82E-07	2.16E-05	7.38E-05	8.88E-08
3613	421198.3	3734721	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.16E-08
3614	421194.4	3734730	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.06E-07	2.30E-05	7.84E-05	9.43E-08
3615	421190.5	3734739	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.67E-08
3616	421186.6	3734748	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.24E-05	9.91E-08
3617	421182.7	3734757	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
3618	421178.8	3734766	2.99E-04	1.37E-03	2.99E-06	4.11E-05	1.87E-04	4.46E-07	2.52E-05	8.61E-05	1.03E-07
3619	421174.9	3734775	3.05E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.75E-05	1.05E-07
3620	421170.9	3734784	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
3621	421167	3734793	3.13E-04	1.43E-03	3.13E-06	4.29E-05	1.96E-04	4.66E-07	2.63E-05	8.99E-05	1.08E-07
3622	421155.3	3734820	3.15E-04	1.44E-03	3.15E-06	4.32E-05	1.97E-04	4.70E-07	2.65E-05	9.06E-05	1.09E-07
3623	421151.4	3734829	3.14E-04	1.44E-03	3.14E-06	4.31E-05	1.96E-04	4.68E-07	2.64E-05	9.03E-05	1.09E-07
3624	421147.5	3734838	3.13E-04	1.43E-03	3.12E-06	4.28E-05	1.95E-04	4.65E-07	2.63E-05	8.98E-05	1.08E-07
3625	421143.6	3734847	3.10E-04	1.42E-03	3.10E-06	4.26E-05	1.94E-04	4.62E-07	2.61E-05	8.92E-05	1.07E-07
3626	421139.7	3734856	3.09E-04	1.41E-03	3.08E-06	4.23E-05	1.93E-04	4.59E-07	2.60E-05	8.87E-05	1.07E-07
3627	421135.8	3734865	3.08E-04	1.41E-03	3.07E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
3628	421131.8	3734874	3.06E-04	1.40E-03	3.06E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.79E-05	1.06E-07
3629	421127.9	3734883	3.04E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.74E-05	1.05E-07
3630	421124	3734892	3.03E-04	1.38E-03	3.03E-06	4.15E-05	1.89E-04	4.51E-07	2.55E-05	8.70E-05	1.05E-07
3631	421085.1	3734931	3.19E-04	1.46E-03	3.19E-06	4.38E-05	2.00E-04	4.75E-07	2.69E-05	9.17E-05	1.10E-07
3632	421076	3734934	3.25E-04	1.48E-03	3.25E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.33E-05	1.12E-07
3633	421067	3734938	3.29E-04	1.51E-03	3.29E-06	4.51E-05	2.06E-04	4.90E-07	2.77E-05	9.46E-05	1.14E-07
3634	421057.9	3734942	3.33E-04	1.52E-03	3.33E-06	4.56E-05	2.08E-04	4.95E-07	2.80E-05	9.56E-05	1.15E-07
3635	421048.8	3734946	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.64E-05	1.16E-07
3636	421039.8	3734950	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.01E-07	2.83E-05	9.68E-05	1.16E-07
3637	421030.7	3734953	3.37E-04	1.54E-03	3.37E-06	4.63E-05	2.11E-04	5.02E-07	2.84E-05	9.70E-05	1.17E-07
3638	421021.6	3734957	3.37E-04	1.54E-03	3.37E-06	4.62E-05	2.11E-04	5.02E-07	2.84E-05	9.69E-05	1.17E-07
3639	420994.5	3734968	3.30E-04	1.51E-03	3.30E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.49E-05	1.14E-07
3640	420985.4	3734972	3.26E-04	1.49E-03	3.25E-06	4.46E-05	2.04E-04	4.85E-07	2.74E-05	9.36E-05	1.13E-07
3641	420976.3	3734976	3.20E-04	1.46E-03	3.19E-06	4.38E-05	2.00E-04	4.76E-07	2.69E-05	9.18E-05	1.10E-07
3642	420967.3	3734980	3.13E-04	1.43E-03	3.13E-06	4.29E-05	1.95E-04	4.65E-07	2.63E-05	8.98E-05	1.08E-07
3643	420958.2	3734984	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.56E-05	8.76E-05	1.05E-07
3644	420949.1	3734987	2.96E-04	1.35E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.51E-05	1.02E-07
3645	420940.1	3734991	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.23E-05	9.89E-08
3646	420931	3734995	2.76E-04	1.26E-03	2.76E-06	3.78E-05	1.72E-04	4.11E-07	2.32E-05	7.93E-05	9.53E-08
3647	420921.9	3734999	2.65E-04	1.21E-03	2.65E-06	3.63E-05	1.66E-04	3.94E-07	2.23E-05	7.61E-05	9.15E-08
3648	420912.9	3735003	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.27E-05	8.75E-08
3649	420903.8	3735006	2.41E-04	1.10E-03	2.41E-06	3.31E-05	1.51E-04	3.59E-07	2.03E-05	6.93E-05	8.34E-08
3650	420894.7	3735010	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.59E-05	7.93E-08
3651	420885.7	3735014	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
3652	420876.6	3735018	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
3653	420867.5	3735022	1.93E-04	8.84E-04	1.93E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.56E-05	6.68E-08
3654	420776.9	3735060	9.14E-05	4.18E-04	9.13E-07	1.25E-05	5.71E-05	1.36E-07	7.69E-06	2.63E-05	3.16E-08

3655	420767.8	3735063	8.38E-05	3.83E-04	8.38E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.90E-08
3656	420758.8	3735067	7.69E-05	3.52E-04	7.69E-07	1.05E-05	4.81E-05	1.14E-07	6.47E-06	2.21E-05	2.66E-08
3657	420749.7	3735071	7.06E-05	3.23E-04	7.05E-07	9.67E-06	4.41E-05	1.05E-07	5.94E-06	2.03E-05	2.44E-08
3658	421272.9	3734539	1.09E-04	4.96E-04	1.09E-06	1.49E-05	6.79E-05	1.62E-07	9.13E-06	3.12E-05	3.75E-08
3659	421273.1	3734529	1.03E-04	4.73E-04	1.03E-06	1.42E-05	6.46E-05	1.54E-07	8.70E-06	2.97E-05	3.57E-08
3660	421273.4	3734519	9.84E-05	4.50E-04	9.84E-07	1.35E-05	6.15E-05	1.46E-07	8.28E-06	2.83E-05	3.40E-08
3661	421304.8	3734568	1.05E-04	4.82E-04	1.05E-06	1.45E-05	6.59E-05	1.57E-07	8.87E-06	3.03E-05	3.64E-08
3662	421285.2	3734614	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.59E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
3663	421281.3	3734623	1.45E-04	6.62E-04	1.45E-06	1.99E-05	9.06E-05	2.16E-07	1.22E-05	4.16E-05	5.01E-08
3664	421277.4	3734632	1.52E-04	6.97E-04	1.52E-06	2.09E-05	9.52E-05	2.27E-07	1.28E-05	4.38E-05	5.26E-08
3665	421273.5	3734641	1.60E-04	7.31E-04	1.60E-06	2.19E-05	9.99E-05	2.38E-07	1.34E-05	4.59E-05	5.52E-08
3666	421269.5	3734650	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
3667	421265.6	3734659	1.74E-04	7.95E-04	1.74E-06	2.38E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3668	421261.7	3734668	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
3669	421257.8	3734677	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.38E-05	6.47E-08
3670	421253.9	3734686	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.88E-07	1.63E-05	5.57E-05	6.69E-08
3671	421250	3734695	2.00E-04	9.14E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
3672	421246.1	3734704	2.06E-04	9.43E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.73E-05	5.92E-05	7.12E-08
3673	421242.2	3734713	2.12E-04	9.70E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.78E-05	6.09E-05	7.33E-08
3674	421238.2	3734722	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
3675	421234.3	3734731	2.23E-04	1.02E-03	2.23E-06	3.06E-05	1.40E-04	3.33E-07	1.88E-05	6.42E-05	7.72E-08
3676	421230.4	3734740	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.58E-05	7.91E-08
3677	421226.5	3734749	2.35E-04	1.07E-03	2.35E-06	3.22E-05	1.47E-04	3.50E-07	1.98E-05	6.75E-05	8.12E-08
3678	421222.6	3734758	2.41E-04	1.10E-03	2.40E-06	3.30E-05	1.50E-04	3.58E-07	2.02E-05	6.91E-05	8.31E-08
3679	421218.7	3734767	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.65E-07	2.06E-05	7.04E-05	8.46E-08
3680	421214.8	3734776	2.50E-04	1.14E-03	2.50E-06	3.43E-05	1.56E-04	3.72E-07	2.10E-05	7.19E-05	8.65E-08
3681	421210.8	3734785	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.59E-04	3.80E-07	2.15E-05	7.33E-05	8.81E-08
3682	421206.9	3734794	2.59E-04	1.19E-03	2.59E-06	3.55E-05	1.62E-04	3.86E-07	2.18E-05	7.45E-05	8.96E-08
3683	421195.2	3734821	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.24E-05	7.67E-05	9.22E-08
3684	421191.3	3734830	2.68E-04	1.23E-03	2.68E-06	3.67E-05	1.68E-04	3.99E-07	2.25E-05	7.70E-05	9.26E-08
3685	421187.4	3734839	2.69E-04	1.23E-03	2.68E-06	3.68E-05	1.68E-04	4.00E-07	2.26E-05	7.72E-05	9.28E-08
3686	421183.5	3734848	2.68E-04	1.23E-03	2.68E-06	3.68E-05	1.68E-04	4.00E-07	2.26E-05	7.71E-05	9.28E-08
3687	421179.5	3734857	2.68E-04	1.23E-03	2.68E-06	3.67E-05	1.68E-04	3.99E-07	2.25E-05	7.70E-05	9.26E-08
3688	421175.6	3734866	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.98E-07	2.25E-05	7.68E-05	9.24E-08
3689	421171.7	3734875	2.66E-04	1.22E-03	2.66E-06	3.65E-05	1.66E-04	3.96E-07	2.24E-05	7.65E-05	9.20E-08
3690	421167.8	3734884	2.65E-04	1.21E-03	2.65E-06	3.64E-05	1.66E-04	3.95E-07	2.23E-05	7.62E-05	9.17E-08
3691	421163.9	3734893	2.64E-04	1.21E-03	2.64E-06	3.63E-05	1.65E-04	3.94E-07	2.22E-05	7.60E-05	9.14E-08
3692	421160	3734902	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
3693	421156.1	3734911	2.62E-04	1.20E-03	2.62E-06	3.59E-05	1.64E-04	3.90E-07	2.21E-05	7.53E-05	9.06E-08
3694	421152.1	3734920	2.61E-04	1.20E-03	2.61E-06	3.58E-05	1.63E-04	3.89E-07	2.20E-05	7.51E-05	9.03E-08
3695	421148.2	3734930	2.61E-04	1.19E-03	2.60E-06	3.57E-05	1.63E-04	3.88E-07	2.19E-05	7.49E-05	9.01E-08
3696	421144.3	3734939	2.60E-04	1.19E-03	2.60E-06	3.56E-05	1.62E-04	3.87E-07	2.19E-05	7.46E-05	8.98E-08
3697	421131.3	3734951	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
3698	421122.3	3734955	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.00E-07	2.26E-05	7.73E-05	9.30E-08
3699	421086	3734970	2.84E-04	1.30E-03	2.84E-06	3.90E-05	1.78E-04	4.23E-07	2.39E-05	8.17E-05	9.83E-08
3700	421076.9	3734974	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.24E-05	9.91E-08
3701	421067.8	3734978	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.81E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3702	421058.8	3734982	2.90E-04	1.33E-03	2.90E-06	3.97E-05	1.81E-04	4.32E-07	2.44E-05	8.33E-05	1.00E-07
3703	421049.7	3734986	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
3704	421040.6	3734989	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.81E-04	4.32E-07	2.44E-05	8.34E-05	1.00E-07
3705	421031.5	3734993	2.89E-04	1.32E-03	2.89E-06	3.96E-05	1.81E-04	4.30E-07	2.43E-05	8.30E-05	9.98E-08
3706	421022.5	3734997	2.87E-04	1.31E-03	2.86E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.23E-05	9.90E-08
3707	420995.2	3735008	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.10E-07	2.32E-05	7.91E-05	9.51E-08
3708	420986.2	3735012	2.70E-04	1.23E-03	2.70E-06	3.70E-05	1.69E-04	4.02E-07	2.27E-05	7.75E-05	9.32E-08
3709	420977.1	3735016	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.58E-05	9.11E-08
3710	420968	3735020	2.57E-04	1.17E-03	2.57E-06	3.52E-05	1.61E-04	3.82E-07	2.16E-05	7.38E-05	8.87E-08
3711	420913.6	3735043	2.04E-04	9.33E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.86E-05	7.05E-08
3712	420904.5	3735046	1.94E-04	8.88E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.58E-05	6.71E-08
3713	420895.4	3735050	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08

3714	420886.4	3735054	1.74E-04	7.96E-04	1.74E-06	2.39E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3715	420877.3	3735058	1.64E-04	7.50E-04	1.64E-06	2.25E-05	1.03E-04	2.44E-07	1.38E-05	4.71E-05	5.67E-08
3716	420868.2	3735062	1.54E-04	7.05E-04	1.54E-06	2.11E-05	9.64E-05	2.30E-07	1.30E-05	4.43E-05	5.33E-08
3717	420859.2	3735065	1.44E-04	6.60E-04	1.44E-06	1.98E-05	9.02E-05	2.15E-07	1.21E-05	4.15E-05	4.99E-08
3718	420850.1	3735069	1.35E-04	6.15E-04	1.35E-06	1.85E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
3719	420841	3735073	1.25E-04	5.72E-04	1.25E-06	1.72E-05	7.82E-05	1.86E-07	1.05E-05	3.60E-05	4.32E-08
3720	420831.9	3735077	1.16E-04	5.33E-04	1.16E-06	1.60E-05	7.28E-05	1.73E-07	9.80E-06	3.35E-05	4.03E-08
3721	421313.1	3734530	8.74E-05	3.99E-04	8.73E-07	1.20E-05	5.46E-05	1.30E-07	7.35E-06	2.51E-05	3.02E-08
3722	421313.4	3734520	8.34E-05	3.81E-04	8.34E-07	1.14E-05	5.21E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
3723	421344.7	3734570	8.86E-05	4.05E-04	8.86E-07	1.21E-05	5.54E-05	1.32E-07	7.46E-06	2.55E-05	3.06E-08
3724	421340.8	3734579	9.28E-05	4.24E-04	9.28E-07	1.27E-05	5.80E-05	1.38E-07	7.81E-06	2.67E-05	3.21E-08
3725	421336.9	3734588	9.77E-05	4.47E-04	9.76E-07	1.34E-05	6.11E-05	1.45E-07	8.22E-06	2.81E-05	3.38E-08
3726	421333	3734597	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
3727	421329.1	3734606	1.08E-04	4.93E-04	1.08E-06	1.48E-05	6.74E-05	1.60E-07	9.07E-06	3.10E-05	3.72E-08
3728	421325.2	3734615	1.13E-04	5.17E-04	1.13E-06	1.55E-05	7.08E-05	1.68E-07	9.52E-06	3.25E-05	3.91E-08
3729	421321.2	3734624	1.19E-04	5.44E-04	1.19E-06	1.63E-05	7.44E-05	1.77E-07	1.00E-05	3.42E-05	4.11E-08
3730	421317.3	3734633	1.25E-04	5.71E-04	1.25E-06	1.71E-05	7.81E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
3731	421313.4	3734642	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.21E-05	1.95E-07	1.10E-05	3.77E-05	4.54E-08
3732	421309.5	3734651	1.38E-04	6.29E-04	1.37E-06	1.89E-05	8.60E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
3733	421305.6	3734660	1.44E-04	6.58E-04	1.44E-06	1.97E-05	8.99E-05	2.14E-07	1.21E-05	4.13E-05	4.97E-08
3734	421301.7	3734669	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.19E-08
3735	421278.2	3734723	1.83E-04	8.37E-04	1.83E-06	2.51E-05	1.14E-04	2.73E-07	1.54E-05	5.26E-05	6.33E-08
3736	421274.3	3734732	1.88E-04	8.60E-04	1.88E-06	2.58E-05	1.18E-04	2.80E-07	1.58E-05	5.40E-05	6.50E-08
3737	421270.3	3734741	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.21E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
3738	421266.4	3734750	1.97E-04	9.02E-04	1.97E-06	2.71E-05	1.23E-04	2.94E-07	1.66E-05	5.67E-05	6.82E-08
3739	421262.5	3734759	2.02E-04	9.23E-04	2.02E-06	2.77E-05	1.26E-04	3.00E-07	1.70E-05	5.80E-05	6.97E-08
3740	421258.6	3734768	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.73E-05	5.89E-05	7.09E-08
3741	421254.7	3734777	2.09E-04	9.57E-04	2.09E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.02E-05	7.24E-08
3742	421250.8	3734786	2.13E-04	9.76E-04	2.13E-06	2.92E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.37E-08
3743	421246.8	3734795	2.17E-04	9.91E-04	2.17E-06	2.97E-05	1.36E-04	3.23E-07	1.82E-05	6.23E-05	7.49E-08
3744	421235.1	3734822	2.25E-04	1.03E-03	2.25E-06	3.08E-05	1.41E-04	3.35E-07	1.89E-05	6.47E-05	7.78E-08
3745	421231.2	3734831	2.27E-04	1.04E-03	2.27E-06	3.11E-05	1.42E-04	3.38E-07	1.91E-05	6.53E-05	7.85E-08
3746	421227.3	3734841	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.59E-05	7.92E-08
3747	421223.3	3734850	2.31E-04	1.06E-03	2.31E-06	3.16E-05	1.44E-04	3.44E-07	1.94E-05	6.63E-05	7.98E-08
3748	421219.4	3734859	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
3749	421215.5	3734868	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.03E-08
3750	421211.6	3734877	2.32E-04	1.06E-03	2.32E-06	3.19E-05	1.45E-04	3.46E-07	1.95E-05	6.68E-05	8.03E-08
3751	421207.7	3734886	2.33E-04	1.06E-03	2.32E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
3752	421203.8	3734895	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.69E-05	8.04E-08
3753	421199.8	3734904	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
3754	421195.9	3734913	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.03E-08
3755	421192	3734922	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
3756	421188.1	3734931	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
3757	421184.2	3734940	2.30E-04	1.05E-03	2.30E-06	3.16E-05	1.44E-04	3.43E-07	1.94E-05	6.62E-05	7.96E-08
3758	421180.3	3734949	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.60E-05	7.94E-08
3759	421176.4	3734958	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.92E-05	6.57E-05	7.91E-08
3760	421172.4	3734967	2.28E-04	1.04E-03	2.27E-06	3.12E-05	1.42E-04	3.39E-07	1.91E-05	6.54E-05	7.87E-08
3761	421159.4	3734980	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.44E-04	3.44E-07	1.94E-05	6.64E-05	7.99E-08
3762	421150.4	3734984	2.35E-04	1.08E-03	2.35E-06	3.23E-05	1.47E-04	3.50E-07	1.98E-05	6.76E-05	8.13E-08
3763	421141.3	3734987	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.87E-05	8.27E-08
3764	421132.2	3734991	2.43E-04	1.11E-03	2.43E-06	3.33E-05	1.52E-04	3.61E-07	2.04E-05	6.97E-05	8.39E-08
3765	421123.1	3734995	2.46E-04	1.12E-03	2.46E-06	3.37E-05	1.54E-04	3.66E-07	2.07E-05	7.06E-05	8.50E-08
3766	421086.8	3735010	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.28E-05	8.75E-08
3767	421077.7	3735014	2.54E-04	1.16E-03	2.54E-06	3.48E-05	1.59E-04	3.78E-07	2.13E-05	7.29E-05	8.76E-08
3768	421068.6	3735018	2.53E-04	1.16E-03	2.53E-06	3.47E-05	1.58E-04	3.77E-07	2.13E-05	7.28E-05	8.75E-08
3769	421059.6	3735022	2.52E-04	1.15E-03	2.52E-06	3.45E-05	1.58E-04	3.75E-07	2.12E-05	7.24E-05	8.71E-08
3770	421014.2	3735041	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.29E-08
3771	421005.1	3735045	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.47E-04	3.51E-07	1.98E-05	6.77E-05	8.15E-08
3772	420996	3735048	2.31E-04	1.06E-03	2.31E-06	3.16E-05	1.44E-04	3.44E-07	1.94E-05	6.63E-05	7.98E-08

3773	420986.9	3735052	2.25E-04	1.03E-03	2.25E-06	3.09E-05	1.41E-04	3.35E-07	1.90E-05	6.47E-05	7.79E-08
3774	420977.9	3735056	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.30E-05	7.57E-08
3775	420968.8	3735060	2.12E-04	9.71E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.79E-05	6.10E-05	7.34E-08
3776	420959.7	3735064	2.05E-04	9.39E-04	2.05E-06	2.81E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.09E-08
3777	420950.6	3735067	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.69E-05	6.85E-08
3778	420941.5	3735071	1.91E-04	8.72E-04	1.91E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.48E-05	6.59E-08
3779	420932.5	3735075	1.83E-04	8.36E-04	1.83E-06	2.51E-05	1.14E-04	2.72E-07	1.54E-05	5.26E-05	6.32E-08
3780	420923.4	3735079	1.75E-04	7.99E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.02E-05	6.04E-08
3781	420914.3	3735083	1.66E-04	7.61E-04	1.66E-06	2.28E-05	1.04E-04	2.48E-07	1.40E-05	4.78E-05	5.75E-08
3782	420905.2	3735086	1.58E-04	7.22E-04	1.58E-06	2.17E-05	9.88E-05	2.35E-07	1.33E-05	4.54E-05	5.46E-08
3783	420896.1	3735090	1.50E-04	6.84E-04	1.50E-06	2.05E-05	9.35E-05	2.23E-07	1.26E-05	4.30E-05	5.17E-08
3784	420887.1	3735094	1.41E-04	6.47E-04	1.41E-06	1.94E-05	8.84E-05	2.11E-07	1.19E-05	4.06E-05	4.89E-08
3785	420878	3735098	1.33E-04	6.09E-04	1.33E-06	1.83E-05	8.33E-05	1.98E-07	1.12E-05	3.83E-05	4.60E-08
3786	420868.9	3735102	1.25E-04	5.72E-04	1.25E-06	1.71E-05	7.82E-05	1.86E-07	1.05E-05	3.59E-05	4.32E-08
3787	420859.8	3735105	1.17E-04	5.34E-04	1.17E-06	1.60E-05	7.31E-05	1.74E-07	9.83E-06	3.36E-05	4.04E-08
3788	420850.7	3735109	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.82E-05	1.62E-07	9.18E-06	3.13E-05	3.77E-08
3789	420841.7	3735113	1.02E-04	4.65E-04	1.02E-06	1.39E-05	6.36E-05	1.51E-07	8.55E-06	2.92E-05	3.51E-08
3790	420832.6	3735117	9.49E-05	4.34E-04	9.48E-07	1.30E-05	5.93E-05	1.41E-07	7.98E-06	2.73E-05	3.28E-08
3791	420823.5	3735121	8.85E-05	4.04E-04	8.84E-07	1.21E-05	5.53E-05	1.32E-07	7.44E-06	2.54E-05	3.06E-08
3792	421369	3734607	9.15E-05	4.18E-04	9.15E-07	1.25E-05	5.72E-05	1.36E-07	7.70E-06	2.63E-05	3.16E-08
3793	421365.1	3734616	9.60E-05	4.39E-04	9.60E-07	1.32E-05	6.00E-05	1.43E-07	8.08E-06	2.76E-05	3.32E-08
3794	421361.2	3734625	1.01E-04	4.61E-04	1.01E-06	1.38E-05	6.30E-05	1.50E-07	8.48E-06	2.90E-05	3.48E-08
3795	421357.3	3734634	1.06E-04	4.83E-04	1.06E-06	1.45E-05	6.60E-05	1.57E-07	8.88E-06	3.03E-05	3.65E-08
3796	421353.4	3734643	1.10E-04	5.05E-04	1.10E-06	1.51E-05	6.91E-05	1.64E-07	9.29E-06	3.17E-05	3.82E-08
3797	421349.5	3734652	1.15E-04	5.27E-04	1.15E-06	1.58E-05	7.21E-05	1.72E-07	9.70E-06	3.31E-05	3.98E-08
3798	421345.5	3734661	1.20E-04	5.50E-04	1.20E-06	1.65E-05	7.52E-05	1.79E-07	1.01E-05	3.45E-05	4.15E-08
3799	421341.6	3734670	1.25E-04	5.73E-04	1.25E-06	1.72E-05	7.83E-05	1.86E-07	1.05E-05	3.60E-05	4.33E-08
3800	421337.7	3734679	1.30E-04	5.97E-04	1.30E-06	1.79E-05	8.16E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
3801	421333.8	3734688	1.36E-04	6.20E-04	1.36E-06	1.86E-05	8.48E-05	2.02E-07	1.14E-05	3.90E-05	4.69E-08
3802	421329.9	3734697	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.80E-05	2.10E-07	1.18E-05	4.04E-05	4.86E-08
3803	421325.9	3734706	1.45E-04	6.65E-04	1.45E-06	1.99E-05	9.10E-05	2.17E-07	1.22E-05	4.18E-05	5.03E-08
3804	421322	3734715	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
3805	421318.1	3734724	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.66E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
3806	421314.2	3734733	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.93E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
3807	421310.3	3734742	1.63E-04	7.45E-04	1.63E-06	2.23E-05	1.02E-04	2.43E-07	1.37E-05	4.68E-05	5.63E-08
3808	421306.4	3734751	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
3809	421302.4	3734760	1.71E-04	7.80E-04	1.70E-06	2.34E-05	1.07E-04	2.54E-07	1.43E-05	4.90E-05	5.89E-08
3810	421275	3734824	1.94E-04	8.86E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.57E-05	6.70E-08
3811	421271.1	3734833	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
3812	421267.2	3734842	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.84E-08
3813	421263.2	3734851	1.99E-04	9.12E-04	1.99E-06	2.73E-05	1.25E-04	2.97E-07	1.68E-05	5.73E-05	6.89E-08
3814	421259.3	3734860	2.01E-04	9.18E-04	2.01E-06	2.75E-05	1.26E-04	2.99E-07	1.69E-05	5.77E-05	6.94E-08
3815	421255.4	3734869	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
3816	421251.5	3734878	2.03E-04	9.28E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
3817	421247.6	3734887	2.04E-04	9.31E-04	2.04E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.85E-05	7.04E-08
3818	421243.7	3734896	2.04E-04	9.34E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.87E-05	7.06E-08
3819	421239.7	3734905	2.04E-04	9.35E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.88E-05	7.07E-08
3820	421235.8	3734914	2.05E-04	9.36E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.88E-05	7.07E-08
3821	421231.9	3734923	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3822	421228	3734932	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3823	421224.1	3734941	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3824	421220.1	3734950	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.73E-05	5.89E-05	7.09E-08
3825	421216.2	3734959	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
3826	421212.3	3734968	2.05E-04	9.36E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.88E-05	7.07E-08
3827	421208.4	3734977	2.04E-04	9.34E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.87E-05	7.06E-08
3828	421204.5	3734986	2.04E-04	9.31E-04	2.04E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.85E-05	7.04E-08
3829	421200.6	3734995	2.03E-04	9.27E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
3830	421187.5	3735008	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
3831	421178.5	3735012	2.09E-04	9.54E-04	2.09E-06	2.86E-05	1.31E-04	3.11E-07	1.76E-05	6.00E-05	7.21E-08

3832	421169.4	3735016	2.12E-04	9.69E-04	2.12E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.09E-05	7.32E-08
3833	421160.3	3735020	2.15E-04	9.83E-04	2.15E-06	2.95E-05	1.34E-04	3.20E-07	1.81E-05	6.18E-05	7.43E-08
3834	421151.2	3735024	2.18E-04	9.95E-04	2.18E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.52E-08
3835	421142.1	3735027	2.20E-04	1.01E-03	2.20E-06	3.02E-05	1.38E-04	3.28E-07	1.85E-05	6.33E-05	7.61E-08
3836	421133	3735031	2.22E-04	1.02E-03	2.22E-06	3.04E-05	1.39E-04	3.31E-07	1.87E-05	6.38E-05	7.67E-08
3837	421124	3735035	2.23E-04	1.02E-03	2.23E-06	3.06E-05	1.40E-04	3.33E-07	1.88E-05	6.42E-05	7.72E-08
3838	421087.6	3735050	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.73E-08
3839	421078.5	3735054	2.23E-04	1.02E-03	2.23E-06	3.05E-05	1.39E-04	3.32E-07	1.87E-05	6.40E-05	7.70E-08
3840	421069.4	3735058	2.21E-04	1.01E-03	2.21E-06	3.04E-05	1.38E-04	3.30E-07	1.86E-05	6.36E-05	7.65E-08
3841	421060.4	3735062	2.20E-04	1.01E-03	2.20E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.32E-05	7.60E-08
3842	421051.3	3735065	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
3843	421042.2	3735069	2.16E-04	9.86E-04	2.16E-06	2.96E-05	1.35E-04	3.21E-07	1.81E-05	6.20E-05	7.45E-08
3844	421033.1	3735073	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
3845	421024	3735077	2.10E-04	9.59E-04	2.10E-06	2.87E-05	1.31E-04	3.12E-07	1.76E-05	6.03E-05	7.25E-08
3846	421014.9	3735081	2.06E-04	9.41E-04	2.06E-06	2.82E-05	1.29E-04	3.06E-07	1.73E-05	5.91E-05	7.11E-08
3847	421005.8	3735084	2.01E-04	9.20E-04	2.01E-06	2.76E-05	1.26E-04	2.99E-07	1.69E-05	5.78E-05	6.95E-08
3848	420996.8	3735088	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
3849	420987.7	3735092	1.91E-04	8.72E-04	1.91E-06	2.61E-05	1.19E-04	2.84E-07	1.60E-05	5.48E-05	6.59E-08
3850	420978.6	3735096	1.85E-04	8.45E-04	1.85E-06	2.53E-05	1.16E-04	2.75E-07	1.56E-05	5.31E-05	6.39E-08
3851	420969.5	3735100	1.79E-04	8.17E-04	1.79E-06	2.45E-05	1.12E-04	2.66E-07	1.50E-05	5.13E-05	6.17E-08
3852	420960.4	3735103	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.95E-05	5.95E-08
3853	420951.3	3735107	1.66E-04	7.58E-04	1.66E-06	2.27E-05	1.04E-04	2.47E-07	1.39E-05	4.76E-05	5.73E-08
3854	420942.2	3735111	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
3855	420933.2	3735115	1.52E-04	6.97E-04	1.52E-06	2.09E-05	9.53E-05	2.27E-07	1.28E-05	4.38E-05	5.27E-08
3856	420924.1	3735119	1.45E-04	6.65E-04	1.45E-06	1.99E-05	9.09E-05	2.16E-07	1.22E-05	4.18E-05	5.02E-08
3857	420915	3735123	1.38E-04	6.32E-04	1.38E-06	1.89E-05	8.64E-05	2.06E-07	1.16E-05	3.97E-05	4.78E-08
3858	420905.9	3735126	1.31E-04	5.99E-04	1.31E-06	1.80E-05	8.20E-05	1.95E-07	1.10E-05	3.77E-05	4.53E-08
3859	420896.8	3735130	1.24E-04	5.67E-04	1.24E-06	1.70E-05	7.75E-05	1.85E-07	1.04E-05	3.56E-05	4.28E-08
3860	420887.7	3735134	1.17E-04	5.33E-04	1.17E-06	1.60E-05	7.29E-05	1.74E-07	9.81E-06	3.35E-05	4.03E-08
3861	420878.7	3735138	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.15E-05	3.78E-08
3862	420869.6	3735142	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.41E-05	1.53E-07	8.62E-06	2.94E-05	3.54E-08
3863	420860.5	3735145	9.59E-05	4.38E-04	9.58E-07	1.31E-05	5.99E-05	1.43E-07	8.06E-06	2.75E-05	3.31E-08
3864	420851.4	3735149	8.95E-05	4.09E-04	8.94E-07	1.23E-05	5.59E-05	1.33E-07	7.53E-06	2.57E-05	3.09E-08
3865	420842.3	3735153	8.35E-05	3.82E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
3866	420787.8	3735176	5.56E-05	2.54E-04	5.56E-07	7.62E-06	3.48E-05	8.28E-08	4.68E-06	1.60E-05	1.92E-08
3867	420778.7	3735180	5.21E-05	2.38E-04	5.21E-07	7.14E-06	3.26E-05	7.76E-08	4.38E-06	1.50E-05	1.80E-08
3868	420769.6	3735183	4.86E-05	2.22E-04	4.86E-07	6.67E-06	3.04E-05	7.24E-08	4.09E-06	1.40E-05	1.68E-08
3869	420760.5	3735187	4.55E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.77E-08	3.82E-06	1.31E-05	1.57E-08
3870	420751.5	3735191	4.26E-05	1.95E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
3871	421393.1	3734533	6.39E-05	2.92E-04	6.39E-07	8.76E-06	4.00E-05	9.52E-08	5.38E-06	1.84E-05	2.21E-08
3872	421393.4	3734523	6.15E-05	2.81E-04	6.14E-07	8.42E-06	3.84E-05	9.15E-08	5.17E-06	1.77E-05	2.12E-08
3873	421424.7	3734572	6.58E-05	3.01E-04	6.57E-07	9.02E-06	4.11E-05	9.79E-08	5.53E-06	1.89E-05	2.27E-08
3874	421420.8	3734581	6.88E-05	3.15E-04	6.88E-07	9.43E-06	4.30E-05	1.02E-07	5.79E-06	1.98E-05	2.38E-08
3875	421416.9	3734590	7.21E-05	3.30E-04	7.21E-07	9.88E-06	4.51E-05	1.07E-07	6.07E-06	2.07E-05	2.49E-08
3876	421412.9	3734599	7.55E-05	3.45E-04	7.55E-07	1.04E-05	4.72E-05	1.12E-07	6.36E-06	2.17E-05	2.61E-08
3877	421409	3734608	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.65E-06	2.27E-05	2.73E-08
3878	421405.1	3734617	8.27E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.96E-06	2.38E-05	2.86E-08
3879	421401.2	3734626	8.64E-05	3.95E-04	8.64E-07	1.18E-05	5.40E-05	1.29E-07	7.27E-06	2.48E-05	2.99E-08
3880	421397.3	3734635	9.03E-05	4.13E-04	9.03E-07	1.24E-05	5.65E-05	1.34E-07	7.60E-06	2.60E-05	3.12E-08
3881	421393.3	3734644	9.43E-05	4.31E-04	9.42E-07	1.29E-05	5.89E-05	1.40E-07	7.93E-06	2.71E-05	3.26E-08
3882	421365.9	3734707	1.23E-04	5.64E-04	1.23E-06	1.69E-05	7.71E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
3883	421362	3734716	1.27E-04	5.82E-04	1.27E-06	1.74E-05	7.96E-05	1.89E-07	1.07E-05	3.66E-05	4.40E-08
3884	421358.1	3734725	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.20E-05	1.95E-07	1.10E-05	3.77E-05	4.53E-08
3885	421354.1	3734735	1.35E-04	6.18E-04	1.35E-06	1.85E-05	8.45E-05	2.01E-07	1.14E-05	3.88E-05	4.67E-08
3886	421350.2	3734744	1.39E-04	6.35E-04	1.39E-06	1.90E-05	8.69E-05	2.07E-07	1.17E-05	3.99E-05	4.80E-08
3887	421346.3	3734753	1.43E-04	6.52E-04	1.43E-06	1.95E-05	8.92E-05	2.12E-07	1.20E-05	4.10E-05	4.93E-08
3888	421342.4	3734762	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.05E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
3889	421338.4	3734771	1.48E-04	6.79E-04	1.48E-06	2.03E-05	9.28E-05	2.21E-07	1.25E-05	4.27E-05	5.13E-08
3890	421334.5	3734780	1.52E-04	6.95E-04	1.52E-06	2.08E-05	9.51E-05	2.26E-07	1.28E-05	4.37E-05	5.25E-08

3891	421330.6	3734789	1.56E-04	7.11E-04	1.55E-06	2.13E-05	9.73E-05	2.32E-07	1.31E-05	4.47E-05	5.38E-08
3892	421326.7	3734798	1.59E-04	7.26E-04	1.59E-06	2.18E-05	9.92E-05	2.36E-07	1.34E-05	4.56E-05	5.49E-08
3893	421314.9	3734825	1.67E-04	7.64E-04	1.67E-06	2.29E-05	1.04E-04	2.49E-07	1.41E-05	4.80E-05	5.77E-08
3894	421311	3734834	1.70E-04	7.76E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.87E-05	5.86E-08
3895	421307.1	3734843	1.72E-04	7.86E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
3896	421303.2	3734852	1.74E-04	7.95E-04	1.74E-06	2.38E-05	1.09E-04	2.59E-07	1.46E-05	5.00E-05	6.01E-08
3897	421299.2	3734861	1.76E-04	8.03E-04	1.75E-06	2.41E-05	1.10E-04	2.61E-07	1.48E-05	5.04E-05	6.07E-08
3898	421295.3	3734870	1.77E-04	8.08E-04	1.77E-06	2.42E-05	1.11E-04	2.63E-07	1.49E-05	5.08E-05	6.11E-08
3899	421291.4	3734879	1.78E-04	8.12E-04	1.78E-06	2.44E-05	1.11E-04	2.64E-07	1.49E-05	5.10E-05	6.14E-08
3900	421287.5	3734888	1.79E-04	8.19E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.15E-05	6.19E-08
3901	421283.6	3734897	1.80E-04	8.25E-04	1.80E-06	2.47E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
3902	421279.6	3734906	1.81E-04	8.30E-04	1.81E-06	2.49E-05	1.13E-04	2.70E-07	1.53E-05	5.21E-05	6.27E-08
3903	421275.7	3734915	1.82E-04	8.34E-04	1.82E-06	2.50E-05	1.14E-04	2.72E-07	1.53E-05	5.24E-05	6.30E-08
3904	421271.8	3734924	1.83E-04	8.38E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.33E-08
3905	421267.9	3734933	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3906	421264	3734942	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
3907	421260	3734952	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.36E-08
3908	421256.1	3734961	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3909	421252.2	3734970	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.73E-07	1.54E-05	5.28E-05	6.35E-08
3910	421248.3	3734979	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3911	421244.3	3734988	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3912	421240.4	3734997	1.84E-04	8.40E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.28E-05	6.35E-08
3913	421236.5	3735006	1.83E-04	8.38E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.33E-08
3914	421232.6	3735015	1.83E-04	8.35E-04	1.83E-06	2.50E-05	1.14E-04	2.72E-07	1.54E-05	5.25E-05	6.31E-08
3915	421228.7	3735024	1.82E-04	8.32E-04	1.82E-06	2.49E-05	1.14E-04	2.71E-07	1.53E-05	5.23E-05	6.28E-08
3916	421215.7	3735037	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.74E-07	1.55E-05	5.30E-05	6.37E-08
3917	421206.6	3735041	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.57E-05	5.38E-05	6.47E-08
3918	421197.5	3735044	1.90E-04	8.68E-04	1.90E-06	2.60E-05	1.19E-04	2.83E-07	1.60E-05	5.45E-05	6.56E-08
3919	421188.4	3735048	1.92E-04	8.78E-04	1.92E-06	2.63E-05	1.20E-04	2.86E-07	1.62E-05	5.52E-05	6.64E-08
3920	421179.3	3735052	1.94E-04	8.88E-04	1.94E-06	2.66E-05	1.21E-04	2.89E-07	1.63E-05	5.58E-05	6.71E-08
3921	421170.2	3735056	1.96E-04	8.97E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.64E-05	6.78E-08
3922	421088.4	3735090	1.98E-04	9.06E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.85E-08
3923	421079.3	3735094	1.97E-04	8.99E-04	1.96E-06	2.69E-05	1.23E-04	2.93E-07	1.65E-05	5.65E-05	6.79E-08
3924	421070.2	3735098	1.95E-04	8.91E-04	1.95E-06	2.67E-05	1.22E-04	2.90E-07	1.64E-05	5.60E-05	6.73E-08
3925	421061.1	3735102	1.93E-04	8.81E-04	1.93E-06	2.64E-05	1.20E-04	2.87E-07	1.62E-05	5.54E-05	6.66E-08
3926	421052	3735105	1.90E-04	8.70E-04	1.90E-06	2.61E-05	1.19E-04	2.83E-07	1.60E-05	5.47E-05	6.58E-08
3927	421042.9	3735109	1.88E-04	8.57E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.58E-05	5.39E-05	6.48E-08
3928	421033.8	3735113	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.74E-07	1.55E-05	5.30E-05	6.37E-08
3929	421024.8	3735117	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.25E-08
3930	421015.7	3735121	1.77E-04	8.08E-04	1.77E-06	2.42E-05	1.10E-04	2.63E-07	1.49E-05	5.08E-05	6.11E-08
3931	421006.6	3735124	1.72E-04	7.86E-04	1.72E-06	2.36E-05	1.07E-04	2.56E-07	1.45E-05	4.94E-05	5.94E-08
3932	420997.5	3735128	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.79E-05	5.77E-08
3933	420988.4	3735132	1.62E-04	7.39E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.64E-05	5.58E-08
3934	420979.3	3735136	1.56E-04	7.14E-04	1.56E-06	2.14E-05	9.76E-05	2.32E-07	1.31E-05	4.49E-05	5.40E-08
3935	420970.2	3735140	1.51E-04	6.89E-04	1.51E-06	2.07E-05	9.42E-05	2.24E-07	1.27E-05	4.33E-05	5.21E-08
3936	420961.1	3735143	1.45E-04	6.64E-04	1.45E-06	1.99E-05	9.08E-05	2.16E-07	1.22E-05	4.17E-05	5.02E-08
3937	420952	3735147	1.40E-04	6.38E-04	1.39E-06	1.91E-05	8.72E-05	2.08E-07	1.17E-05	4.01E-05	4.82E-08
3938	420942.9	3735151	1.34E-04	6.11E-04	1.34E-06	1.83E-05	8.36E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
3939	420933.9	3735155	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
3940	420924.8	3735159	1.22E-04	5.56E-04	1.21E-06	1.67E-05	7.60E-05	1.81E-07	1.02E-05	3.49E-05	4.20E-08
3941	420915.7	3735162	1.15E-04	5.28E-04	1.15E-06	1.58E-05	7.22E-05	1.72E-07	9.71E-06	3.32E-05	3.99E-08
3942	420906.6	3735166	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.14E-05	3.78E-08
3943	420897.5	3735170	1.03E-04	4.73E-04	1.03E-06	1.42E-05	6.47E-05	1.54E-07	8.70E-06	2.97E-05	3.57E-08
3944	420888.4	3735174	9.72E-05	4.44E-04	9.71E-07	1.33E-05	6.07E-05	1.45E-07	8.17E-06	2.79E-05	3.36E-08
3945	420833.9	3735197	6.57E-05	3.00E-04	6.56E-07	9.00E-06	4.11E-05	9.78E-08	5.53E-06	1.89E-05	2.27E-08
3946	420824.8	3735201	6.14E-05	2.81E-04	6.14E-07	8.42E-06	3.84E-05	9.14E-08	5.17E-06	1.76E-05	2.12E-08
3947	420815.7	3735204	5.74E-05	2.62E-04	5.73E-07	7.86E-06	3.59E-05	8.54E-08	4.83E-06	1.65E-05	1.98E-08
3948	420806.6	3735208	5.36E-05	2.45E-04	5.36E-07	7.35E-06	3.35E-05	7.98E-08	4.51E-06	1.54E-05	1.85E-08
3949	420797.5	3735212	5.02E-05	2.29E-04	5.02E-07	6.88E-06	3.14E-05	7.47E-08	4.22E-06	1.44E-05	1.73E-08

3950	420788.4	3735216	4.70E-05	2.15E-04	4.70E-07	6.44E-06	2.94E-05	6.99E-08	3.95E-06	1.35E-05	1.62E-08
3951	420779.3	3735220	4.40E-05	2.01E-04	4.40E-07	6.03E-06	2.75E-05	6.55E-08	3.70E-06	1.26E-05	1.52E-08
3952	420770.2	3735223	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.48E-06	1.19E-05	1.43E-08
3953	420761.1	3735227	3.88E-05	1.77E-04	3.88E-07	5.32E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
3954	420752	3735231	3.64E-05	1.66E-04	3.64E-07	4.99E-06	2.28E-05	5.42E-08	3.06E-06	1.05E-05	1.26E-08
3955	421433.1	3734534	5.53E-05	2.53E-04	5.52E-07	7.58E-06	3.46E-05	8.23E-08	4.65E-06	1.59E-05	1.91E-08
3956	421433.3	3734524	5.29E-05	2.42E-04	5.29E-07	7.26E-06	3.31E-05	7.88E-08	4.45E-06	1.52E-05	1.83E-08
3957	420743.3	3734468	2.48E-02	1.13E-01	2.47E-04	3.39E-03	1.55E-02	3.69E-05	2.08E-03	7.12E-03	8.56E-06
3958	420743.3	3734459	2.09E-02	9.54E-02	2.08E-04	2.86E-03	1.30E-02	3.10E-05	1.75E-03	5.99E-03	7.21E-06
3959	420743.2	3734449	1.60E-02	7.32E-02	1.60E-04	2.19E-03	1.00E-02	2.38E-05	1.35E-03	4.60E-03	5.53E-06
3960	420743.1	3734440	1.10E-02	5.05E-02	1.10E-04	1.51E-03	6.90E-03	1.64E-05	9.29E-04	3.17E-03	3.82E-06
3961	420743.1	3734431	6.94E-03	3.17E-02	6.94E-05	9.52E-04	4.34E-03	1.03E-05	5.84E-04	2.00E-03	2.40E-06
3962	420743	3734421	4.38E-03	2.00E-02	4.38E-05	6.00E-04	2.74E-03	6.52E-06	3.69E-04	1.26E-03	1.51E-06
3963	420742.9	3734412	2.95E-03	1.35E-02	2.95E-05	4.04E-04	1.84E-03	4.39E-06	2.48E-04	8.47E-04	1.02E-06
3964	420742.9	3734403	2.11E-03	9.63E-03	2.11E-05	2.89E-04	1.32E-03	3.14E-06	1.77E-04	6.05E-04	7.28E-07
3965	420753.3	3734468	1.68E-02	7.70E-02	1.68E-04	2.31E-03	1.05E-02	2.51E-05	1.42E-03	4.84E-03	5.82E-06
3966	420753.3	3734458	1.40E-02	6.38E-02	1.39E-04	1.91E-03	8.72E-03	2.08E-05	1.17E-03	4.01E-03	4.82E-06
3967	420753.2	3734449	1.08E-02	4.92E-02	1.08E-04	1.48E-03	6.73E-03	1.60E-05	9.06E-04	3.09E-03	3.72E-06
3968	420753.1	3734440	7.72E-03	3.53E-02	7.71E-05	1.06E-03	4.83E-03	1.15E-05	6.49E-04	2.22E-03	2.67E-06
3969	420753.1	3734431	5.23E-03	2.39E-02	5.23E-05	7.17E-04	3.27E-03	7.79E-06	4.40E-04	1.50E-03	1.81E-06
3970	420753	3734421	3.55E-03	1.62E-02	3.55E-05	4.87E-04	2.22E-03	5.29E-06	2.99E-04	1.02E-03	1.23E-06
3971	420752.9	3734412	2.51E-03	1.15E-02	2.50E-05	3.43E-04	1.57E-03	3.73E-06	2.11E-04	7.20E-04	8.66E-07
3972	420752.9	3734403	1.85E-03	8.47E-03	1.85E-05	2.54E-04	1.16E-03	2.76E-06	1.56E-04	5.32E-04	6.40E-07
3973	420752.8	3734394	1.41E-03	6.46E-03	1.41E-05	1.94E-04	8.83E-04	2.10E-06	1.19E-04	4.06E-04	4.88E-07
3974	420763.1	3734440	5.68E-03	2.60E-02	5.68E-05	7.79E-04	3.55E-03	8.46E-06	4.78E-04	1.63E-03	1.96E-06
3975	420763.1	3734431	4.07E-03	1.86E-02	4.07E-05	5.58E-04	2.54E-03	6.06E-06	3.42E-04	1.17E-03	1.41E-06
3976	420763	3734421	2.91E-03	1.33E-02	2.91E-05	3.99E-04	1.82E-03	4.34E-06	2.45E-04	8.37E-04	1.01E-06
3977	420762.9	3734412	2.14E-03	9.77E-03	2.14E-05	2.93E-04	1.34E-03	3.18E-06	1.80E-04	6.14E-04	7.38E-07
3978	420762.9	3734403	1.62E-03	7.42E-03	1.62E-05	2.23E-04	1.02E-03	2.42E-06	1.37E-04	4.67E-04	5.61E-07
3979	420762.8	3734393	1.27E-03	5.81E-03	1.27E-05	1.74E-04	7.94E-04	1.89E-06	1.07E-04	3.65E-04	4.39E-07
3980	420772.8	3734393	1.14E-03	5.20E-03	1.14E-05	1.56E-04	7.11E-04	1.69E-06	9.57E-05	3.27E-04	3.93E-07
3981	420793.5	3734495	7.53E-03	3.44E-02	7.53E-05	1.03E-03	4.71E-03	1.12E-05	6.34E-04	2.16E-03	2.60E-06
3982	420793.5	3734486	6.71E-03	3.07E-02	6.70E-05	9.19E-04	4.19E-03	9.98E-06	5.64E-04	1.93E-03	2.32E-06
3983	420803.5	3734495	5.95E-03	2.72E-02	5.94E-05	8.15E-04	3.72E-03	8.85E-06	5.00E-04	1.71E-03	2.05E-06
3984	420803.5	3734486	5.27E-03	2.41E-02	5.27E-05	7.22E-04	3.29E-03	7.84E-06	4.43E-04	1.51E-03	1.82E-06
3985	420803.4	3734477	4.63E-03	2.12E-02	4.63E-05	6.35E-04	2.90E-03	6.89E-06	3.90E-04	1.33E-03	1.60E-06
3986	420803.3	3734467	3.97E-03	1.82E-02	3.97E-05	5.44E-04	2.48E-03	5.91E-06	3.34E-04	1.14E-03	1.37E-06
3987	420803.3	3734458	3.34E-03	1.53E-02	3.34E-05	4.57E-04	2.09E-03	4.97E-06	2.81E-04	9.59E-04	1.15E-06
3988	420803.2	3734449	2.76E-03	1.26E-02	2.75E-05	3.78E-04	1.72E-03	4.10E-06	2.32E-04	7.92E-04	9.52E-07
3989	420803.1	3734440	2.24E-03	1.02E-02	2.24E-05	3.07E-04	1.40E-03	3.34E-06	1.89E-04	6.44E-04	7.75E-07
3990	420803.1	3734430	1.81E-03	8.27E-03	1.81E-05	2.48E-04	1.13E-03	2.69E-06	1.52E-04	5.19E-04	6.25E-07
3991	420803	3734421	1.46E-03	6.66E-03	1.46E-05	2.00E-04	9.11E-04	2.17E-06	1.23E-04	4.19E-04	5.04E-07
3992	420802.9	3734412	1.19E-03	5.42E-03	1.18E-05	1.62E-04	7.41E-04	1.76E-06	9.97E-05	3.41E-04	4.10E-07
3993	420813.5	3734495	4.75E-03	2.17E-02	4.75E-05	6.51E-04	2.97E-03	7.07E-06	4.00E-04	1.36E-03	1.64E-06
3994	420813.5	3734486	4.22E-03	1.93E-02	4.21E-05	5.78E-04	2.64E-03	6.28E-06	3.55E-04	1.21E-03	1.46E-06
3995	420813.4	3734477	3.72E-03	1.70E-02	3.72E-05	5.10E-04	2.33E-03	5.54E-06	3.13E-04	1.07E-03	1.29E-06
3996	420813.3	3734467	3.21E-03	1.47E-02	3.21E-05	4.41E-04	2.01E-03	4.78E-06	2.70E-04	9.24E-04	1.11E-06
3997	420813.3	3734458	2.72E-03	1.24E-02	2.72E-05	3.73E-04	1.70E-03	4.05E-06	2.29E-04	7.82E-04	9.40E-07
3998	420813.2	3734449	2.27E-03	1.04E-02	2.27E-05	3.11E-04	1.42E-03	3.38E-06	1.91E-04	6.52E-04	7.85E-07
3999	420813.1	3734439	1.87E-03	8.57E-03	1.87E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
4000	420813.1	3734430	1.54E-03	7.03E-03	1.54E-05	2.11E-04	9.61E-04	2.29E-06	1.29E-04	4.42E-04	5.31E-07
4001	420813	3734421	1.26E-03	5.76E-03	1.26E-05	1.73E-04	7.88E-04	1.88E-06	1.06E-04	3.62E-04	4.35E-07
4002	420812.9	3734412	1.04E-03	4.76E-03	1.04E-05	1.43E-04	6.51E-04	1.55E-06	8.76E-05	2.99E-04	3.60E-07
4003	420812.9	3734402	8.70E-04	3.98E-03	8.70E-06	1.19E-04	5.44E-04	1.30E-06	7.32E-05	2.50E-04	3.01E-07
4004	420823.5	3734495	3.89E-03	1.78E-02	3.88E-05	5.33E-04	2.43E-03	5.78E-06	3.27E-04	1.12E-03	1.34E-06
4005	420823.5	3734486	3.45E-03	1.58E-02	3.45E-05	4.73E-04	2.16E-03	5.13E-06	2.90E-04	9.91E-04	1.19E-06
4006	420823.4	3734477	3.04E-03	1.39E-02	3.04E-05	4.16E-04	1.90E-03	4.52E-06	2.56E-04	8.73E-04	1.05E-06
4007	420823.3	3734467	2.64E-03	1.21E-02	2.64E-05	3.62E-04	1.65E-03	3.93E-06	2.22E-04	7.59E-04	9.12E-07
4008	420823.3	3734458	2.26E-03	1.03E-02	2.26E-05	3.09E-04	1.41E-03	3.36E-06	1.90E-04	6.49E-04	7.80E-07

4009	420823.2	3734449	1.90E-03	8.69E-03	1.90E-05	2.61E-04	1.19E-03	2.83E-06	1.60E-04	5.46E-04	6.57E-07
4010	420823.1	3734439	1.59E-03	7.27E-03	1.59E-05	2.18E-04	9.93E-04	2.37E-06	1.34E-04	4.57E-04	5.49E-07
4011	420823.1	3734430	1.32E-03	6.04E-03	1.32E-05	1.81E-04	8.26E-04	1.97E-06	1.11E-04	3.80E-04	4.57E-07
4012	420823	3734421	1.10E-03	5.03E-03	1.10E-05	1.51E-04	6.87E-04	1.64E-06	9.25E-05	3.16E-04	3.80E-07
4013	420822.9	3734412	9.20E-04	4.21E-03	9.19E-06	1.26E-04	5.75E-04	1.37E-06	7.74E-05	2.64E-04	3.18E-07
4014	420822.9	3734402	7.78E-04	3.56E-03	7.77E-06	1.07E-04	4.86E-04	1.16E-06	6.54E-05	2.23E-04	2.69E-07
4015	420833.5	3734495	3.22E-03	1.47E-02	3.22E-05	4.42E-04	2.01E-03	4.80E-06	2.71E-04	9.26E-04	1.11E-06
4016	420833.5	3734486	2.86E-03	1.31E-02	2.86E-05	3.92E-04	1.79E-03	4.26E-06	2.41E-04	8.22E-04	9.88E-07
4017	420833.4	3734476	2.52E-03	1.15E-02	2.52E-05	3.45E-04	1.57E-03	3.75E-06	2.12E-04	7.23E-04	8.70E-07
4018	420833.3	3734467	2.19E-03	1.00E-02	2.19E-05	3.00E-04	1.37E-03	3.26E-06	1.84E-04	6.29E-04	7.56E-07
4019	420833.3	3734458	1.89E-03	8.63E-03	1.89E-05	2.59E-04	1.18E-03	2.81E-06	1.59E-04	5.43E-04	6.53E-07
4020	420833.2	3734449	1.61E-03	7.38E-03	1.61E-05	2.21E-04	1.01E-03	2.40E-06	1.36E-04	4.64E-04	5.58E-07
4021	420833.1	3734439	1.36E-03	6.23E-03	1.36E-05	1.87E-04	8.53E-04	2.03E-06	1.15E-04	3.92E-04	4.71E-07
4022	420833.1	3734430	1.15E-03	5.25E-03	1.15E-05	1.57E-04	7.18E-04	1.71E-06	9.66E-05	3.30E-04	3.97E-07
4023	420833	3734421	9.66E-04	4.42E-03	9.66E-06	1.32E-04	6.04E-04	1.44E-06	8.13E-05	2.78E-04	3.34E-07
4024	420832.9	3734412	8.18E-04	3.74E-03	8.17E-06	1.12E-04	5.11E-04	1.22E-06	6.88E-05	2.35E-04	2.83E-07
4025	420893.5	3734495	1.31E-03	5.98E-03	1.31E-05	1.79E-04	8.18E-04	1.95E-06	1.10E-04	3.76E-04	4.52E-07
4026	420893.5	3734485	1.18E-03	5.41E-03	1.18E-05	1.62E-04	7.40E-04	1.76E-06	9.95E-05	3.40E-04	4.09E-07
4027	420893.4	3734476	1.06E-03	4.85E-03	1.06E-05	1.45E-04	6.63E-04	1.58E-06	8.92E-05	3.05E-04	3.67E-07
4028	420893.3	3734467	9.45E-04	4.32E-03	9.44E-06	1.29E-04	5.91E-04	1.41E-06	7.95E-05	2.71E-04	3.26E-07
4029	420893.1	3734439	6.49E-04	2.97E-03	6.49E-06	8.90E-05	4.06E-04	9.66E-07	5.46E-05	1.86E-04	2.24E-07
4030	420893.1	3734430	5.71E-04	2.61E-03	5.71E-06	7.83E-05	3.57E-04	8.50E-07	4.80E-05	1.64E-04	1.97E-07
4031	420893	3734420	5.04E-04	2.31E-03	5.04E-06	6.91E-05	3.15E-04	7.50E-07	4.24E-05	1.45E-04	1.74E-07
4032	420892.9	3734411	4.47E-04	2.04E-03	4.46E-06	6.12E-05	2.79E-04	6.65E-07	3.76E-05	1.28E-04	1.54E-07
4033	420892.9	3734402	3.98E-04	1.82E-03	3.98E-06	5.45E-05	2.49E-04	5.92E-07	3.35E-05	1.14E-04	1.37E-07
4034	420892.8	3734393	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
4035	420913.5	3734494	1.02E-03	4.67E-03	1.02E-05	1.40E-04	6.39E-04	1.52E-06	8.59E-05	2.94E-04	3.53E-07
4036	420913.5	3734485	9.28E-04	4.24E-03	9.28E-06	1.27E-04	5.80E-04	1.38E-06	7.81E-05	2.67E-04	3.21E-07
4037	420913.4	3734476	8.37E-04	3.83E-03	8.37E-06	1.15E-04	5.23E-04	1.25E-06	7.04E-05	2.41E-04	2.89E-07
4038	420913.3	3734467	7.51E-04	3.43E-03	7.51E-06	1.03E-04	4.70E-04	1.12E-06	6.32E-05	2.16E-04	2.60E-07
4039	420913.1	3734439	5.31E-04	2.43E-03	5.30E-06	7.27E-05	3.32E-04	7.90E-07	4.46E-05	1.52E-04	1.83E-07
4040	420913.1	3734430	4.72E-04	2.16E-03	4.71E-06	6.47E-05	2.95E-04	7.02E-07	3.97E-05	1.36E-04	1.63E-07
4041	420913	3734420	4.21E-04	1.92E-03	4.20E-06	5.77E-05	2.63E-04	6.26E-07	3.54E-05	1.21E-04	1.45E-07
4042	420912.9	3734411	3.76E-04	1.72E-03	3.76E-06	5.16E-05	2.35E-04	5.60E-07	3.17E-05	1.08E-04	1.30E-07
4043	420912.9	3734402	3.38E-04	1.54E-03	3.38E-06	4.63E-05	2.11E-04	5.03E-07	2.84E-05	9.71E-05	1.17E-07
4044	420912.8	3734392	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.76E-05	1.05E-07
4045	420933.5	3734494	8.15E-04	3.73E-03	8.14E-06	1.12E-04	5.09E-04	1.21E-06	6.86E-05	2.34E-04	2.82E-07
4046	420933.5	3734485	7.43E-04	3.40E-03	7.43E-06	1.02E-04	4.65E-04	1.11E-06	6.25E-05	2.14E-04	2.57E-07
4047	420933.4	3734476	6.74E-04	3.08E-03	6.74E-06	9.24E-05	4.21E-04	1.00E-06	5.67E-05	1.94E-04	2.33E-07
4048	420933.3	3734466	6.08E-04	2.78E-03	6.08E-06	8.34E-05	3.80E-04	9.06E-07	5.12E-05	1.75E-04	2.10E-07
4049	420933.1	3734439	4.41E-04	2.01E-03	4.40E-06	6.04E-05	2.75E-04	6.56E-07	3.71E-05	1.27E-04	1.52E-07
4050	420933.1	3734429	3.95E-04	1.81E-03	3.95E-06	5.42E-05	2.47E-04	5.88E-07	3.32E-05	1.14E-04	1.37E-07
4051	420933	3734420	3.55E-04	1.62E-03	3.55E-06	4.87E-05	2.22E-04	5.29E-07	2.99E-05	1.02E-04	1.23E-07
4052	420932.9	3734411	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
4053	420932.9	3734402	2.90E-04	1.32E-03	2.90E-06	3.97E-05	1.81E-04	4.31E-07	2.44E-05	8.32E-05	1.00E-07
4054	420932.8	3734392	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.21E-05	7.56E-05	9.10E-08
4055	420953.5	3734494	6.63E-04	3.03E-03	6.62E-06	9.08E-05	4.14E-04	9.86E-07	5.57E-05	1.90E-04	2.29E-07
4056	420953.5	3734485	6.07E-04	2.77E-03	6.06E-06	8.32E-05	3.79E-04	9.03E-07	5.10E-05	1.74E-04	2.10E-07
4057	420953.4	3734476	5.53E-04	2.53E-03	5.53E-06	7.58E-05	3.46E-04	8.23E-07	4.65E-05	1.59E-04	1.91E-07
4058	420953.3	3734466	5.02E-04	2.30E-03	5.02E-06	6.88E-05	3.14E-04	7.48E-07	4.22E-05	1.44E-04	1.74E-07
4059	420953.1	3734438	3.71E-04	1.70E-03	3.71E-06	5.09E-05	2.32E-04	5.52E-07	3.12E-05	1.07E-04	1.28E-07
4060	420953.1	3734429	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
4061	420953	3734420	3.03E-04	1.39E-03	3.03E-06	4.16E-05	1.90E-04	4.51E-07	2.55E-05	8.71E-05	1.05E-07
4062	420952.9	3734411	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.09E-07	2.31E-05	7.90E-05	9.50E-08
4063	420952.9	3734401	2.50E-04	1.14E-03	2.50E-06	3.43E-05	1.56E-04	3.72E-07	2.11E-05	7.19E-05	8.65E-08
4064	420952.8	3734392	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.92E-05	6.57E-05	7.91E-08
4065	420973.5	3734494	5.47E-04	2.50E-03	5.47E-06	7.50E-05	3.42E-04	8.14E-07	4.60E-05	1.57E-04	1.89E-07
4066	420973.5	3734485	5.03E-04	2.30E-03	5.03E-06	6.89E-05	3.14E-04	7.49E-07	4.23E-05	1.45E-04	1.74E-07
4067	420973.4	3734475	4.61E-04	2.11E-03	4.60E-06	6.31E-05	2.88E-04	6.86E-07	3.87E-05	1.32E-04	1.59E-07

4068	420973.3	3734466	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.26E-07	3.54E-05	1.21E-04	1.45E-07
4069	420973.1	3734438	3.16E-04	1.45E-03	3.16E-06	4.34E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
4070	420973.1	3734429	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4071	420973	3734420	2.62E-04	1.20E-03	2.61E-06	3.59E-05	1.64E-04	3.89E-07	2.20E-05	7.52E-05	9.04E-08
4072	420972.9	3734411	2.39E-04	1.09E-03	2.38E-06	3.27E-05	1.49E-04	3.55E-07	2.01E-05	6.86E-05	8.24E-08
4073	420972.9	3734401	2.18E-04	9.98E-04	2.18E-06	2.99E-05	1.36E-04	3.25E-07	1.84E-05	6.27E-05	7.54E-08
4074	420972.8	3734392	2.01E-04	9.17E-04	2.00E-06	2.75E-05	1.25E-04	2.99E-07	1.69E-05	5.76E-05	6.93E-08
4075	420993.6	3734503	4.94E-04	2.26E-03	4.94E-06	6.78E-05	3.09E-04	7.36E-07	4.16E-05	1.42E-04	1.71E-07
4076	420993.5	3734494	4.58E-04	2.09E-03	4.58E-06	6.28E-05	2.86E-04	6.82E-07	3.85E-05	1.32E-04	1.58E-07
4077	420993.5	3734485	4.22E-04	1.93E-03	4.22E-06	5.79E-05	2.64E-04	6.29E-07	3.55E-05	1.21E-04	1.46E-07
4078	420993.4	3734475	3.88E-04	1.78E-03	3.88E-06	5.33E-05	2.43E-04	5.78E-07	3.27E-05	1.12E-04	1.34E-07
4079	420993.3	3734466	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	3.00E-05	1.02E-04	1.23E-07
4080	421013.6	3734503	4.14E-04	1.89E-03	4.14E-06	5.68E-05	2.59E-04	6.17E-07	3.49E-05	1.19E-04	1.43E-07
4081	421013.5	3734494	3.85E-04	1.76E-03	3.85E-06	5.28E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
4082	421013.5	3734484	3.58E-04	1.64E-03	3.58E-06	4.90E-05	2.24E-04	5.32E-07	3.01E-05	1.03E-04	1.24E-07
4083	421013.4	3734475	3.31E-04	1.51E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.14E-07
4084	421013.3	3734466	3.05E-04	1.39E-03	3.05E-06	4.18E-05	1.91E-04	4.54E-07	2.57E-05	8.77E-05	1.05E-07
4085	421013.2	3734447	2.58E-04	1.18E-03	2.58E-06	3.53E-05	1.61E-04	3.84E-07	2.17E-05	7.40E-05	8.90E-08
4086	421013.1	3734438	2.37E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.80E-05	8.17E-08
4087	421013.1	3734429	2.17E-04	9.93E-04	2.17E-06	2.98E-05	1.36E-04	3.23E-07	1.83E-05	6.24E-05	7.51E-08
4088	421013	3734420	2.00E-04	9.13E-04	2.00E-06	2.74E-05	1.25E-04	2.97E-07	1.68E-05	5.74E-05	6.90E-08
4089	421012.9	3734410	1.84E-04	8.41E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
4090	421012.9	3734401	1.70E-04	7.76E-04	1.70E-06	2.33E-05	1.06E-04	2.53E-07	1.43E-05	4.88E-05	5.87E-08
4091	421012.8	3734392	1.57E-04	7.19E-04	1.57E-06	2.16E-05	9.83E-05	2.34E-07	1.32E-05	4.52E-05	5.43E-08
4092	421033.6	3734503	3.52E-04	1.61E-03	3.51E-06	4.82E-05	2.20E-04	5.23E-07	2.96E-05	1.01E-04	1.22E-07
4093	421033.5	3734494	3.28E-04	1.50E-03	3.28E-06	4.50E-05	2.05E-04	4.88E-07	2.76E-05	9.43E-05	1.13E-07
4094	421033.5	3734484	3.05E-04	1.40E-03	3.05E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.78E-05	1.06E-07
4095	421033.4	3734475	2.84E-04	1.30E-03	2.84E-06	3.89E-05	1.77E-04	4.23E-07	2.39E-05	8.16E-05	9.81E-08
4096	421033.3	3734466	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.10E-08
4097	421033.2	3734447	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.74E-08
4098	421033.1	3734438	2.06E-04	9.41E-04	2.06E-06	2.82E-05	1.29E-04	3.06E-07	1.73E-05	5.91E-05	7.11E-08
4099	421033.1	3734429	1.89E-04	8.66E-04	1.89E-06	2.60E-05	1.18E-04	2.82E-07	1.59E-05	5.44E-05	6.54E-08
4100	421033	3734419	1.75E-04	8.00E-04	1.75E-06	2.40E-05	1.09E-04	2.60E-07	1.47E-05	5.03E-05	6.04E-08
4101	421032.9	3734410	1.62E-04	7.39E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.65E-05	5.59E-08
4102	421032.9	3734401	1.50E-04	6.85E-04	1.50E-06	2.05E-05	9.37E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
4103	421032.8	3734392	1.40E-04	6.42E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
4104	421073.6	3734503	2.64E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.57E-05	9.11E-08
4105	421073.5	3734493	2.47E-04	1.13E-03	2.47E-06	3.38E-05	1.54E-04	3.67E-07	2.08E-05	7.09E-05	8.53E-08
4106	421073.5	3734484	2.30E-04	1.05E-03	2.30E-06	3.15E-05	1.44E-04	3.42E-07	1.93E-05	6.61E-05	7.94E-08
4107	421073.4	3734475	2.13E-04	9.76E-04	2.13E-06	2.93E-05	1.33E-04	3.18E-07	1.80E-05	6.13E-05	7.37E-08
4108	421073.3	3734465	1.98E-04	9.04E-04	1.98E-06	2.71E-05	1.24E-04	2.94E-07	1.66E-05	5.68E-05	6.83E-08
4109	421153.6	3734502	1.61E-04	7.38E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.64E-05	5.58E-08
4110	421153.5	3734493	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.55E-05	2.27E-07	1.29E-05	4.39E-05	5.28E-08
4111	421153.5	3734483	1.43E-04	6.55E-04	1.43E-06	1.96E-05	8.96E-05	2.13E-07	1.21E-05	4.12E-05	4.95E-08
4112	421153.4	3734474	1.34E-04	6.12E-04	1.34E-06	1.84E-05	8.37E-05	1.99E-07	1.13E-05	3.85E-05	4.63E-08
4113	421153.3	3734465	1.25E-04	5.72E-04	1.25E-06	1.72E-05	7.82E-05	1.86E-07	1.05E-05	3.60E-05	4.32E-08
4114	421153.2	3734446	1.11E-04	5.05E-04	1.10E-06	1.52E-05	6.91E-05	1.65E-07	9.30E-06	3.18E-05	3.82E-08
4115	421153.1	3734437	1.04E-04	4.76E-04	1.04E-06	1.43E-05	6.51E-05	1.55E-07	8.76E-06	2.99E-05	3.60E-08
4116	421153.1	3734428	9.83E-05	4.50E-04	9.83E-07	1.35E-05	6.15E-05	1.46E-07	8.27E-06	2.83E-05	3.40E-08
4117	421153	3734419	9.34E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.68E-05	3.23E-08
4118	421152.9	3734409	8.84E-05	4.04E-04	8.84E-07	1.21E-05	5.53E-05	1.32E-07	7.44E-06	2.54E-05	3.06E-08
4119	421152.9	3734400	8.34E-05	3.81E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
4120	421152.8	3734391	7.87E-05	3.60E-04	7.87E-07	1.08E-05	4.92E-05	1.17E-07	6.62E-06	2.26E-05	2.72E-08
4121	421193.6	3734502	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.74E-05	4.50E-08
4122	421193.5	3734492	1.24E-04	5.66E-04	1.24E-06	1.70E-05	7.74E-05	1.84E-07	1.04E-05	3.56E-05	4.28E-08
4123	421193.4	3734483	1.17E-04	5.36E-04	1.17E-06	1.61E-05	7.33E-05	1.74E-07	9.86E-06	3.37E-05	4.05E-08
4124	421193.4	3734474	1.11E-04	5.07E-04	1.11E-06	1.52E-05	6.93E-05	1.65E-07	9.33E-06	3.18E-05	3.83E-08
4125	421193.3	3734465	1.05E-04	4.79E-04	1.05E-06	1.44E-05	6.55E-05	1.56E-07	8.81E-06	3.01E-05	3.62E-08
4126	421193.2	3734446	9.35E-05	4.27E-04	9.34E-07	1.28E-05	5.84E-05	1.39E-07	7.86E-06	2.69E-05	3.23E-08

4127	421193.1	3734437	8.83E-05	4.04E-04	8.83E-07	1.21E-05	5.52E-05	1.31E-07	7.43E-06	2.54E-05	3.05E-08
4128	421193	3734427	8.35E-05	3.82E-04	8.34E-07	1.14E-05	5.22E-05	1.24E-07	7.02E-06	2.40E-05	2.88E-08
4129	421193	3734418	7.89E-05	3.61E-04	7.88E-07	1.08E-05	4.93E-05	1.17E-07	6.64E-06	2.27E-05	2.73E-08
4130	421192.9	3734409	7.46E-05	3.41E-04	7.46E-07	1.02E-05	4.66E-05	1.11E-07	6.28E-06	2.14E-05	2.58E-08
4131	421192.8	3734400	7.06E-05	3.23E-04	7.06E-07	9.68E-06	4.42E-05	1.05E-07	5.94E-06	2.03E-05	2.44E-08
4132	421192.8	3734390	6.69E-05	3.06E-04	6.69E-07	9.17E-06	4.18E-05	9.96E-08	5.63E-06	1.92E-05	2.31E-08
4133	421233.6	3734501	1.07E-04	4.91E-04	1.07E-06	1.47E-05	6.71E-05	1.60E-07	9.03E-06	3.09E-05	3.71E-08
4134	421233.5	3734492	1.02E-04	4.67E-04	1.02E-06	1.40E-05	6.38E-05	1.52E-07	8.59E-06	2.93E-05	3.53E-08
4135	421233.4	3734483	9.70E-05	4.43E-04	9.69E-07	1.33E-05	6.06E-05	1.44E-07	8.16E-06	2.79E-05	3.35E-08
4136	421233.4	3734474	9.20E-05	4.21E-04	9.20E-07	1.26E-05	5.75E-05	1.37E-07	7.74E-06	2.64E-05	3.18E-08
4137	421233.3	3734464	8.73E-05	3.99E-04	8.72E-07	1.20E-05	5.46E-05	1.30E-07	7.34E-06	2.51E-05	3.02E-08
4138	421233.1	3734436	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.57E-08
4139	421233	3734427	7.07E-05	3.23E-04	7.07E-07	9.69E-06	4.42E-05	1.05E-07	5.95E-06	2.03E-05	2.44E-08
4140	421233	3734418	6.71E-05	3.07E-04	6.70E-07	9.19E-06	4.19E-05	9.98E-08	5.64E-06	1.93E-05	2.32E-08
4141	421232.9	3734409	6.37E-05	2.91E-04	6.36E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
4142	421232.8	3734399	6.05E-05	2.76E-04	6.04E-07	8.29E-06	3.78E-05	9.00E-08	5.09E-06	1.74E-05	2.09E-08
4143	421232.8	3734390	5.74E-05	2.63E-04	5.74E-07	7.87E-06	3.59E-05	8.55E-08	4.83E-06	1.65E-05	1.98E-08
4144	421273.5	3734510	9.40E-05	4.30E-04	9.39E-07	1.29E-05	5.88E-05	1.40E-07	7.91E-06	2.70E-05	3.25E-08
4145	421273.6	3734501	8.97E-05	4.10E-04	8.96E-07	1.23E-05	5.61E-05	1.34E-07	7.55E-06	2.58E-05	3.10E-08
4146	421273.5	3734492	8.55E-05	3.91E-04	8.55E-07	1.17E-05	5.35E-05	1.27E-07	7.20E-06	2.46E-05	2.96E-08
4147	421273.4	3734483	8.15E-05	3.73E-04	8.14E-07	1.12E-05	5.09E-05	1.21E-07	6.86E-06	2.34E-05	2.82E-08
4148	421273.4	3734473	7.76E-05	3.55E-04	7.76E-07	1.06E-05	4.85E-05	1.16E-07	6.53E-06	2.23E-05	2.68E-08
4149	421273.3	3734464	7.39E-05	3.38E-04	7.38E-07	1.01E-05	4.62E-05	1.10E-07	6.21E-06	2.12E-05	2.55E-08
4150	421273.2	3734455	7.03E-05	3.21E-04	7.02E-07	9.63E-06	4.39E-05	1.05E-07	5.91E-06	2.02E-05	2.43E-08
4151	421273.2	3734445	6.68E-05	3.06E-04	6.68E-07	9.16E-06	4.18E-05	9.95E-08	5.62E-06	1.92E-05	2.31E-08
4152	421273.1	3734436	6.36E-05	2.91E-04	6.35E-07	8.71E-06	3.97E-05	9.46E-08	5.35E-06	1.83E-05	2.20E-08
4153	421273	3734427	6.05E-05	2.77E-04	6.05E-07	8.29E-06	3.78E-05	9.00E-08	5.09E-06	1.74E-05	2.09E-08
4154	421273	3734418	5.76E-05	2.63E-04	5.76E-07	7.89E-06	3.60E-05	8.57E-08	4.85E-06	1.65E-05	1.99E-08
4155	421272.9	3734408	5.49E-05	2.51E-04	5.48E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
4156	421272.8	3734399	5.23E-05	2.39E-04	5.23E-07	7.17E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4157	421272.8	3734390	4.96E-05	2.27E-04	4.96E-07	6.81E-06	3.10E-05	7.39E-08	4.18E-06	1.43E-05	1.72E-08
4158	421313.5	3734507	7.83E-05	3.58E-04	7.83E-07	1.07E-05	4.90E-05	1.17E-07	6.59E-06	2.25E-05	2.71E-08
4159	421313.5	3734492	7.25E-05	3.32E-04	7.25E-07	9.94E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.51E-08
4160	421313.4	3734482	6.93E-05	3.17E-04	6.93E-07	9.50E-06	4.33E-05	1.03E-07	5.83E-06	1.99E-05	2.39E-08
4161	421313.4	3734473	6.62E-05	3.03E-04	6.61E-07	9.07E-06	4.14E-05	9.85E-08	5.57E-06	1.90E-05	2.29E-08
4162	421313.3	3734464	6.32E-05	2.89E-04	6.32E-07	8.66E-06	3.95E-05	9.41E-08	5.32E-06	1.82E-05	2.18E-08
4163	421313.2	3734454	6.03E-05	2.76E-04	6.03E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
4164	421313.2	3734445	5.75E-05	2.63E-04	5.75E-07	7.88E-06	3.60E-05	8.56E-08	4.84E-06	1.65E-05	1.99E-08
4165	421313.1	3734436	5.49E-05	2.51E-04	5.49E-07	7.52E-06	3.43E-05	8.17E-08	4.62E-06	1.58E-05	1.90E-08
4166	421313	3734427	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4167	421313	3734417	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.11E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
4168	421312.9	3734408	4.76E-05	2.17E-04	4.75E-07	6.52E-06	2.97E-05	7.08E-08	4.00E-06	1.37E-05	1.64E-08
4169	421312.8	3734399	4.54E-05	2.08E-04	4.54E-07	6.23E-06	2.84E-05	6.76E-08	3.82E-06	1.31E-05	1.57E-08
4170	421312.8	3734390	4.35E-05	1.99E-04	4.34E-07	5.96E-06	2.72E-05	6.47E-08	3.66E-06	1.25E-05	1.50E-08
4171	421353.1	3734436	4.79E-05	2.19E-04	4.79E-07	6.56E-06	2.99E-05	7.13E-08	4.03E-06	1.38E-05	1.65E-08
4172	421353	3734426	4.58E-05	2.10E-04	4.58E-07	6.28E-06	2.87E-05	6.82E-08	3.86E-06	1.32E-05	1.58E-08
4173	421353	3734417	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.75E-05	6.54E-08	3.69E-06	1.26E-05	1.52E-08
4174	421352.9	3734408	4.21E-05	1.92E-04	4.21E-07	5.77E-06	2.63E-05	6.26E-08	3.54E-06	1.21E-05	1.45E-08
4175	421352.8	3734399	4.03E-05	1.84E-04	4.03E-07	5.53E-06	2.52E-05	6.00E-08	3.39E-06	1.16E-05	1.39E-08
4176	421352.8	3734389	3.87E-05	1.77E-04	3.87E-07	5.30E-06	2.42E-05	5.76E-08	3.25E-06	1.11E-05	1.34E-08
4177	421393.5	3734508	5.78E-05	2.64E-04	5.78E-07	7.92E-06	3.61E-05	8.60E-08	4.86E-06	1.66E-05	2.00E-08
4178	421393.5	3734491	5.39E-05	2.46E-04	5.38E-07	7.38E-06	3.37E-05	8.02E-08	4.53E-06	1.55E-05	1.86E-08
4179	421393.4	3734482	5.17E-05	2.36E-04	5.17E-07	7.09E-06	3.23E-05	7.70E-08	4.35E-06	1.49E-05	1.79E-08
4180	421393.4	3734472	4.97E-05	2.27E-04	4.96E-07	6.81E-06	3.10E-05	7.39E-08	4.18E-06	1.43E-05	1.72E-08
4181	421393.3	3734463	4.77E-05	2.18E-04	4.76E-07	6.53E-06	2.98E-05	7.09E-08	4.01E-06	1.37E-05	1.65E-08
4182	421393.2	3734454	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
4183	421393.2	3734445	4.39E-05	2.01E-04	4.39E-07	6.02E-06	2.74E-05	6.54E-08	3.69E-06	1.26E-05	1.52E-08
4184	421393.1	3734435	4.21E-05	1.93E-04	4.21E-07	5.78E-06	2.63E-05	6.27E-08	3.55E-06	1.21E-05	1.46E-08
4185	421393	3734426	4.05E-05	1.85E-04	4.04E-07	5.55E-06	2.53E-05	6.02E-08	3.40E-06	1.16E-05	1.40E-08

4186	421393	3734417	3.89E-05	1.78E-04	3.88E-07	5.33E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
4187	421392.9	3734408	3.73E-05	1.71E-04	3.73E-07	5.12E-06	2.33E-05	5.56E-08	3.14E-06	1.07E-05	1.29E-08
4188	421392.8	3734398	3.59E-05	1.64E-04	3.58E-07	4.92E-06	2.24E-05	5.34E-08	3.02E-06	1.03E-05	1.24E-08
4189	421392.8	3734389	3.44E-05	1.57E-04	3.44E-07	4.72E-06	2.15E-05	5.12E-08	2.89E-06	9.89E-06	1.19E-08
4190	421433.5	3734508	4.97E-05	2.27E-04	4.97E-07	6.82E-06	3.11E-05	7.40E-08	4.18E-06	1.43E-05	1.72E-08
4191	421433.5	3734491	4.65E-05	2.13E-04	4.65E-07	6.38E-06	2.91E-05	6.93E-08	3.92E-06	1.34E-05	1.61E-08
4192	421433.4	3734481	4.49E-05	2.05E-04	4.49E-07	6.16E-06	2.81E-05	6.69E-08	3.78E-06	1.29E-05	1.55E-08
4193	421433.4	3734472	4.33E-05	1.98E-04	4.33E-07	5.94E-06	2.71E-05	6.45E-08	3.65E-06	1.25E-05	1.50E-08
4194	421433.3	3734463	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
4195	421433.2	3734454	4.03E-05	1.84E-04	4.03E-07	5.53E-06	2.52E-05	6.01E-08	3.39E-06	1.16E-05	1.39E-08
4196	421433.2	3734444	3.89E-05	1.78E-04	3.88E-07	5.33E-06	2.43E-05	5.78E-08	3.27E-06	1.12E-05	1.34E-08
4197	421433.1	3734435	3.74E-05	1.71E-04	3.74E-07	5.13E-06	2.34E-05	5.57E-08	3.15E-06	1.07E-05	1.29E-08
4198	421433	3734426	3.60E-05	1.65E-04	3.60E-07	4.93E-06	2.25E-05	5.36E-08	3.03E-06	1.03E-05	1.24E-08
4199	421433	3734416	3.46E-05	1.58E-04	3.46E-07	4.75E-06	2.17E-05	5.16E-08	2.91E-06	9.95E-06	1.20E-08
4200	421432.9	3734407	3.33E-05	1.52E-04	3.33E-07	4.57E-06	2.08E-05	4.96E-08	2.81E-06	9.58E-06	1.15E-08
4201	421432.8	3734398	3.21E-05	1.47E-04	3.21E-07	4.40E-06	2.01E-05	4.78E-08	2.70E-06	9.23E-06	1.11E-08
4202	421432.8	3734389	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.89E-06	1.07E-08
4203	420732.8	3734854	2.21E-04	1.01E-03	2.21E-06	3.03E-05	1.38E-04	3.29E-07	1.86E-05	6.35E-05	7.63E-08
4204	420744.5	3734854	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
4205	420732.8	3734894	1.65E-04	7.54E-04	1.65E-06	2.26E-05	1.03E-04	2.45E-07	1.39E-05	4.74E-05	5.70E-08
4206	420744.5	3734894	1.88E-04	8.59E-04	1.88E-06	2.58E-05	1.17E-04	2.80E-07	1.58E-05	5.40E-05	6.49E-08
4207	420732.8	3734934	1.28E-04	5.83E-04	1.27E-06	1.75E-05	7.97E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
4208	420744.5	3734934	1.45E-04	6.61E-04	1.45E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.16E-05	5.00E-08
4209	420732.8	3734974	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.41E-05	1.53E-07	8.63E-06	2.95E-05	3.54E-08
4210	420744.5	3734974	1.14E-04	5.21E-04	1.14E-06	1.56E-05	7.13E-05	1.70E-07	9.59E-06	3.28E-05	3.94E-08
4211	420732.8	3735014	8.32E-05	3.81E-04	8.32E-07	1.14E-05	5.20E-05	1.24E-07	7.00E-06	2.39E-05	2.88E-08
4212	420744.5	3735014	9.14E-05	4.18E-04	9.13E-07	1.25E-05	5.71E-05	1.36E-07	7.69E-06	2.63E-05	3.16E-08
4213	420732.8	3735054	6.81E-05	3.11E-04	6.81E-07	9.34E-06	4.26E-05	1.01E-07	5.73E-06	1.96E-05	2.35E-08
4214	420744.5	3735054	7.43E-05	3.40E-04	7.43E-07	1.02E-05	4.65E-05	1.11E-07	6.25E-06	2.14E-05	2.57E-08
4215	420754.4	3734384	1.08E-03	4.95E-03	1.08E-05	1.48E-04	6.76E-04	1.61E-06	9.10E-05	3.11E-04	3.74E-07
4216	420754.4	3734374	8.59E-04	3.93E-03	8.59E-06	1.18E-04	5.37E-04	1.28E-06	7.23E-05	2.47E-04	2.97E-07
4217	420754.3	3734365	6.97E-04	3.19E-03	6.96E-06	9.55E-05	4.36E-04	1.04E-06	5.86E-05	2.00E-04	2.41E-07
4218	420754.3	3734355	5.75E-04	2.63E-03	5.74E-06	7.88E-05	3.59E-04	8.56E-07	4.84E-05	1.65E-04	1.99E-07
4219	420754.3	3734345	4.80E-04	2.20E-03	4.80E-06	6.59E-05	3.00E-04	7.15E-07	4.04E-05	1.38E-04	1.66E-07
4220	420754.2	3734335	4.07E-04	1.86E-03	4.06E-06	5.57E-05	2.54E-04	6.05E-07	3.42E-05	1.17E-04	1.40E-07
4221	420754.2	3734326	3.48E-04	1.59E-03	3.48E-06	4.77E-05	2.17E-04	5.18E-07	2.93E-05	9.99E-05	1.20E-07
4222	420764.4	3734384	9.95E-04	4.55E-03	9.94E-06	1.36E-04	6.22E-04	1.48E-06	8.37E-05	2.86E-04	3.44E-07
4223	420764.4	3734374	8.05E-04	3.68E-03	8.05E-06	1.10E-04	5.03E-04	1.20E-06	6.77E-05	2.31E-04	2.78E-07
4224	420764.3	3734365	6.63E-04	3.03E-03	6.62E-06	9.08E-05	4.14E-04	9.86E-07	5.57E-05	1.90E-04	2.29E-07
4225	420764.3	3734355	5.52E-04	2.53E-03	5.52E-06	7.57E-05	3.45E-04	8.22E-07	4.65E-05	1.59E-04	1.91E-07
4226	420764.3	3734345	4.66E-04	2.13E-03	4.66E-06	6.39E-05	2.91E-04	6.94E-07	3.92E-05	1.34E-04	1.61E-07
4227	420764.2	3734335	3.97E-04	1.82E-03	3.97E-06	5.44E-05	2.48E-04	5.91E-07	3.34E-05	1.14E-04	1.37E-07
4228	420764.2	3734326	3.42E-04	1.56E-03	3.42E-06	4.69E-05	2.14E-04	5.09E-07	2.88E-05	9.83E-05	1.18E-07
4229	420774.4	3734384	9.08E-04	4.15E-03	9.08E-06	1.25E-04	5.68E-04	1.35E-06	7.64E-05	2.61E-04	3.14E-07
4230	420774.4	3734374	7.48E-04	3.42E-03	7.47E-06	1.03E-04	4.67E-04	1.11E-06	6.29E-05	2.15E-04	2.58E-07
4231	420774.3	3734364	6.24E-04	2.85E-03	6.24E-06	8.55E-05	3.90E-04	9.29E-07	5.25E-05	1.79E-04	2.16E-07
4232	420774.3	3734355	5.26E-04	2.41E-03	5.26E-06	7.21E-05	3.29E-04	7.83E-07	4.43E-05	1.51E-04	1.82E-07
4233	420774.3	3734345	4.48E-04	2.05E-03	4.48E-06	6.14E-05	2.80E-04	6.67E-07	3.77E-05	1.29E-04	1.55E-07
4234	420774.2	3734335	3.85E-04	1.76E-03	3.85E-06	5.28E-05	2.41E-04	5.73E-07	3.24E-05	1.11E-04	1.33E-07
4235	420774.2	3734326	3.34E-04	1.53E-03	3.33E-06	4.57E-05	2.09E-04	4.97E-07	2.81E-05	9.59E-05	1.15E-07
4236	420834.4	3734374	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
4237	420834.3	3734364	4.02E-04	1.84E-03	4.02E-06	5.51E-05	2.51E-04	5.99E-07	3.38E-05	1.16E-04	1.39E-07
4238	420834.3	3734355	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4239	420834.3	3734345	3.20E-04	1.46E-03	3.20E-06	4.39E-05	2.00E-04	4.77E-07	2.69E-05	9.20E-05	1.11E-07
4240	420834.2	3734335	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4241	420834.2	3734325	2.59E-04	1.18E-03	2.59E-06	3.55E-05	1.62E-04	3.85E-07	2.18E-05	7.43E-05	8.94E-08
4242	420834.2	3734316	2.33E-04	1.07E-03	2.33E-06	3.20E-05	1.46E-04	3.48E-07	1.96E-05	6.71E-05	8.07E-08
4243	420834.1	3734306	2.11E-04	9.66E-04	2.11E-06	2.89E-05	1.32E-04	3.14E-07	1.78E-05	6.07E-05	7.30E-08
4244	420844.4	3734384	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	3.99E-05	1.36E-04	1.64E-07

4245	420844.4	3734374	4.19E-04	1.92E-03	4.19E-06	5.74E-05	2.62E-04	6.24E-07	3.53E-05	1.20E-04	1.45E-07
4246	420844.3	3734364	3.73E-04	1.70E-03	3.73E-06	5.11E-05	2.33E-04	5.55E-07	3.14E-05	1.07E-04	1.29E-07
4247	420844.3	3734355	3.34E-04	1.53E-03	3.34E-06	4.58E-05	2.09E-04	4.97E-07	2.81E-05	9.59E-05	1.15E-07
4248	420844.3	3734345	3.00E-04	1.37E-03	3.00E-06	4.12E-05	1.88E-04	4.47E-07	2.53E-05	8.63E-05	1.04E-07
4249	420844.2	3734335	2.71E-04	1.24E-03	2.71E-06	3.71E-05	1.69E-04	4.03E-07	2.28E-05	7.79E-05	9.36E-08
4250	420844.2	3734325	2.45E-04	1.12E-03	2.45E-06	3.36E-05	1.53E-04	3.65E-07	2.06E-05	7.04E-05	8.47E-08
4251	420844.2	3734316	2.22E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
4252	420844.1	3734306	2.02E-04	9.24E-04	2.02E-06	2.77E-05	1.26E-04	3.01E-07	1.70E-05	5.81E-05	6.98E-08
4253	420843.5	3734444	1.28E-03	5.87E-03	1.28E-05	1.76E-04	8.03E-04	1.91E-06	1.08E-04	3.69E-04	4.44E-07
4254	420864.4	3734384	4.01E-04	1.83E-03	4.01E-06	5.50E-05	2.51E-04	5.97E-07	3.38E-05	1.15E-04	1.39E-07
4255	420864.4	3734374	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4256	420864.3	3734364	3.22E-04	1.47E-03	3.21E-06	4.41E-05	2.01E-04	4.79E-07	2.71E-05	9.24E-05	1.11E-07
4257	420864.3	3734354	2.91E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4258	420864.3	3734345	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.93E-07	2.22E-05	7.58E-05	9.11E-08
4259	420864.2	3734335	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.58E-07	2.02E-05	6.90E-05	8.30E-08
4260	420864.2	3734325	2.19E-04	1.00E-03	2.19E-06	3.01E-05	1.37E-04	3.27E-07	1.85E-05	6.30E-05	7.58E-08
4261	420864.2	3734316	2.01E-04	9.18E-04	2.01E-06	2.75E-05	1.26E-04	2.99E-07	1.69E-05	5.77E-05	6.94E-08
4262	420864.1	3734306	1.84E-04	8.42E-04	1.84E-06	2.52E-05	1.15E-04	2.74E-07	1.55E-05	5.29E-05	6.36E-08
4263	420884.3	3734345	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.46E-07	1.95E-05	6.67E-05	8.02E-08
4264	420884.2	3734335	2.13E-04	9.74E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.12E-05	7.36E-08
4265	420884.2	3734325	1.96E-04	8.96E-04	1.96E-06	2.69E-05	1.23E-04	2.92E-07	1.65E-05	5.63E-05	6.77E-08
4266	420884.2	3734316	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4267	420884.1	3734306	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.48E-07	1.40E-05	4.80E-05	5.77E-08
4268	420884.1	3734296	1.54E-04	7.06E-04	1.54E-06	2.12E-05	9.65E-05	2.30E-07	1.30E-05	4.44E-05	5.33E-08
4269	420882.9	3734445	7.95E-04	3.64E-03	7.95E-06	1.09E-04	4.97E-04	1.18E-06	6.69E-05	2.29E-04	2.75E-07
4270	420904.4	3734383	2.95E-04	1.35E-03	2.95E-06	4.04E-05	1.84E-04	4.39E-07	2.48E-05	8.47E-05	1.02E-07
4271	420904.4	3734374	2.67E-04	1.22E-03	2.67E-06	3.66E-05	1.67E-04	3.97E-07	2.25E-05	7.67E-05	9.23E-08
4272	420904.3	3734345	2.05E-04	9.37E-04	2.05E-06	2.81E-05	1.28E-04	3.05E-07	1.72E-05	5.89E-05	7.08E-08
4273	420904.2	3734335	1.89E-04	8.65E-04	1.89E-06	2.59E-05	1.18E-04	2.82E-07	1.59E-05	5.44E-05	6.54E-08
4274	420904.2	3734325	1.75E-04	8.01E-04	1.75E-06	2.40E-05	1.09E-04	2.61E-07	1.47E-05	5.03E-05	6.05E-08
4275	420904.2	3734315	1.62E-04	7.43E-04	1.62E-06	2.23E-05	1.02E-04	2.42E-07	1.37E-05	4.67E-05	5.61E-08
4276	420904.1	3734306	1.51E-04	6.90E-04	1.51E-06	2.07E-05	9.44E-05	2.25E-07	1.27E-05	4.34E-05	5.22E-08
4277	420904.1	3734296	1.40E-04	6.42E-04	1.40E-06	1.93E-05	8.78E-05	2.09E-07	1.18E-05	4.04E-05	4.85E-08
4278	420903.5	3734444	6.26E-04	2.86E-03	6.26E-06	8.58E-05	3.91E-04	9.32E-07	5.27E-05	1.80E-04	2.16E-07
4279	420924.4	3734383	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.34E-05	8.82E-08
4280	420924.4	3734374	2.33E-04	1.06E-03	2.33E-06	3.19E-05	1.45E-04	3.46E-07	1.96E-05	6.68E-05	8.04E-08
4281	420924.3	3734345	1.81E-04	8.29E-04	1.81E-06	2.49E-05	1.13E-04	2.70E-07	1.53E-05	5.21E-05	6.27E-08
4282	420924.2	3734335	1.68E-04	7.69E-04	1.68E-06	2.31E-05	1.05E-04	2.50E-07	1.42E-05	4.84E-05	5.82E-08
4283	420924.2	3734325	1.57E-04	7.16E-04	1.57E-06	2.15E-05	9.79E-05	2.33E-07	1.32E-05	4.50E-05	5.41E-08
4284	420924.2	3734315	1.46E-04	6.68E-04	1.46E-06	2.00E-05	9.13E-05	2.17E-07	1.23E-05	4.20E-05	5.05E-08
4285	420924.1	3734306	1.36E-04	6.24E-04	1.36E-06	1.87E-05	8.53E-05	2.03E-07	1.15E-05	3.92E-05	4.71E-08
4286	420924.1	3734296	1.28E-04	5.83E-04	1.28E-06	1.75E-05	7.98E-05	1.90E-07	1.07E-05	3.67E-05	4.41E-08
4287	420922.6	3734446	5.32E-04	2.43E-03	5.31E-06	7.29E-05	3.32E-04	7.91E-07	4.47E-05	1.53E-04	1.84E-07
4288	420904.4	3734491	1.10E-03	5.01E-03	1.09E-05	1.50E-04	6.85E-04	1.63E-06	9.21E-05	3.15E-04	3.78E-07
4289	420944.4	3734383	2.23E-04	1.02E-03	2.23E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.40E-05	7.69E-08
4290	420944.4	3734374	2.04E-04	9.33E-04	2.04E-06	2.80E-05	1.28E-04	3.04E-07	1.72E-05	5.86E-05	7.05E-08
4291	420944.3	3734344	1.61E-04	7.37E-04	1.61E-06	2.21E-05	1.01E-04	2.40E-07	1.36E-05	4.63E-05	5.57E-08
4292	420944.2	3734335	1.50E-04	6.87E-04	1.50E-06	2.06E-05	9.39E-05	2.24E-07	1.26E-05	4.32E-05	5.19E-08
4293	420944.2	3734325	1.40E-04	6.41E-04	1.40E-06	1.92E-05	8.77E-05	2.09E-07	1.18E-05	4.03E-05	4.85E-08
4294	420944.2	3734315	1.31E-04	6.01E-04	1.31E-06	1.80E-05	8.21E-05	1.96E-07	1.11E-05	3.77E-05	4.54E-08
4295	420944.1	3734306	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.70E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
4296	420944.1	3734296	1.16E-04	5.29E-04	1.16E-06	1.59E-05	7.24E-05	1.72E-07	9.74E-06	3.33E-05	4.00E-08
4297	420943.1	3734445	4.34E-04	1.99E-03	4.34E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
4298	420964.4	3734383	1.96E-04	8.94E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.65E-05	5.62E-05	6.76E-08
4299	420964.4	3734373	1.80E-04	8.23E-04	1.80E-06	2.47E-05	1.13E-04	2.68E-07	1.51E-05	5.17E-05	6.22E-08
4300	420964.3	3734344	1.44E-04	6.58E-04	1.44E-06	1.97E-05	9.00E-05	2.14E-07	1.21E-05	4.14E-05	4.98E-08
4301	420964.2	3734335	1.35E-04	6.15E-04	1.34E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
4302	420964.2	3734325	1.26E-04	5.76E-04	1.26E-06	1.73E-05	7.88E-05	1.88E-07	1.06E-05	3.62E-05	4.36E-08
4303	420964.2	3734315	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.40E-05	1.76E-07	9.96E-06	3.40E-05	4.09E-08

4304	420964.1	3734306	1.11E-04	5.09E-04	1.11E-06	1.53E-05	6.97E-05	1.66E-07	9.37E-06	3.20E-05	3.85E-08
4305	420964.1	3734296	1.05E-04	4.81E-04	1.05E-06	1.44E-05	6.57E-05	1.56E-07	8.84E-06	3.02E-05	3.63E-08
4306	420943.9	3734491	7.11E-04	3.25E-03	7.10E-06	9.74E-05	4.44E-04	1.06E-06	5.98E-05	2.04E-04	2.46E-07
4307	420940.3	3734500	8.03E-04	3.67E-03	8.03E-06	1.10E-04	5.02E-04	1.20E-06	6.76E-05	2.31E-04	2.78E-07
4308	420887.6	3734574	2.27E-03	1.04E-02	2.27E-05	3.12E-04	1.42E-03	3.38E-06	1.91E-04	6.53E-04	7.85E-07
4309	420807.1	3734608	5.19E-03	2.37E-02	5.19E-05	7.12E-04	3.25E-03	7.73E-06	4.37E-04	1.49E-03	1.79E-06
4310	420964.7	3734489	5.69E-04	2.60E-03	5.69E-06	7.80E-05	3.56E-04	8.47E-07	4.79E-05	1.63E-04	1.97E-07
4311	420902.3	3734588	1.94E-03	8.89E-03	1.94E-05	2.67E-04	1.22E-03	2.90E-06	1.64E-04	5.59E-04	6.72E-07
4312	420823.4	3734621	4.02E-03	1.84E-02	4.02E-05	5.52E-04	2.52E-03	5.99E-06	3.39E-04	1.16E-03	1.39E-06
4313	421004.4	3734383	1.54E-04	7.04E-04	1.54E-06	2.11E-05	9.62E-05	2.29E-07	1.29E-05	4.42E-05	5.32E-08
4314	421004.4	3734373	1.43E-04	6.53E-04	1.43E-06	1.96E-05	8.92E-05	2.12E-07	1.20E-05	4.10E-05	4.93E-08
4315	421004.3	3734344	1.16E-04	5.31E-04	1.16E-06	1.59E-05	7.26E-05	1.73E-07	9.77E-06	3.34E-05	4.01E-08
4316	421004.2	3734335	1.09E-04	4.99E-04	1.09E-06	1.49E-05	6.82E-05	1.62E-07	9.17E-06	3.13E-05	3.77E-08
4317	421004.2	3734325	1.03E-04	4.69E-04	1.03E-06	1.41E-05	6.42E-05	1.53E-07	8.64E-06	2.95E-05	3.55E-08
4318	421004.2	3734315	9.69E-05	4.43E-04	9.69E-07	1.33E-05	6.06E-05	1.44E-07	8.15E-06	2.79E-05	3.35E-08
4319	421004.1	3734305	9.18E-05	4.20E-04	9.17E-07	1.26E-05	5.74E-05	1.37E-07	7.72E-06	2.64E-05	3.17E-08
4320	421004.1	3734296	8.71E-05	3.98E-04	8.70E-07	1.19E-05	5.44E-05	1.30E-07	7.33E-06	2.50E-05	3.01E-08
4321	421003.2	3734444	2.69E-04	1.23E-03	2.69E-06	3.69E-05	1.68E-04	4.01E-07	2.27E-05	7.74E-05	9.31E-08
4322	420891.1	3734613	2.18E-03	9.98E-03	2.18E-05	2.99E-04	1.36E-03	3.25E-06	1.84E-04	6.27E-04	7.54E-07
4323	420839.3	3734634	3.21E-03	1.47E-02	3.21E-05	4.40E-04	2.01E-03	4.78E-06	2.70E-04	9.22E-04	1.11E-06
4324	421024.4	3734383	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.59E-05	2.05E-07	1.16E-05	3.95E-05	4.75E-08
4325	421024.4	3734373	1.28E-04	5.84E-04	1.28E-06	1.75E-05	7.99E-05	1.90E-07	1.08E-05	3.67E-05	4.42E-08
4326	421024.3	3734344	1.05E-04	4.80E-04	1.05E-06	1.44E-05	6.56E-05	1.56E-07	8.83E-06	3.01E-05	3.63E-08
4327	421024.2	3734334	9.88E-05	4.52E-04	9.87E-07	1.35E-05	6.18E-05	1.47E-07	8.31E-06	2.84E-05	3.41E-08
4328	421024.2	3734325	9.32E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.84E-06	2.68E-05	3.22E-08
4329	421024.2	3734315	8.82E-05	4.03E-04	8.81E-07	1.21E-05	5.51E-05	1.31E-07	7.42E-06	2.53E-05	3.05E-08
4330	421024.1	3734305	8.37E-05	3.82E-04	8.36E-07	1.15E-05	5.23E-05	1.25E-07	7.04E-06	2.40E-05	2.89E-08
4331	421024.1	3734296	7.96E-05	3.64E-04	7.95E-07	1.09E-05	4.97E-05	1.18E-07	6.69E-06	2.29E-05	2.75E-08
4332	421022.6	3734446	2.38E-04	1.09E-03	2.38E-06	3.26E-05	1.49E-04	3.54E-07	2.00E-05	6.84E-05	8.23E-08
4333	421004.4	3734490	4.05E-04	1.85E-03	4.05E-06	5.55E-05	2.53E-04	6.03E-07	3.41E-05	1.16E-04	1.40E-07
4334	420975.2	3734561	8.25E-04	3.77E-03	8.25E-06	1.13E-04	5.16E-04	1.23E-06	6.94E-05	2.37E-04	2.85E-07
4335	420971.6	3734570	8.83E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.31E-06	7.43E-05	2.54E-04	3.05E-07
4336	420967.9	3734579	9.41E-04	4.30E-03	9.41E-06	1.29E-04	5.89E-04	1.40E-06	7.92E-05	2.71E-04	3.25E-07
4337	420964.3	3734588	1.00E-03	4.59E-03	1.00E-05	1.38E-04	6.28E-04	1.49E-06	8.44E-05	2.88E-04	3.47E-07
4338	420930.4	3734616	1.46E-03	6.70E-03	1.46E-05	2.01E-04	9.16E-04	2.18E-06	1.23E-04	4.21E-04	5.06E-07
4339	420850.7	3734650	2.66E-03	1.22E-02	2.66E-05	3.65E-04	1.66E-03	3.96E-06	2.24E-04	7.65E-04	9.20E-07
4340	421044.5	3734393	1.31E-04	5.99E-04	1.31E-06	1.79E-05	8.19E-05	1.95E-07	1.10E-05	3.76E-05	4.52E-08
4341	421044.4	3734383	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.70E-05	1.83E-07	1.04E-05	3.54E-05	4.26E-08
4342	421044.4	3734373	1.15E-04	5.26E-04	1.15E-06	1.58E-05	7.19E-05	1.71E-07	9.68E-06	3.31E-05	3.98E-08
4343	421044.3	3734344	9.50E-05	4.35E-04	9.50E-07	1.30E-05	5.94E-05	1.41E-07	8.00E-06	2.73E-05	3.28E-08
4344	421044.2	3734334	8.97E-05	4.10E-04	8.96E-07	1.23E-05	5.61E-05	1.33E-07	7.54E-06	2.58E-05	3.10E-08
4345	421044.2	3734325	8.48E-05	3.88E-04	8.47E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
4346	421044.2	3734315	8.04E-05	3.68E-04	8.03E-07	1.10E-05	5.03E-05	1.20E-07	6.76E-06	2.31E-05	2.78E-08
4347	421044.1	3734305	7.64E-05	3.49E-04	7.64E-07	1.05E-05	4.78E-05	1.14E-07	6.43E-06	2.20E-05	2.64E-08
4348	421062.4	3734446	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4349	421055.1	3734464	2.21E-04	1.01E-03	2.21E-06	3.03E-05	1.38E-04	3.29E-07	1.86E-05	6.36E-05	7.64E-08
4350	421051.4	3734473	2.44E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.02E-05	8.45E-08
4351	421047.7	3734482	2.70E-04	1.23E-03	2.70E-06	3.70E-05	1.69E-04	4.01E-07	2.27E-05	7.75E-05	9.32E-08
4352	421044.1	3734491	2.97E-04	1.36E-03	2.97E-06	4.07E-05	1.86E-04	4.42E-07	2.50E-05	8.53E-05	1.03E-07
4353	421014.7	3734562	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.75E-07	4.95E-05	1.69E-04	2.03E-07
4354	420992.7	3734616	8.40E-04	3.84E-03	8.40E-06	1.15E-04	5.25E-04	1.25E-06	7.07E-05	2.41E-04	2.90E-07
4355	420989	3734625	8.79E-04	4.02E-03	8.79E-06	1.21E-04	5.50E-04	1.31E-06	7.40E-05	2.53E-04	3.04E-07
4356	420958.6	3734645	1.15E-03	5.25E-03	1.15E-05	1.57E-04	7.18E-04	1.71E-06	9.66E-05	3.30E-04	3.97E-07
4357	420878.3	3734678	1.88E-03	8.58E-03	1.88E-05	2.57E-04	1.17E-03	2.79E-06	1.58E-04	5.39E-04	6.48E-07
4358	421053	3734566	4.45E-04	2.03E-03	4.45E-06	6.10E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
4359	421049.4	3734575	4.75E-04	2.17E-03	4.75E-06	6.51E-05	2.97E-04	7.07E-07	4.00E-05	1.36E-04	1.64E-07
4360	421045.8	3734584	5.05E-04	2.31E-03	5.05E-06	6.93E-05	3.16E-04	7.52E-07	4.25E-05	1.45E-04	1.75E-07
4361	421042.2	3734592	5.36E-04	2.45E-03	5.35E-06	7.34E-05	3.35E-04	7.97E-07	4.51E-05	1.54E-04	1.85E-07
4362	420987.6	3734673	9.07E-04	4.15E-03	9.07E-06	1.24E-04	5.67E-04	1.35E-06	7.63E-05	2.61E-04	3.14E-07

4363	420961.6	3734684	1.07E-03	4.89E-03	1.07E-05	1.47E-04	6.68E-04	1.59E-06	8.99E-05	3.07E-04	3.69E-07
4364	420909.4	3734705	1.37E-03	6.27E-03	1.37E-05	1.88E-04	8.57E-04	2.04E-06	1.15E-04	3.94E-04	4.74E-07
4365	421124.5	3734392	8.98E-05	4.11E-04	8.98E-07	1.23E-05	5.62E-05	1.34E-07	7.56E-06	2.58E-05	3.10E-08
4366	421124.4	3734383	8.44E-05	3.86E-04	8.43E-07	1.16E-05	5.27E-05	1.26E-07	7.10E-06	2.42E-05	2.91E-08
4367	421124.4	3734373	7.94E-05	3.63E-04	7.94E-07	1.09E-05	4.96E-05	1.18E-07	6.68E-06	2.28E-05	2.74E-08
4368	421124.3	3734353	7.08E-05	3.24E-04	7.08E-07	9.71E-06	4.43E-05	1.05E-07	5.96E-06	2.03E-05	2.45E-08
4369	421124.3	3734344	6.71E-05	3.07E-04	6.71E-07	9.20E-06	4.19E-05	9.99E-08	5.64E-06	1.93E-05	2.32E-08
4370	421124.2	3734334	6.37E-05	2.91E-04	6.37E-07	8.73E-06	3.98E-05	9.48E-08	5.36E-06	1.83E-05	2.20E-08
4371	421124.2	3734324	6.06E-05	2.77E-04	6.06E-07	8.31E-06	3.79E-05	9.02E-08	5.10E-06	1.74E-05	2.09E-08
4372	421124.2	3734315	5.78E-05	2.64E-04	5.78E-07	7.92E-06	3.61E-05	8.60E-08	4.86E-06	1.66E-05	2.00E-08
4373	421124.1	3734305	5.52E-05	2.52E-04	5.52E-07	7.57E-06	3.45E-05	8.22E-08	4.64E-06	1.59E-05	1.91E-08
4374	421124.1	3734295	5.28E-05	2.42E-04	5.28E-07	7.24E-06	3.30E-05	7.86E-08	4.44E-06	1.52E-05	1.83E-08
4375	421142.8	3734445	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.15E-05	1.70E-07	9.62E-06	3.28E-05	3.95E-08
4376	421135.6	3734462	1.33E-04	6.08E-04	1.33E-06	1.82E-05	8.31E-05	1.98E-07	1.12E-05	3.82E-05	4.60E-08
4377	421132	3734471	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.07E-05	2.16E-07	1.22E-05	4.17E-05	5.01E-08
4378	421128.4	3734480	1.58E-04	7.22E-04	1.58E-06	2.17E-05	9.88E-05	2.35E-07	1.33E-05	4.54E-05	5.46E-08
4379	421124.8	3734489	1.72E-04	7.87E-04	1.72E-06	2.36E-05	1.08E-04	2.56E-07	1.45E-05	4.94E-05	5.95E-08
4380	421088.8	3734576	3.63E-04	1.66E-03	3.63E-06	4.97E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
4381	421085.2	3734585	3.86E-04	1.77E-03	3.86E-06	5.29E-05	2.41E-04	5.75E-07	3.25E-05	1.11E-04	1.33E-07
4382	421081.6	3734594	4.09E-04	1.87E-03	4.09E-06	5.61E-05	2.56E-04	6.09E-07	3.44E-05	1.18E-04	1.41E-07
4383	421078	3734602	4.32E-04	1.98E-03	4.32E-06	5.93E-05	2.70E-04	6.43E-07	3.64E-05	1.24E-04	1.49E-07
4384	421074.4	3734611	4.55E-04	2.08E-03	4.54E-06	6.23E-05	2.84E-04	6.77E-07	3.83E-05	1.31E-04	1.57E-07
4385	421033.2	3734694	6.56E-04	3.00E-03	6.55E-06	8.99E-05	4.10E-04	9.76E-07	5.52E-05	1.88E-04	2.27E-07
4386	421024.5	3734697	6.93E-04	3.17E-03	6.92E-06	9.49E-05	4.33E-04	1.03E-06	5.83E-05	1.99E-04	2.39E-07
4387	421015.7	3734701	7.31E-04	3.34E-03	7.30E-06	1.00E-04	4.57E-04	1.09E-06	6.15E-05	2.10E-04	2.52E-07
4388	420989.5	3734712	8.44E-04	3.86E-03	8.43E-06	1.16E-04	5.27E-04	1.26E-06	7.10E-05	2.42E-04	2.91E-07
4389	420980.7	3734716	8.80E-04	4.02E-03	8.79E-06	1.21E-04	5.50E-04	1.31E-06	7.40E-05	2.53E-04	3.04E-07
4390	420972	3734719	9.15E-04	4.18E-03	9.15E-06	1.25E-04	5.72E-04	1.36E-06	7.70E-05	2.63E-04	3.16E-07
4391	421164.3	3734353	6.06E-05	2.77E-04	6.06E-07	8.31E-06	3.79E-05	9.02E-08	5.10E-06	1.74E-05	2.09E-08
4392	421164.3	3734344	5.76E-05	2.63E-04	5.75E-07	7.89E-06	3.60E-05	8.57E-08	4.84E-06	1.65E-05	1.99E-08
4393	421164.2	3734334	5.48E-05	2.50E-04	5.47E-07	7.51E-06	3.42E-05	8.15E-08	4.61E-06	1.57E-05	1.89E-08
4394	421164.2	3734324	5.22E-05	2.39E-04	5.22E-07	7.15E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4395	421164.2	3734315	4.98E-05	2.28E-04	4.98E-07	6.83E-06	3.12E-05	7.42E-08	4.19E-06	1.43E-05	1.72E-08
4396	421164.1	3734305	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
4397	421164.1	3734295	4.57E-05	2.09E-04	4.57E-07	6.27E-06	2.86E-05	6.81E-08	3.85E-06	1.31E-05	1.58E-08
4398	421182.7	3734445	9.73E-05	4.45E-04	9.73E-07	1.33E-05	6.08E-05	1.45E-07	8.19E-06	2.80E-05	3.36E-08
4399	421175.5	3734463	1.12E-04	5.13E-04	1.12E-06	1.54E-05	7.01E-05	1.67E-07	9.44E-06	3.22E-05	3.88E-08
4400	421171.8	3734471	1.21E-04	5.54E-04	1.21E-06	1.66E-05	7.58E-05	1.80E-07	1.02E-05	3.48E-05	4.19E-08
4401	421168.2	3734480	1.31E-04	5.98E-04	1.31E-06	1.79E-05	8.17E-05	1.95E-07	1.10E-05	3.76E-05	4.52E-08
4402	421164.6	3734489	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.80E-05	2.10E-07	1.18E-05	4.05E-05	4.87E-08
4403	421132	3734568	2.63E-04	1.20E-03	2.63E-06	3.60E-05	1.64E-04	3.91E-07	2.21E-05	7.55E-05	9.08E-08
4404	421128.3	3734577	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.69E-08
4405	421124.7	3734586	2.99E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4406	421121.1	3734595	3.17E-04	1.45E-03	3.17E-06	4.34E-05	1.98E-04	4.72E-07	2.67E-05	9.11E-05	1.10E-07
4407	421117.5	3734604	3.35E-04	1.53E-03	3.35E-06	4.60E-05	2.10E-04	4.99E-07	2.82E-05	9.64E-05	1.16E-07
4408	421061.5	3734722	5.48E-04	2.51E-03	5.48E-06	7.52E-05	3.43E-04	8.16E-07	4.61E-05	1.58E-04	1.89E-07
4409	421052.7	3734726	5.76E-04	2.63E-03	5.75E-06	7.89E-05	3.60E-04	8.57E-07	4.84E-05	1.65E-04	1.99E-07
4410	421043.9	3734729	6.02E-04	2.75E-03	6.02E-06	8.25E-05	3.76E-04	8.96E-07	5.06E-05	1.73E-04	2.08E-07
4411	420964.6	3734762	8.12E-04	3.71E-03	8.12E-06	1.11E-04	5.08E-04	1.21E-06	6.84E-05	2.33E-04	2.81E-07
4412	420955.8	3734766	8.34E-04	3.81E-03	8.33E-06	1.14E-04	5.21E-04	1.24E-06	7.01E-05	2.40E-04	2.88E-07
4413	420947	3734770	8.54E-04	3.91E-03	8.54E-06	1.17E-04	5.34E-04	1.27E-06	7.19E-05	2.45E-04	2.95E-07
4414	420938.2	3734773	8.71E-04	3.98E-03	8.71E-06	1.19E-04	5.45E-04	1.30E-06	7.33E-05	2.50E-04	3.01E-07
4415	420929.4	3734777	8.85E-04	4.05E-03	8.84E-06	1.21E-04	5.53E-04	1.32E-06	7.44E-05	2.54E-04	3.06E-07
4416	420920.6	3734781	8.92E-04	4.08E-03	8.92E-06	1.22E-04	5.58E-04	1.33E-06	7.51E-05	2.56E-04	3.08E-07
4417	420911.8	3734784	8.95E-04	4.09E-03	8.94E-06	1.23E-04	5.59E-04	1.33E-06	7.53E-05	2.57E-04	3.09E-07
4418	420903	3734788	8.92E-04	4.08E-03	8.91E-06	1.22E-04	5.58E-04	1.33E-06	7.50E-05	2.56E-04	3.08E-07
4419	420894.2	3734792	8.84E-04	4.04E-03	8.83E-06	1.21E-04	5.52E-04	1.32E-06	7.43E-05	2.54E-04	3.05E-07
4420	420885.4	3734795	8.70E-04	3.98E-03	8.69E-06	1.19E-04	5.44E-04	1.29E-06	7.32E-05	2.50E-04	3.00E-07
4421	420876.6	3734799	8.49E-04	3.88E-03	8.49E-06	1.16E-04	5.31E-04	1.26E-06	7.15E-05	2.44E-04	2.94E-07

4422	420867.8	3734802	8.24E-04	3.77E-03	8.23E-06	1.13E-04	5.15E-04	1.23E-06	6.93E-05	2.37E-04	2.85E-07
4423	420859	3734806	7.92E-04	3.62E-03	7.92E-06	1.09E-04	4.95E-04	1.18E-06	6.67E-05	2.28E-04	2.74E-07
4424	420850.1	3734810	7.56E-04	3.46E-03	7.56E-06	1.04E-04	4.73E-04	1.13E-06	6.36E-05	2.17E-04	2.61E-07
4425	420841.3	3734813	7.17E-04	3.28E-03	7.17E-06	9.83E-05	4.48E-04	1.07E-06	6.03E-05	2.06E-04	2.48E-07
4426	420832.5	3734817	6.75E-04	3.09E-03	6.75E-06	9.25E-05	4.22E-04	1.00E-06	5.68E-05	1.94E-04	2.33E-07
4427	420823.7	3734821	6.31E-04	2.88E-03	6.30E-06	8.64E-05	3.94E-04	9.39E-07	5.31E-05	1.81E-04	2.18E-07
4428	420814.9	3734824	5.85E-04	2.67E-03	5.85E-06	8.02E-05	3.66E-04	8.71E-07	4.92E-05	1.68E-04	2.02E-07
4429	420806.1	3734828	5.39E-04	2.46E-03	5.38E-06	7.39E-05	3.37E-04	8.02E-07	4.53E-05	1.55E-04	1.86E-07
4430	420797.3	3734832	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4431	420788.5	3734835	4.48E-04	2.05E-03	4.48E-06	6.14E-05	2.80E-04	6.67E-07	3.77E-05	1.29E-04	1.55E-07
4432	420779.7	3734839	4.05E-04	1.85E-03	4.05E-06	5.55E-05	2.53E-04	6.03E-07	3.41E-05	1.16E-04	1.40E-07
4433	420770.9	3734843	3.64E-04	1.67E-03	3.64E-06	5.00E-05	2.28E-04	5.43E-07	3.07E-05	1.05E-04	1.26E-07
4434	420762.1	3734846	3.26E-04	1.49E-03	3.26E-06	4.47E-05	2.04E-04	4.86E-07	2.74E-05	9.37E-05	1.13E-07
4435	420753.3	3734850	2.90E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4436	421204.5	3734392	6.45E-05	2.95E-04	6.45E-07	8.85E-06	4.04E-05	9.61E-08	5.43E-06	1.85E-05	2.23E-08
4437	421204.4	3734382	6.11E-05	2.79E-04	6.11E-07	8.38E-06	3.82E-05	9.10E-08	5.14E-06	1.76E-05	2.11E-08
4438	421204.4	3734373	5.79E-05	2.65E-04	5.79E-07	7.94E-06	3.62E-05	8.62E-08	4.87E-06	1.66E-05	2.00E-08
4439	421204.3	3734353	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4440	421204.3	3734343	4.97E-05	2.27E-04	4.97E-07	6.82E-06	3.11E-05	7.40E-08	4.18E-06	1.43E-05	1.72E-08
4441	421204.2	3734334	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.97E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
4442	421204.2	3734324	4.53E-05	2.07E-04	4.53E-07	6.22E-06	2.83E-05	6.75E-08	3.81E-06	1.30E-05	1.57E-08
4443	421204.2	3734314	4.34E-05	1.98E-04	4.34E-07	5.95E-06	2.71E-05	6.46E-08	3.65E-06	1.25E-05	1.50E-08
4444	421204.1	3734305	4.16E-05	1.90E-04	4.16E-07	5.71E-06	2.60E-05	6.20E-08	3.50E-06	1.20E-05	1.44E-08
4445	421204.1	3734295	4.00E-05	1.83E-04	4.00E-07	5.48E-06	2.50E-05	5.95E-08	3.36E-06	1.15E-05	1.38E-08
4446	421222.6	3734445	8.18E-05	3.74E-04	8.17E-07	1.12E-05	5.11E-05	1.22E-07	6.88E-06	2.35E-05	2.83E-08
4447	421215.3	3734463	9.37E-05	4.28E-04	9.36E-07	1.28E-05	5.86E-05	1.39E-07	7.88E-06	2.69E-05	3.24E-08
4448	421211.6	3734472	1.00E-04	4.59E-04	1.00E-06	1.38E-05	6.27E-05	1.49E-07	8.44E-06	2.88E-05	3.47E-08
4449	421208	3734481	1.08E-04	4.92E-04	1.08E-06	1.47E-05	6.73E-05	1.60E-07	9.05E-06	3.09E-05	3.72E-08
4450	421204.4	3734489	1.15E-04	5.27E-04	1.15E-06	1.58E-05	7.21E-05	1.72E-07	9.70E-06	3.31E-05	3.99E-08
4451	421171.6	3734569	2.05E-04	9.38E-04	2.05E-06	2.81E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.09E-08
4452	421167.9	3734578	2.18E-04	9.96E-04	2.18E-06	2.99E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.53E-08
4453	421164.3	3734587	2.32E-04	1.06E-03	2.32E-06	3.18E-05	1.45E-04	3.45E-07	1.95E-05	6.66E-05	8.01E-08
4454	421160.6	3734596	2.46E-04	1.13E-03	2.46E-06	3.38E-05	1.54E-04	3.67E-07	2.07E-05	7.08E-05	8.51E-08
4455	421157	3734605	2.61E-04	1.19E-03	2.61E-06	3.58E-05	1.63E-04	3.88E-07	2.19E-05	7.49E-05	9.01E-08
4456	421153.3	3734614	2.75E-04	1.26E-03	2.75E-06	3.77E-05	1.72E-04	4.10E-07	2.32E-05	7.91E-05	9.51E-08
4457	421149.7	3734622	2.90E-04	1.32E-03	2.89E-06	3.97E-05	1.81E-04	4.31E-07	2.44E-05	8.32E-05	1.00E-07
4458	421146	3734631	3.04E-04	1.39E-03	3.04E-06	4.16E-05	1.90E-04	4.52E-07	2.56E-05	8.73E-05	1.05E-07
4459	421142.4	3734640	3.18E-04	1.45E-03	3.18E-06	4.36E-05	1.99E-04	4.73E-07	2.67E-05	9.13E-05	1.10E-07
4460	421138.8	3734649	3.31E-04	1.51E-03	3.31E-06	4.53E-05	2.07E-04	4.92E-07	2.78E-05	9.50E-05	1.14E-07
4461	421135.1	3734658	3.43E-04	1.57E-03	3.43E-06	4.70E-05	2.14E-04	5.11E-07	2.89E-05	9.86E-05	1.19E-07
4462	421131.5	3734667	3.55E-04	1.62E-03	3.55E-06	4.87E-05	2.22E-04	5.28E-07	2.99E-05	1.02E-04	1.23E-07
4463	421127.8	3734676	3.67E-04	1.68E-03	3.67E-06	5.03E-05	2.30E-04	5.47E-07	3.09E-05	1.05E-04	1.27E-07
4464	421124.2	3734685	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
4465	421120.5	3734693	3.90E-04	1.78E-03	3.90E-06	5.35E-05	2.44E-04	5.81E-07	3.28E-05	1.12E-04	1.35E-07
4466	421089.8	3734750	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
4467	421081	3734754	4.82E-04	2.20E-03	4.82E-06	6.60E-05	3.01E-04	7.17E-07	4.05E-05	1.38E-04	1.66E-07
4468	421072.1	3734758	5.01E-04	2.29E-03	5.01E-06	6.87E-05	3.14E-04	7.47E-07	4.22E-05	1.44E-04	1.73E-07
4469	421045.5	3734769	5.54E-04	2.53E-03	5.53E-06	7.59E-05	3.46E-04	8.24E-07	4.66E-05	1.59E-04	1.91E-07
4470	421036.7	3734772	5.71E-04	2.61E-03	5.70E-06	7.82E-05	3.57E-04	8.49E-07	4.80E-05	1.64E-04	1.97E-07
4471	421027.8	3734776	5.87E-04	2.69E-03	5.87E-06	8.05E-05	3.67E-04	8.74E-07	4.94E-05	1.69E-04	2.03E-07
4472	420992.4	3734791	6.52E-04	2.98E-03	6.51E-06	8.93E-05	4.07E-04	9.70E-07	5.48E-05	1.87E-04	2.25E-07
4473	420983.5	3734794	6.67E-04	3.05E-03	6.67E-06	9.14E-05	4.17E-04	9.93E-07	5.61E-05	1.92E-04	2.31E-07
4474	420974.7	3734798	6.82E-04	3.12E-03	6.81E-06	9.34E-05	4.26E-04	1.01E-06	5.73E-05	1.96E-04	2.36E-07
4475	420965.8	3734802	6.94E-04	3.17E-03	6.94E-06	9.51E-05	4.34E-04	1.03E-06	5.84E-05	1.99E-04	2.40E-07
4476	420957	3734805	7.04E-04	3.22E-03	7.04E-06	9.66E-05	4.40E-04	1.05E-06	5.93E-05	2.02E-04	2.43E-07
4477	420948.1	3734809	7.13E-04	3.26E-03	7.13E-06	9.78E-05	4.46E-04	1.06E-06	6.00E-05	2.05E-04	2.46E-07
4478	420939.3	3734813	7.19E-04	3.29E-03	7.18E-06	9.85E-05	4.49E-04	1.07E-06	6.05E-05	2.07E-04	2.48E-07
4479	420930.4	3734816	7.21E-04	3.30E-03	7.20E-06	9.88E-05	4.51E-04	1.07E-06	6.06E-05	2.07E-04	2.49E-07
4480	420921.6	3734820	7.18E-04	3.28E-03	7.18E-06	9.84E-05	4.49E-04	1.07E-06	6.04E-05	2.06E-04	2.48E-07

4481	420912.7	3734824	7.11E-04	3.25E-03	7.11E-06	9.75E-05	4.45E-04	1.06E-06	5.98E-05	2.04E-04	2.46E-07
4482	420903.8	3734827	7.01E-04	3.20E-03	7.00E-06	9.60E-05	4.38E-04	1.04E-06	5.89E-05	2.01E-04	2.42E-07
4483	420895	3734831	6.86E-04	3.13E-03	6.85E-06	9.40E-05	4.29E-04	1.02E-06	5.77E-05	1.97E-04	2.37E-07
4484	420886.1	3734835	6.66E-04	3.05E-03	6.66E-06	9.14E-05	4.17E-04	9.92E-07	5.61E-05	1.91E-04	2.30E-07
4485	420877.3	3734839	6.44E-04	2.94E-03	6.43E-06	8.83E-05	4.03E-04	9.58E-07	5.42E-05	1.85E-04	2.22E-07
4486	420868.4	3734842	6.18E-04	2.83E-03	6.18E-06	8.47E-05	3.86E-04	9.20E-07	5.20E-05	1.78E-04	2.14E-07
4487	420859.6	3734846	5.90E-04	2.70E-03	5.89E-06	8.08E-05	3.69E-04	8.78E-07	4.96E-05	1.69E-04	2.04E-07
4488	420850.7	3734850	5.59E-04	2.55E-03	5.58E-06	7.66E-05	3.49E-04	8.32E-07	4.70E-05	1.61E-04	1.93E-07
4489	420841.9	3734853	5.26E-04	2.41E-03	5.26E-06	7.21E-05	3.29E-04	7.83E-07	4.43E-05	1.51E-04	1.82E-07
4490	420833	3734857	4.92E-04	2.25E-03	4.92E-06	6.75E-05	3.08E-04	7.33E-07	4.14E-05	1.42E-04	1.70E-07
4491	420824.2	3734861	4.58E-04	2.09E-03	4.58E-06	6.28E-05	2.86E-04	6.82E-07	3.85E-05	1.32E-04	1.58E-07
4492	420815.3	3734864	4.23E-04	1.94E-03	4.23E-06	5.80E-05	2.65E-04	6.30E-07	3.56E-05	1.22E-04	1.46E-07
4493	420806.4	3734868	3.89E-04	1.78E-03	3.89E-06	5.34E-05	2.43E-04	5.79E-07	3.27E-05	1.12E-04	1.35E-07
4494	420797.6	3734872	3.56E-04	1.63E-03	3.56E-06	4.88E-05	2.23E-04	5.30E-07	2.99E-05	1.02E-04	1.23E-07
4495	420788.7	3734875	3.24E-04	1.48E-03	3.24E-06	4.44E-05	2.03E-04	4.82E-07	2.73E-05	9.31E-05	1.12E-07
4496	420779.9	3734879	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
4497	420771	3734883	2.64E-04	1.21E-03	2.64E-06	3.61E-05	1.65E-04	3.92E-07	2.22E-05	7.58E-05	9.11E-08
4498	420762.2	3734886	2.36E-04	1.08E-03	2.36E-06	3.24E-05	1.48E-04	3.52E-07	1.99E-05	6.79E-05	8.17E-08
4499	420753.3	3734890	2.11E-04	9.67E-04	2.11E-06	2.90E-05	1.32E-04	3.15E-07	1.78E-05	6.08E-05	7.31E-08
4500	421262.5	3734445	6.96E-05	3.18E-04	6.95E-07	9.53E-06	4.35E-05	1.04E-07	5.85E-06	2.00E-05	2.40E-08
4501	421258.8	3734454	7.42E-05	3.39E-04	7.41E-07	1.02E-05	4.64E-05	1.10E-07	6.24E-06	2.13E-05	2.56E-08
4502	421255.2	3734463	7.91E-05	3.62E-04	7.90E-07	1.08E-05	4.94E-05	1.18E-07	6.65E-06	2.27E-05	2.73E-08
4503	421251.5	3734472	8.43E-05	3.86E-04	8.43E-07	1.16E-05	5.27E-05	1.26E-07	7.10E-06	2.42E-05	2.91E-08
4504	421207.6	3734579	1.74E-04	7.97E-04	1.74E-06	2.39E-05	1.09E-04	2.59E-07	1.47E-05	5.01E-05	6.02E-08
4505	421203.9	3734588	1.84E-04	8.43E-04	1.84E-06	2.53E-05	1.15E-04	2.75E-07	1.55E-05	5.30E-05	6.37E-08
4506	421200.2	3734597	1.95E-04	8.92E-04	1.95E-06	2.67E-05	1.22E-04	2.90E-07	1.64E-05	5.60E-05	6.74E-08
4507	421196.6	3734606	2.06E-04	9.44E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.74E-05	5.93E-05	7.13E-08
4508	421192.9	3734614	2.18E-04	9.95E-04	2.18E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.26E-05	7.52E-08
4509	421189.2	3734623	2.29E-04	1.05E-03	2.29E-06	3.14E-05	1.43E-04	3.41E-07	1.93E-05	6.58E-05	7.91E-08
4510	421185.6	3734632	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.58E-07	2.02E-05	6.90E-05	8.30E-08
4511	421181.9	3734641	2.51E-04	1.15E-03	2.51E-06	3.45E-05	1.57E-04	3.74E-07	2.12E-05	7.23E-05	8.69E-08
4512	421178.3	3734650	2.63E-04	1.20E-03	2.63E-06	3.60E-05	1.64E-04	3.91E-07	2.21E-05	7.55E-05	9.08E-08
4513	421174.6	3734659	2.74E-04	1.25E-03	2.74E-06	3.75E-05	1.71E-04	4.08E-07	2.30E-05	7.87E-05	9.46E-08
4514	421170.9	3734668	2.85E-04	1.30E-03	2.84E-06	3.90E-05	1.78E-04	4.24E-07	2.39E-05	8.18E-05	9.83E-08
4515	421167.3	3734677	2.95E-04	1.35E-03	2.95E-06	4.05E-05	1.85E-04	4.40E-07	2.49E-05	8.49E-05	1.02E-07
4516	421163.6	3734686	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.91E-04	4.56E-07	2.57E-05	8.79E-05	1.06E-07
4517	421160	3734695	3.16E-04	1.45E-03	3.16E-06	4.34E-05	1.98E-04	4.71E-07	2.66E-05	9.09E-05	1.09E-07
4518	421156.3	3734704	3.26E-04	1.49E-03	3.26E-06	4.47E-05	2.04E-04	4.85E-07	2.74E-05	9.37E-05	1.13E-07
4519	421152.6	3734712	3.35E-04	1.53E-03	3.35E-06	4.59E-05	2.09E-04	4.99E-07	2.82E-05	9.63E-05	1.16E-07
4520	421149	3734721	3.44E-04	1.57E-03	3.44E-06	4.71E-05	2.15E-04	5.12E-07	2.89E-05	9.88E-05	1.19E-07
4521	421073.6	3734797	4.65E-04	2.13E-03	4.65E-06	6.38E-05	2.91E-04	6.93E-07	3.91E-05	1.34E-04	1.61E-07
4522	421064.7	3734801	4.79E-04	2.19E-03	4.79E-06	6.57E-05	3.00E-04	7.13E-07	4.03E-05	1.38E-04	1.66E-07
4523	421055.8	3734804	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4524	421020.2	3734819	5.39E-04	2.47E-03	5.39E-06	7.39E-05	3.37E-04	8.03E-07	4.54E-05	1.55E-04	1.86E-07
4525	420993.6	3734830	5.68E-04	2.60E-03	5.68E-06	7.78E-05	3.55E-04	8.45E-07	4.78E-05	1.63E-04	1.96E-07
4526	420984.7	3734834	5.76E-04	2.63E-03	5.76E-06	7.90E-05	3.60E-04	8.58E-07	4.85E-05	1.66E-04	1.99E-07
4527	420975.8	3734838	5.83E-04	2.67E-03	5.83E-06	7.99E-05	3.65E-04	8.68E-07	4.91E-05	1.68E-04	2.02E-07
4528	420966.9	3734841	5.88E-04	2.69E-03	5.88E-06	8.06E-05	3.68E-04	8.76E-07	4.95E-05	1.69E-04	2.03E-07
4529	420958	3734845	5.91E-04	2.70E-03	5.91E-06	8.10E-05	3.70E-04	8.80E-07	4.97E-05	1.70E-04	2.04E-07
4530	420949.1	3734849	5.91E-04	2.70E-03	5.91E-06	8.11E-05	3.70E-04	8.80E-07	4.98E-05	1.70E-04	2.04E-07
4531	420940.2	3734852	5.89E-04	2.69E-03	5.89E-06	8.07E-05	3.68E-04	8.77E-07	4.96E-05	1.69E-04	2.04E-07
4532	420931.3	3734856	5.84E-04	2.67E-03	5.84E-06	8.00E-05	3.65E-04	8.69E-07	4.91E-05	1.68E-04	2.02E-07
4533	420922.4	3734860	5.76E-04	2.63E-03	5.75E-06	7.89E-05	3.60E-04	8.57E-07	4.84E-05	1.65E-04	1.99E-07
4534	420913.5	3734863	5.65E-04	2.58E-03	5.64E-06	7.74E-05	3.53E-04	8.40E-07	4.75E-05	1.62E-04	1.95E-07
4535	420904.6	3734867	5.50E-04	2.52E-03	5.50E-06	7.55E-05	3.44E-04	8.19E-07	4.63E-05	1.58E-04	1.90E-07
4536	420895.7	3734871	5.34E-04	2.44E-03	5.33E-06	7.32E-05	3.34E-04	7.94E-07	4.49E-05	1.53E-04	1.84E-07
4537	420886.8	3734875	5.14E-04	2.35E-03	5.14E-06	7.05E-05	3.22E-04	7.66E-07	4.33E-05	1.48E-04	1.78E-07
4538	420877.9	3734878	4.93E-04	2.25E-03	4.93E-06	6.76E-05	3.08E-04	7.34E-07	4.15E-05	1.42E-04	1.70E-07
4539	420869	3734882	4.70E-04	2.15E-03	4.69E-06	6.44E-05	2.94E-04	6.99E-07	3.95E-05	1.35E-04	1.62E-07

4540	420860.1	3734886	4.45E-04	2.03E-03	4.44E-06	6.09E-05	2.78E-04	6.62E-07	3.74E-05	1.28E-04	1.54E-07
4541	420851.2	3734889	4.19E-04	1.91E-03	4.18E-06	5.74E-05	2.62E-04	6.23E-07	3.52E-05	1.20E-04	1.45E-07
4542	420842.3	3734893	3.92E-04	1.79E-03	3.92E-06	5.37E-05	2.45E-04	5.83E-07	3.30E-05	1.13E-04	1.35E-07
4543	420833.4	3734897	3.65E-04	1.67E-03	3.65E-06	5.00E-05	2.28E-04	5.43E-07	3.07E-05	1.05E-04	1.26E-07
4544	420824.5	3734900	3.38E-04	1.54E-03	3.38E-06	4.63E-05	2.11E-04	5.03E-07	2.84E-05	9.71E-05	1.17E-07
4545	420815.6	3734904	3.11E-04	1.42E-03	3.11E-06	4.27E-05	1.95E-04	4.64E-07	2.62E-05	8.95E-05	1.08E-07
4546	420806.7	3734908	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.21E-05	9.88E-08
4547	420797.8	3734912	2.62E-04	1.20E-03	2.62E-06	3.60E-05	1.64E-04	3.90E-07	2.21E-05	7.54E-05	9.06E-08
4548	420788.9	3734915	2.40E-04	1.10E-03	2.40E-06	3.29E-05	1.50E-04	3.57E-07	2.02E-05	6.89E-05	8.29E-08
4549	420780	3734919	2.19E-04	1.00E-03	2.19E-06	3.00E-05	1.37E-04	3.26E-07	1.84E-05	6.29E-05	7.57E-08
4550	420771.1	3734923	1.99E-04	9.08E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
4551	420762.2	3734926	1.79E-04	8.21E-04	1.79E-06	2.46E-05	1.12E-04	2.67E-07	1.51E-05	5.16E-05	6.20E-08
4552	420753.4	3734930	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
4553	421284.5	3734392	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.66E-08
4554	421284.4	3734382	4.58E-05	2.09E-04	4.58E-07	6.28E-06	2.86E-05	6.82E-08	3.85E-06	1.32E-05	1.58E-08
4555	421284.4	3734372	4.36E-05	2.00E-04	4.36E-07	5.98E-06	2.73E-05	6.50E-08	3.67E-06	1.25E-05	1.51E-08
4556	421284.3	3734363	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.61E-05	6.22E-08	3.52E-06	1.20E-05	1.44E-08
4557	421284.3	3734353	4.01E-05	1.84E-04	4.01E-07	5.50E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
4558	421284.3	3734343	3.85E-05	1.76E-04	3.85E-07	5.27E-06	2.41E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
4559	421284.2	3734333	3.69E-05	1.69E-04	3.69E-07	5.06E-06	2.31E-05	5.49E-08	3.10E-06	1.06E-05	1.27E-08
4560	421284.2	3734324	3.54E-05	1.62E-04	3.54E-07	4.85E-06	2.21E-05	5.27E-08	2.98E-06	1.02E-05	1.22E-08
4561	421284.2	3734314	3.40E-05	1.55E-04	3.40E-07	4.66E-06	2.13E-05	5.06E-08	2.86E-06	9.77E-06	1.18E-08
4562	421284.1	3734304	3.27E-05	1.50E-04	3.27E-07	4.49E-06	2.05E-05	4.87E-08	2.75E-06	9.40E-06	1.13E-08
4563	421284.1	3734295	3.15E-05	1.44E-04	3.15E-07	4.32E-06	1.97E-05	4.69E-08	2.65E-06	9.06E-06	1.09E-08
4564	421302.4	3734445	5.98E-05	2.73E-04	5.98E-07	8.20E-06	3.74E-05	8.90E-08	5.03E-06	1.72E-05	2.07E-08
4565	421298.7	3734454	6.35E-05	2.90E-04	6.35E-07	8.71E-06	3.97E-05	9.46E-08	5.34E-06	1.83E-05	2.20E-08
4566	421295	3734463	6.75E-05	3.09E-04	6.75E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
4567	421291.4	3734472	7.17E-05	3.28E-04	7.17E-07	9.83E-06	4.48E-05	1.07E-07	6.03E-06	2.06E-05	2.48E-08
4568	421287.7	3734481	7.62E-05	3.49E-04	7.62E-07	1.04E-05	4.77E-05	1.13E-07	6.41E-06	2.19E-05	2.63E-08
4569	421284	3734490	8.10E-05	3.71E-04	8.10E-07	1.11E-05	5.07E-05	1.21E-07	6.82E-06	2.33E-05	2.80E-08
4570	421239.9	3734597	1.62E-04	7.41E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.66E-05	5.60E-08
4571	421236.2	3734606	1.71E-04	7.82E-04	1.71E-06	2.34E-05	1.07E-04	2.55E-07	1.44E-05	4.91E-05	5.91E-08
4572	421232.5	3734615	1.80E-04	8.22E-04	1.80E-06	2.46E-05	1.12E-04	2.68E-07	1.51E-05	5.17E-05	6.21E-08
4573	421228.9	3734624	1.88E-04	8.61E-04	1.88E-06	2.58E-05	1.18E-04	2.80E-07	1.58E-05	5.41E-05	6.51E-08
4574	421225.2	3734633	1.97E-04	9.00E-04	1.97E-06	2.70E-05	1.23E-04	2.93E-07	1.66E-05	5.66E-05	6.81E-08
4575	421221.5	3734642	2.05E-04	9.39E-04	2.05E-06	2.82E-05	1.28E-04	3.06E-07	1.73E-05	5.90E-05	7.10E-08
4576	421217.8	3734651	2.14E-04	9.78E-04	2.14E-06	2.93E-05	1.34E-04	3.18E-07	1.80E-05	6.15E-05	7.39E-08
4577	421214.2	3734660	2.23E-04	1.02E-03	2.22E-06	3.05E-05	1.39E-04	3.31E-07	1.87E-05	6.39E-05	7.69E-08
4578	421210.5	3734669	2.31E-04	1.06E-03	2.31E-06	3.17E-05	1.45E-04	3.44E-07	1.95E-05	6.65E-05	7.99E-08
4579	421206.8	3734678	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.88E-05	8.27E-08
4580	421203.1	3734687	2.47E-04	1.13E-03	2.47E-06	3.39E-05	1.55E-04	3.68E-07	2.08E-05	7.11E-05	8.55E-08
4581	421199.5	3734696	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.33E-05	8.81E-08
4582	421195.8	3734705	2.63E-04	1.20E-03	2.63E-06	3.61E-05	1.65E-04	3.92E-07	2.21E-05	7.56E-05	9.10E-08
4583	421192.1	3734714	2.72E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.29E-05	7.81E-05	9.39E-08
4584	421188.4	3734723	2.80E-04	1.28E-03	2.79E-06	3.83E-05	1.75E-04	4.16E-07	2.35E-05	8.03E-05	9.66E-08
4585	421184.7	3734731	2.87E-04	1.31E-03	2.87E-06	3.93E-05	1.79E-04	4.27E-07	2.41E-05	8.25E-05	9.92E-08
4586	421181.1	3734740	2.94E-04	1.34E-03	2.94E-06	4.03E-05	1.84E-04	4.38E-07	2.47E-05	8.45E-05	1.02E-07
4587	421177.4	3734749	3.01E-04	1.38E-03	3.01E-06	4.12E-05	1.88E-04	4.48E-07	2.53E-05	8.64E-05	1.04E-07
4588	421173.7	3734758	3.07E-04	1.40E-03	3.07E-06	4.21E-05	1.92E-04	4.57E-07	2.58E-05	8.82E-05	1.06E-07
4589	421092.8	3734829	4.02E-04	1.84E-03	4.02E-06	5.51E-05	2.51E-04	5.98E-07	3.38E-05	1.15E-04	1.39E-07
4590	421083.9	3734833	4.12E-04	1.88E-03	4.12E-06	5.65E-05	2.58E-04	6.13E-07	3.47E-05	1.18E-04	1.42E-07
4591	421048.2	3734848	4.53E-04	2.07E-03	4.53E-06	6.21E-05	2.83E-04	6.75E-07	3.81E-05	1.30E-04	1.57E-07
4592	421039.2	3734851	4.61E-04	2.11E-03	4.61E-06	6.32E-05	2.88E-04	6.87E-07	3.88E-05	1.33E-04	1.59E-07
4593	421030.3	3734855	4.69E-04	2.14E-03	4.69E-06	6.43E-05	2.93E-04	6.98E-07	3.95E-05	1.35E-04	1.62E-07
4594	421021.4	3734859	4.76E-04	2.18E-03	4.76E-06	6.52E-05	2.98E-04	7.08E-07	4.00E-05	1.37E-04	1.64E-07
4595	420994.6	3734870	4.92E-04	2.25E-03	4.92E-06	6.74E-05	3.07E-04	7.32E-07	4.14E-05	1.41E-04	1.70E-07
4596	420985.6	3734874	4.95E-04	2.26E-03	4.94E-06	6.78E-05	3.09E-04	7.36E-07	4.16E-05	1.42E-04	1.71E-07
4597	420976.7	3734877	4.96E-04	2.27E-03	4.96E-06	6.80E-05	3.10E-04	7.39E-07	4.17E-05	1.43E-04	1.71E-07
4598	420967.8	3734881	4.96E-04	2.27E-03	4.96E-06	6.80E-05	3.10E-04	7.38E-07	4.17E-05	1.43E-04	1.71E-07

4599	420958.8	3734885	4.94E-04	2.26E-03	4.93E-06	6.77E-05	3.09E-04	7.35E-07	4.15E-05	1.42E-04	1.71E-07
4600	420949.9	3734888	4.89E-04	2.24E-03	4.89E-06	6.71E-05	3.06E-04	7.28E-07	4.12E-05	1.41E-04	1.69E-07
4601	420941	3734892	4.82E-04	2.21E-03	4.82E-06	6.61E-05	3.02E-04	7.18E-07	4.06E-05	1.39E-04	1.67E-07
4602	420932	3734896	4.73E-04	2.16E-03	4.73E-06	6.49E-05	2.96E-04	7.05E-07	3.98E-05	1.36E-04	1.64E-07
4603	420923.1	3734900	4.62E-04	2.11E-03	4.62E-06	6.34E-05	2.89E-04	6.88E-07	3.89E-05	1.33E-04	1.60E-07
4604	420914.2	3734903	4.49E-04	2.05E-03	4.49E-06	6.16E-05	2.81E-04	6.68E-07	3.78E-05	1.29E-04	1.55E-07
4605	420905.2	3734907	4.34E-04	1.99E-03	4.34E-06	5.95E-05	2.71E-04	6.46E-07	3.65E-05	1.25E-04	1.50E-07
4606	420896.3	3734911	4.17E-04	1.91E-03	4.17E-06	5.72E-05	2.61E-04	6.21E-07	3.51E-05	1.20E-04	1.44E-07
4607	420887.4	3734914	3.99E-04	1.82E-03	3.98E-06	5.47E-05	2.49E-04	5.93E-07	3.35E-05	1.15E-04	1.38E-07
4608	420878.4	3734918	3.79E-04	1.73E-03	3.79E-06	5.20E-05	2.37E-04	5.64E-07	3.19E-05	1.09E-04	1.31E-07
4609	420869.5	3734922	3.59E-04	1.64E-03	3.58E-06	4.92E-05	2.24E-04	5.34E-07	3.02E-05	1.03E-04	1.24E-07
4610	420860.6	3734925	3.38E-04	1.55E-03	3.38E-06	4.64E-05	2.11E-04	5.03E-07	2.85E-05	9.72E-05	1.17E-07
4611	420851.6	3734929	3.17E-04	1.45E-03	3.17E-06	4.35E-05	1.98E-04	4.72E-07	2.67E-05	9.12E-05	1.10E-07
4612	420842.7	3734933	2.97E-04	1.36E-03	2.96E-06	4.06E-05	1.85E-04	4.41E-07	2.49E-05	8.52E-05	1.02E-07
4613	420833.8	3734937	2.76E-04	1.26E-03	2.76E-06	3.78E-05	1.72E-04	4.11E-07	2.32E-05	7.92E-05	9.53E-08
4614	420824.8	3734940	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.34E-05	8.83E-08
4615	420815.9	3734944	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.48E-04	3.51E-07	1.99E-05	6.78E-05	8.15E-08
4616	420807	3734948	2.17E-04	9.94E-04	2.17E-06	2.98E-05	1.36E-04	3.24E-07	1.83E-05	6.25E-05	7.51E-08
4617	420798	3734951	2.00E-04	9.15E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
4618	420789.1	3734955	1.83E-04	8.39E-04	1.83E-06	2.51E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.34E-08
4619	420780.2	3734959	1.68E-04	7.67E-04	1.68E-06	2.30E-05	1.05E-04	2.50E-07	1.41E-05	4.82E-05	5.80E-08
4620	420771.3	3734963	1.53E-04	6.98E-04	1.53E-06	2.09E-05	9.54E-05	2.27E-07	1.28E-05	4.39E-05	5.28E-08
4621	420762.3	3734966	1.39E-04	6.34E-04	1.39E-06	1.90E-05	8.67E-05	2.07E-07	1.17E-05	3.99E-05	4.79E-08
4622	420753.4	3734970	1.26E-04	5.76E-04	1.26E-06	1.73E-05	7.88E-05	1.88E-07	1.06E-05	3.62E-05	4.35E-08
4623	421324.5	3734392	4.24E-05	1.94E-04	4.24E-07	5.81E-06	2.65E-05	6.31E-08	3.57E-06	1.22E-05	1.46E-08
4624	421324.4	3734382	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
4625	421324.4	3734372	3.88E-05	1.77E-04	3.87E-07	5.31E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
4626	421324.3	3734362	3.72E-05	1.70E-04	3.72E-07	5.10E-06	2.33E-05	5.54E-08	3.13E-06	1.07E-05	1.29E-08
4627	421324.3	3734353	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.01E-06	1.03E-05	1.23E-08
4628	421324.3	3734343	3.43E-05	1.57E-04	3.43E-07	4.70E-06	2.14E-05	5.10E-08	2.88E-06	9.85E-06	1.18E-08
4629	421324.2	3734333	3.29E-05	1.51E-04	3.29E-07	4.51E-06	2.06E-05	4.90E-08	2.77E-06	9.46E-06	1.14E-08
4630	421324.2	3734324	3.16E-05	1.45E-04	3.16E-07	4.34E-06	1.98E-05	4.71E-08	2.66E-06	9.09E-06	1.09E-08
4631	421324.2	3734314	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
4632	421324.1	3734304	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.82E-05	4.34E-08	2.45E-06	8.38E-06	1.01E-08
4633	421324.1	3734295	2.82E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
4634	421342.8	3734444	5.16E-05	2.36E-04	5.16E-07	7.08E-06	3.23E-05	7.68E-08	4.34E-06	1.48E-05	1.78E-08
4635	421339.1	3734453	5.45E-05	2.49E-04	5.45E-07	7.48E-06	3.41E-05	8.12E-08	4.59E-06	1.57E-05	1.88E-08
4636	421335.5	3734462	5.77E-05	2.64E-04	5.76E-07	7.90E-06	3.61E-05	8.58E-08	4.85E-06	1.66E-05	1.99E-08
4637	421331.9	3734471	6.10E-05	2.79E-04	6.10E-07	8.36E-06	3.81E-05	9.08E-08	5.13E-06	1.75E-05	2.11E-08
4638	421328.3	3734479	6.45E-05	2.95E-04	6.45E-07	8.85E-06	4.03E-05	9.61E-08	5.43E-06	1.85E-05	2.23E-08
4639	421324.7	3734488	6.83E-05	3.12E-04	6.83E-07	9.36E-06	4.27E-05	1.02E-07	5.75E-06	1.96E-05	2.36E-08
4640	421321.1	3734497	7.23E-05	3.30E-04	7.22E-07	9.91E-06	4.52E-05	1.08E-07	6.08E-06	2.08E-05	2.50E-08
4641	421277.7	3734603	1.37E-04	6.28E-04	1.37E-06	1.88E-05	8.58E-05	2.04E-07	1.15E-05	3.94E-05	4.74E-08
4642	421274.1	3734611	1.45E-04	6.61E-04	1.44E-06	1.98E-05	9.04E-05	2.15E-07	1.22E-05	4.15E-05	4.99E-08
4643	421270.4	3734620	1.52E-04	6.95E-04	1.52E-06	2.08E-05	9.50E-05	2.26E-07	1.28E-05	4.37E-05	5.25E-08
4644	421266.8	3734629	1.59E-04	7.28E-04	1.59E-06	2.18E-05	9.95E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
4645	421263.2	3734638	1.66E-04	7.61E-04	1.66E-06	2.28E-05	1.04E-04	2.48E-07	1.40E-05	4.78E-05	5.75E-08
4646	421259.6	3734647	1.74E-04	7.94E-04	1.74E-06	2.38E-05	1.09E-04	2.58E-07	1.46E-05	4.99E-05	6.00E-08
4647	421256	3734655	1.81E-04	8.26E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.19E-05	6.24E-08
4648	421252.4	3734664	1.87E-04	8.56E-04	1.87E-06	2.57E-05	1.17E-04	2.79E-07	1.57E-05	5.38E-05	6.47E-08
4649	421248.8	3734673	1.94E-04	8.85E-04	1.94E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.57E-05	6.69E-08
4650	421245.1	3734682	2.00E-04	9.15E-04	2.00E-06	2.74E-05	1.25E-04	2.98E-07	1.68E-05	5.75E-05	6.91E-08
4651	421241.5	3734691	2.06E-04	9.44E-04	2.06E-06	2.83E-05	1.29E-04	3.07E-07	1.74E-05	5.93E-05	7.13E-08
4652	421237.9	3734699	2.13E-04	9.72E-04	2.12E-06	2.91E-05	1.33E-04	3.16E-07	1.79E-05	6.11E-05	7.34E-08
4653	421234.3	3734708	2.18E-04	9.99E-04	2.18E-06	2.99E-05	1.37E-04	3.25E-07	1.84E-05	6.28E-05	7.55E-08
4654	421230.7	3734717	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.34E-07	1.89E-05	6.44E-05	7.75E-08
4655	421174.9	3734835	2.84E-04	1.30E-03	2.83E-06	3.89E-05	1.77E-04	4.22E-07	2.39E-05	8.15E-05	9.80E-08
4656	421166.1	3734839	2.91E-04	1.33E-03	2.91E-06	3.99E-05	1.82E-04	4.33E-07	2.45E-05	8.37E-05	1.01E-07
4657	421157.3	3734842	2.99E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07

4658	421131	3734853	3.22E-04	1.47E-03	3.22E-06	4.42E-05	2.01E-04	4.80E-07	2.71E-05	9.26E-05	1.11E-07
4659	421078.3	3734875	3.77E-04	1.73E-03	3.77E-06	5.17E-05	2.36E-04	5.62E-07	3.18E-05	1.08E-04	1.30E-07
4660	421069.5	3734879	3.86E-04	1.76E-03	3.86E-06	5.29E-05	2.41E-04	5.74E-07	3.25E-05	1.11E-04	1.33E-07
4661	421060.7	3734882	3.94E-04	1.80E-03	3.94E-06	5.40E-05	2.46E-04	5.86E-07	3.31E-05	1.13E-04	1.36E-07
4662	421051.9	3734886	4.02E-04	1.84E-03	4.01E-06	5.50E-05	2.51E-04	5.98E-07	3.38E-05	1.15E-04	1.39E-07
4663	421043.1	3734890	4.07E-04	1.86E-03	4.07E-06	5.59E-05	2.55E-04	6.07E-07	3.43E-05	1.17E-04	1.41E-07
4664	421034.3	3734893	4.12E-04	1.89E-03	4.12E-06	5.65E-05	2.58E-04	6.14E-07	3.47E-05	1.19E-04	1.43E-07
4665	421025.6	3734897	4.17E-04	1.91E-03	4.17E-06	5.71E-05	2.61E-04	6.20E-07	3.51E-05	1.20E-04	1.44E-07
4666	421016.8	3734901	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.25E-07	3.53E-05	1.21E-04	1.45E-07
4667	420990.4	3734912	4.22E-04	1.93E-03	4.22E-06	5.78E-05	2.64E-04	6.28E-07	3.55E-05	1.21E-04	1.46E-07
4668	420981.6	3734915	4.20E-04	1.92E-03	4.20E-06	5.76E-05	2.63E-04	6.25E-07	3.53E-05	1.21E-04	1.45E-07
4669	420972.8	3734919	4.17E-04	1.91E-03	4.17E-06	5.72E-05	2.61E-04	6.21E-07	3.51E-05	1.20E-04	1.44E-07
4670	420964.1	3734922	4.12E-04	1.89E-03	4.12E-06	5.65E-05	2.58E-04	6.14E-07	3.47E-05	1.19E-04	1.43E-07
4671	420955.3	3734926	4.06E-04	1.86E-03	4.06E-06	5.57E-05	2.54E-04	6.05E-07	3.42E-05	1.17E-04	1.40E-07
4672	420946.5	3734930	3.98E-04	1.82E-03	3.98E-06	5.46E-05	2.49E-04	5.93E-07	3.35E-05	1.14E-04	1.38E-07
4673	420937.7	3734933	3.89E-04	1.78E-03	3.89E-06	5.33E-05	2.43E-04	5.79E-07	3.27E-05	1.12E-04	1.34E-07
4674	420928.9	3734937	3.78E-04	1.73E-03	3.78E-06	5.18E-05	2.36E-04	5.63E-07	3.18E-05	1.09E-04	1.31E-07
4675	420920.1	3734941	3.65E-04	1.67E-03	3.65E-06	5.01E-05	2.28E-04	5.44E-07	3.07E-05	1.05E-04	1.26E-07
4676	420911.4	3734944	3.52E-04	1.61E-03	3.51E-06	4.82E-05	2.20E-04	5.23E-07	2.96E-05	1.01E-04	1.21E-07
4677	420902.6	3734948	3.37E-04	1.54E-03	3.36E-06	4.62E-05	2.10E-04	5.01E-07	2.83E-05	9.67E-05	1.16E-07
4678	420893.8	3734952	3.22E-04	1.47E-03	3.21E-06	4.41E-05	2.01E-04	4.79E-07	2.71E-05	9.24E-05	1.11E-07
4679	420885	3734955	3.06E-04	1.40E-03	3.06E-06	4.20E-05	1.91E-04	4.56E-07	2.58E-05	8.80E-05	1.06E-07
4680	420876.2	3734959	2.91E-04	1.33E-03	2.90E-06	3.98E-05	1.82E-04	4.32E-07	2.44E-05	8.35E-05	1.00E-07
4681	420867.4	3734963	2.75E-04	1.26E-03	2.74E-06	3.76E-05	1.72E-04	4.09E-07	2.31E-05	7.89E-05	9.49E-08
4682	420858.7	3734966	2.58E-04	1.18E-03	2.58E-06	3.54E-05	1.61E-04	3.84E-07	2.17E-05	7.42E-05	8.92E-08
4683	420849.9	3734970	2.42E-04	1.11E-03	2.42E-06	3.32E-05	1.51E-04	3.60E-07	2.03E-05	6.95E-05	8.36E-08
4684	420841.1	3734974	2.26E-04	1.03E-03	2.26E-06	3.10E-05	1.41E-04	3.36E-07	1.90E-05	6.49E-05	7.80E-08
4685	420832.3	3734977	2.10E-04	9.62E-04	2.10E-06	2.88E-05	1.32E-04	3.13E-07	1.77E-05	6.05E-05	7.27E-08
4686	420823.5	3734981	1.95E-04	8.94E-04	1.95E-06	2.68E-05	1.22E-04	2.91E-07	1.64E-05	5.62E-05	6.75E-08
4687	420814.7	3734985	1.81E-04	8.27E-04	1.81E-06	2.48E-05	1.13E-04	2.69E-07	1.52E-05	5.20E-05	6.25E-08
4688	420805.9	3734988	1.67E-04	7.63E-04	1.67E-06	2.29E-05	1.04E-04	2.49E-07	1.40E-05	4.80E-05	5.77E-08
4689	420797.2	3734992	1.54E-04	7.03E-04	1.54E-06	2.11E-05	9.62E-05	2.29E-07	1.29E-05	4.42E-05	5.32E-08
4690	420788.4	3734995	1.42E-04	6.47E-04	1.42E-06	1.94E-05	8.85E-05	2.11E-07	1.19E-05	4.07E-05	4.89E-08
4691	420779.6	3734999	1.30E-04	5.96E-04	1.30E-06	1.79E-05	8.15E-05	1.94E-07	1.10E-05	3.74E-05	4.50E-08
4692	420770.8	3735003	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.46E-05	1.78E-07	1.00E-05	3.43E-05	4.12E-08
4693	420762	3735006	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.83E-05	1.63E-07	9.19E-06	3.14E-05	3.77E-08
4694	420753.2	3735010	9.99E-05	4.57E-04	9.98E-07	1.37E-05	6.25E-05	1.49E-07	8.40E-06	2.87E-05	3.45E-08
4695	421364.5	3734391	3.78E-05	1.73E-04	3.77E-07	5.18E-06	2.36E-05	5.62E-08	3.18E-06	1.08E-05	1.30E-08
4696	421364.4	3734382	3.62E-05	1.65E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.04E-06	1.04E-05	1.25E-08
4697	421364.4	3734372	3.47E-05	1.59E-04	3.47E-07	4.76E-06	2.17E-05	5.17E-08	2.92E-06	9.97E-06	1.20E-08
4698	421364.3	3734362	3.33E-05	1.52E-04	3.32E-07	4.56E-06	2.08E-05	4.95E-08	2.80E-06	9.56E-06	1.15E-08
4699	421364.3	3734353	3.19E-05	1.46E-04	3.19E-07	4.37E-06	1.99E-05	4.75E-08	2.68E-06	9.16E-06	1.10E-08
4700	421364.3	3734343	3.06E-05	1.40E-04	3.06E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.79E-06	1.06E-08
4701	421364.2	3734333	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.38E-08	2.47E-06	8.45E-06	1.02E-08
4702	421364.2	3734323	2.83E-05	1.29E-04	2.83E-07	3.87E-06	1.77E-05	4.21E-08	2.38E-06	8.12E-06	9.77E-09
4703	421364.2	3734314	2.72E-05	1.24E-04	2.72E-07	3.73E-06	1.70E-05	4.05E-08	2.29E-06	7.82E-06	9.40E-09
4704	421364.1	3734304	2.62E-05	1.20E-04	2.62E-07	3.60E-06	1.64E-05	3.91E-08	2.21E-06	7.54E-06	9.07E-09
4705	421364.1	3734294	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.78E-08	2.13E-06	7.29E-06	8.76E-09
4706	421382.7	3734444	4.53E-05	2.07E-04	4.53E-07	6.21E-06	2.83E-05	6.74E-08	3.81E-06	1.30E-05	1.57E-08
4707	421379	3734453	4.77E-05	2.18E-04	4.77E-07	6.54E-06	2.98E-05	7.10E-08	4.01E-06	1.37E-05	1.65E-08
4708	421375.4	3734462	5.03E-05	2.30E-04	5.02E-07	6.89E-06	3.14E-05	7.48E-08	4.23E-06	1.44E-05	1.74E-08
4709	421371.8	3734471	5.30E-05	2.42E-04	5.30E-07	7.26E-06	3.31E-05	7.89E-08	4.46E-06	1.52E-05	1.83E-08
4710	421331.8	3734568	9.32E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.84E-06	2.68E-05	3.22E-08
4711	421328.2	3734577	9.76E-05	4.46E-04	9.76E-07	1.34E-05	6.10E-05	1.45E-07	8.21E-06	2.81E-05	3.37E-08
4712	421324.6	3734586	1.02E-04	4.68E-04	1.02E-06	1.40E-05	6.40E-05	1.52E-07	8.62E-06	2.94E-05	3.54E-08
4713	421320.9	3734594	1.07E-04	4.91E-04	1.07E-06	1.47E-05	6.72E-05	1.60E-07	9.04E-06	3.09E-05	3.71E-08
4714	421317.3	3734603	1.13E-04	5.15E-04	1.13E-06	1.54E-05	7.05E-05	1.68E-07	9.48E-06	3.24E-05	3.89E-08
4715	421313.7	3734612	1.18E-04	5.41E-04	1.18E-06	1.62E-05	7.39E-05	1.76E-07	9.95E-06	3.40E-05	4.09E-08
4716	421310	3734621	1.24E-04	5.69E-04	1.24E-06	1.70E-05	7.78E-05	1.85E-07	1.05E-05	3.57E-05	4.30E-08

4717	421306.4	3734630	1.31E-04	5.97E-04	1.31E-06	1.79E-05	8.17E-05	1.94E-07	1.10E-05	3.75E-05	4.51E-08
4718	421302.8	3734639	1.37E-04	6.26E-04	1.37E-06	1.88E-05	8.57E-05	2.04E-07	1.15E-05	3.94E-05	4.73E-08
4719	421281	3734692	1.73E-04	7.90E-04	1.73E-06	2.37E-05	1.08E-04	2.57E-07	1.45E-05	4.97E-05	5.97E-08
4720	421277.4	3734700	1.78E-04	8.15E-04	1.78E-06	2.44E-05	1.11E-04	2.65E-07	1.50E-05	5.12E-05	6.16E-08
4721	421273.7	3734709	1.83E-04	8.39E-04	1.83E-06	2.52E-05	1.15E-04	2.73E-07	1.54E-05	5.27E-05	6.34E-08
4722	421270.1	3734718	1.89E-04	8.63E-04	1.89E-06	2.59E-05	1.18E-04	2.81E-07	1.59E-05	5.42E-05	6.52E-08
4723	421266.5	3734727	1.94E-04	8.85E-04	1.94E-06	2.65E-05	1.21E-04	2.88E-07	1.63E-05	5.56E-05	6.69E-08
4724	421262.8	3734736	1.98E-04	9.07E-04	1.98E-06	2.72E-05	1.24E-04	2.95E-07	1.67E-05	5.70E-05	6.86E-08
4725	421259.2	3734745	2.03E-04	9.28E-04	2.03E-06	2.78E-05	1.27E-04	3.02E-07	1.71E-05	5.83E-05	7.01E-08
4726	421255.6	3734753	2.07E-04	9.48E-04	2.07E-06	2.84E-05	1.30E-04	3.09E-07	1.74E-05	5.96E-05	7.16E-08
4727	421203.2	3734863	2.45E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.03E-05	8.45E-08
4728	421194.4	3734867	2.51E-04	1.15E-03	2.51E-06	3.44E-05	1.57E-04	3.73E-07	2.11E-05	7.20E-05	8.66E-08
4729	421185.5	3734871	2.57E-04	1.17E-03	2.56E-06	3.52E-05	1.60E-04	3.82E-07	2.16E-05	7.37E-05	8.86E-08
4730	421159.1	3734882	2.74E-04	1.25E-03	2.74E-06	3.76E-05	1.71E-04	4.08E-07	2.31E-05	7.88E-05	9.47E-08
4731	421150.3	3734885	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.68E-08
4732	421141.4	3734889	2.86E-04	1.31E-03	2.86E-06	3.92E-05	1.79E-04	4.26E-07	2.41E-05	8.22E-05	9.89E-08
4733	421088.5	3734911	3.31E-04	1.51E-03	3.31E-06	4.54E-05	2.07E-04	4.93E-07	2.79E-05	9.52E-05	1.14E-07
4734	421079.7	3734914	3.39E-04	1.55E-03	3.39E-06	4.65E-05	2.12E-04	5.05E-07	2.85E-05	9.75E-05	1.17E-07
4735	421070.9	3734918	3.45E-04	1.58E-03	3.45E-06	4.73E-05	2.16E-04	5.14E-07	2.90E-05	9.91E-05	1.19E-07
4736	421062	3734922	3.50E-04	1.60E-03	3.50E-06	4.80E-05	2.19E-04	5.21E-07	2.95E-05	1.01E-04	1.21E-07
4737	421053.2	3734925	3.55E-04	1.62E-03	3.55E-06	4.86E-05	2.22E-04	5.28E-07	2.99E-05	1.02E-04	1.23E-07
4738	421044.4	3734929	3.58E-04	1.64E-03	3.58E-06	4.91E-05	2.24E-04	5.33E-07	3.01E-05	1.03E-04	1.24E-07
4739	421035.6	3734933	3.61E-04	1.65E-03	3.61E-06	4.94E-05	2.26E-04	5.37E-07	3.03E-05	1.04E-04	1.25E-07
4740	421026.8	3734936	3.62E-04	1.66E-03	3.62E-06	4.97E-05	2.27E-04	5.39E-07	3.05E-05	1.04E-04	1.25E-07
4741	421017.9	3734940	3.63E-04	1.66E-03	3.63E-06	4.97E-05	2.27E-04	5.40E-07	3.05E-05	1.04E-04	1.25E-07
4742	420991.5	3734951	3.56E-04	1.63E-03	3.56E-06	4.89E-05	2.23E-04	5.31E-07	3.00E-05	1.02E-04	1.23E-07
4743	420982.6	3734955	3.52E-04	1.61E-03	3.52E-06	4.83E-05	2.20E-04	5.25E-07	2.97E-05	1.01E-04	1.22E-07
4744	420973.8	3734958	3.47E-04	1.59E-03	3.47E-06	4.76E-05	2.17E-04	5.17E-07	2.92E-05	9.98E-05	1.20E-07
4745	420965	3734962	3.41E-04	1.56E-03	3.41E-06	4.67E-05	2.13E-04	5.07E-07	2.87E-05	9.79E-05	1.18E-07
4746	420956.2	3734966	3.33E-04	1.52E-03	3.33E-06	4.57E-05	2.08E-04	4.96E-07	2.80E-05	9.57E-05	1.15E-07
4747	420947.4	3734969	3.24E-04	1.48E-03	3.24E-06	4.45E-05	2.03E-04	4.83E-07	2.73E-05	9.32E-05	1.12E-07
4748	420938.5	3734973	3.15E-04	1.44E-03	3.14E-06	4.31E-05	1.97E-04	4.68E-07	2.65E-05	9.04E-05	1.09E-07
4749	420929.7	3734977	3.04E-04	1.39E-03	3.04E-06	4.17E-05	1.90E-04	4.53E-07	2.56E-05	8.74E-05	1.05E-07
4750	420920.9	3734980	2.92E-04	1.34E-03	2.92E-06	4.01E-05	1.83E-04	4.35E-07	2.46E-05	8.40E-05	1.01E-07
4751	420912.1	3734984	2.80E-04	1.28E-03	2.80E-06	3.84E-05	1.75E-04	4.17E-07	2.36E-05	8.05E-05	9.68E-08
4752	420903.2	3734988	2.67E-04	1.22E-03	2.67E-06	3.67E-05	1.67E-04	3.98E-07	2.25E-05	7.68E-05	9.24E-08
4753	420894.4	3734991	2.55E-04	1.17E-03	2.55E-06	3.49E-05	1.59E-04	3.79E-07	2.14E-05	7.32E-05	8.81E-08
4754	420885.6	3734995	2.42E-04	1.11E-03	2.42E-06	3.32E-05	1.51E-04	3.61E-07	2.04E-05	6.96E-05	8.37E-08
4755	420876.8	3734999	2.30E-04	1.05E-03	2.29E-06	3.15E-05	1.43E-04	3.42E-07	1.93E-05	6.59E-05	7.93E-08
4756	420868	3735002	2.17E-04	9.90E-04	2.16E-06	2.97E-05	1.35E-04	3.22E-07	1.82E-05	6.22E-05	7.48E-08
4757	420859.1	3735006	2.03E-04	9.30E-04	2.03E-06	2.79E-05	1.27E-04	3.03E-07	1.71E-05	5.84E-05	7.03E-08
4758	420850.3	3735010	1.90E-04	8.70E-04	1.90E-06	2.61E-05	1.19E-04	2.83E-07	1.60E-05	5.47E-05	6.58E-08
4759	420841.5	3735013	1.78E-04	8.12E-04	1.78E-06	2.43E-05	1.11E-04	2.64E-07	1.49E-05	5.10E-05	6.14E-08
4760	420832.7	3735017	1.65E-04	7.56E-04	1.65E-06	2.27E-05	1.03E-04	2.46E-07	1.39E-05	4.75E-05	5.71E-08
4761	420823.9	3735021	1.53E-04	7.01E-04	1.53E-06	2.10E-05	9.59E-05	2.28E-07	1.29E-05	4.41E-05	5.30E-08
4762	420815	3735024	1.42E-04	6.50E-04	1.42E-06	1.95E-05	8.88E-05	2.11E-07	1.20E-05	4.08E-05	4.91E-08
4763	420770.9	3735043	9.57E-05	4.38E-04	9.57E-07	1.31E-05	5.98E-05	1.42E-07	8.05E-06	2.75E-05	3.31E-08
4764	420762.1	3735046	8.80E-05	4.02E-04	8.79E-07	1.21E-05	5.50E-05	1.31E-07	7.40E-06	2.53E-05	3.04E-08
4765	420753.3	3735050	8.09E-05	3.70E-04	8.08E-07	1.11E-05	5.06E-05	1.20E-07	6.80E-06	2.32E-05	2.79E-08
4766	421404.5	3734391	3.36E-05	1.54E-04	3.36E-07	4.61E-06	2.10E-05	5.00E-08	2.83E-06	9.66E-06	1.16E-08
4767	421404.4	3734382	3.20E-05	1.46E-04	3.20E-07	4.39E-06	2.00E-05	4.77E-08	2.69E-06	9.20E-06	1.11E-08
4768	421404.4	3734372	3.05E-05	1.40E-04	3.05E-07	4.19E-06	1.91E-05	4.55E-08	2.57E-06	8.78E-06	1.06E-08
4769	421404.3	3734362	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
4770	421404.3	3734352	2.83E-05	1.30E-04	2.83E-07	3.88E-06	1.77E-05	4.22E-08	2.38E-06	8.14E-06	9.79E-09
4771	421404.3	3734343	2.73E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
4772	421404.2	3734333	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.22E-06	7.57E-06	9.10E-09
4773	421404.2	3734323	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.77E-08	2.13E-06	7.29E-06	8.76E-09
4774	421404.2	3734314	2.44E-05	1.12E-04	2.44E-07	3.35E-06	1.53E-05	3.64E-08	2.06E-06	7.02E-06	8.44E-09
4775	421404.1	3734304	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.51E-08	1.99E-06	6.78E-06	8.16E-09

4776	421404.1	3734294	2.28E-05	1.04E-04	2.28E-07	3.13E-06	1.43E-05	3.40E-08	1.92E-06	6.56E-06	7.89E-09
4777	421422.6	3734444	4.01E-05	1.83E-04	4.01E-07	5.50E-06	2.51E-05	5.97E-08	3.37E-06	1.15E-05	1.39E-08
4778	421418.9	3734453	4.21E-05	1.92E-04	4.21E-07	5.77E-06	2.63E-05	6.27E-08	3.54E-06	1.21E-05	1.45E-08
4779	421415.3	3734462	4.42E-05	2.02E-04	4.42E-07	6.06E-06	2.76E-05	6.58E-08	3.72E-06	1.27E-05	1.53E-08
4780	421411.6	3734471	4.65E-05	2.13E-04	4.65E-07	6.37E-06	2.91E-05	6.92E-08	3.91E-06	1.34E-05	1.61E-08
4781	421408	3734480	4.88E-05	2.23E-04	4.88E-07	6.69E-06	3.05E-05	7.27E-08	4.11E-06	1.40E-05	1.69E-08
4782	421404.4	3734489	5.12E-05	2.34E-04	5.12E-07	7.02E-06	3.20E-05	7.63E-08	4.31E-06	1.47E-05	1.77E-08
4783	421400.7	3734498	5.39E-05	2.46E-04	5.38E-07	7.38E-06	3.37E-05	8.02E-08	4.53E-06	1.55E-05	1.86E-08
4784	421367.9	3734577	8.26E-05	3.78E-04	8.26E-07	1.13E-05	5.17E-05	1.23E-07	6.95E-06	2.37E-05	2.86E-08
4785	421364.3	3734586	8.66E-05	3.96E-04	8.65E-07	1.19E-05	5.41E-05	1.29E-07	7.28E-06	2.49E-05	2.99E-08
4786	421360.6	3734595	9.08E-05	4.15E-04	9.08E-07	1.24E-05	5.68E-05	1.35E-07	7.64E-06	2.61E-05	3.14E-08
4787	421357	3734604	9.52E-05	4.35E-04	9.51E-07	1.30E-05	5.95E-05	1.42E-07	8.01E-06	2.73E-05	3.29E-08
4788	421353.3	3734613	9.97E-05	4.56E-04	9.97E-07	1.37E-05	6.23E-05	1.48E-07	8.39E-06	2.86E-05	3.45E-08
4789	421349.7	3734622	1.05E-04	4.78E-04	1.04E-06	1.43E-05	6.53E-05	1.56E-07	8.79E-06	3.00E-05	3.61E-08
4790	421346	3734631	1.09E-04	5.00E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.14E-05	3.78E-08
4791	421342.4	3734639	1.14E-04	5.23E-04	1.14E-06	1.57E-05	7.16E-05	1.70E-07	9.63E-06	3.29E-05	3.96E-08
4792	421338.8	3734648	1.19E-04	5.46E-04	1.19E-06	1.64E-05	7.47E-05	1.78E-07	1.00E-05	3.43E-05	4.13E-08
4793	421335.1	3734657	1.25E-04	5.69E-04	1.24E-06	1.71E-05	7.78E-05	1.85E-07	1.05E-05	3.58E-05	4.30E-08
4794	421331.5	3734666	1.30E-04	5.93E-04	1.30E-06	1.78E-05	8.11E-05	1.93E-07	1.09E-05	3.73E-05	4.48E-08
4795	421327.8	3734675	1.35E-04	6.17E-04	1.35E-06	1.85E-05	8.44E-05	2.01E-07	1.14E-05	3.88E-05	4.66E-08
4796	421324.2	3734684	1.40E-04	6.40E-04	1.40E-06	1.92E-05	8.76E-05	2.08E-07	1.18E-05	4.02E-05	4.84E-08
4797	421320.5	3734693	1.45E-04	6.63E-04	1.45E-06	1.99E-05	9.07E-05	2.16E-07	1.22E-05	4.17E-05	5.01E-08
4798	421316.9	3734702	1.50E-04	6.86E-04	1.50E-06	2.06E-05	9.38E-05	2.23E-07	1.26E-05	4.31E-05	5.18E-08
4799	421313.2	3734710	1.55E-04	7.07E-04	1.54E-06	2.12E-05	9.66E-05	2.30E-07	1.30E-05	4.44E-05	5.34E-08
4800	421309.6	3734719	1.59E-04	7.27E-04	1.59E-06	2.18E-05	9.94E-05	2.37E-07	1.34E-05	4.57E-05	5.50E-08
4801	421306	3734728	1.63E-04	7.47E-04	1.63E-06	2.24E-05	1.02E-04	2.43E-07	1.37E-05	4.70E-05	5.65E-08
4802	421302.3	3734737	1.68E-04	7.66E-04	1.67E-06	2.30E-05	1.05E-04	2.49E-07	1.41E-05	4.81E-05	5.79E-08
4803	421231.5	3734891	2.13E-04	9.75E-04	2.13E-06	2.92E-05	1.33E-04	3.17E-07	1.79E-05	6.13E-05	7.37E-08
4804	421222.6	3734895	2.19E-04	9.99E-04	2.18E-06	3.00E-05	1.37E-04	3.25E-07	1.84E-05	6.28E-05	7.55E-08
4805	421213.8	3734899	2.24E-04	1.02E-03	2.24E-06	3.07E-05	1.40E-04	3.33E-07	1.88E-05	6.43E-05	7.74E-08
4806	421187.2	3734910	2.39E-04	1.09E-03	2.39E-06	3.28E-05	1.50E-04	3.56E-07	2.01E-05	6.88E-05	8.27E-08
4807	421178.4	3734913	2.44E-04	1.12E-03	2.44E-06	3.35E-05	1.53E-04	3.64E-07	2.06E-05	7.02E-05	8.45E-08
4808	421169.5	3734917	2.49E-04	1.14E-03	2.49E-06	3.42E-05	1.56E-04	3.71E-07	2.10E-05	7.17E-05	8.62E-08
4809	421134.1	3734932	2.71E-04	1.24E-03	2.71E-06	3.72E-05	1.70E-04	4.04E-07	2.28E-05	7.79E-05	9.37E-08
4810	421125.2	3734936	2.77E-04	1.27E-03	2.77E-06	3.80E-05	1.73E-04	4.13E-07	2.33E-05	7.97E-05	9.58E-08
4811	421089.8	3734950	2.98E-04	1.36E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.57E-05	1.03E-07
4812	421081	3734954	3.02E-04	1.38E-03	3.02E-06	4.14E-05	1.89E-04	4.50E-07	2.54E-05	8.69E-05	1.04E-07
4813	421072.1	3734958	3.05E-04	1.40E-03	3.05E-06	4.19E-05	1.91E-04	4.55E-07	2.57E-05	8.77E-05	1.06E-07
4814	421063.2	3734961	3.08E-04	1.41E-03	3.07E-06	4.22E-05	1.92E-04	4.58E-07	2.59E-05	8.84E-05	1.06E-07
4815	421054.4	3734965	3.09E-04	1.41E-03	3.09E-06	4.24E-05	1.93E-04	4.60E-07	2.60E-05	8.88E-05	1.07E-07
4816	421045.5	3734969	3.10E-04	1.42E-03	3.10E-06	4.25E-05	1.94E-04	4.62E-07	2.61E-05	8.91E-05	1.07E-07
4817	421036.7	3734972	3.11E-04	1.42E-03	3.11E-06	4.26E-05	1.94E-04	4.62E-07	2.61E-05	8.93E-05	1.07E-07
4818	421027.8	3734976	3.10E-04	1.42E-03	3.10E-06	4.25E-05	1.94E-04	4.62E-07	2.61E-05	8.92E-05	1.07E-07
4819	421019	3734980	3.09E-04	1.41E-03	3.09E-06	4.23E-05	1.93E-04	4.60E-07	2.60E-05	8.87E-05	1.07E-07
4820	420992.4	3734991	2.99E-04	1.37E-03	2.98E-06	4.09E-05	1.87E-04	4.44E-07	2.51E-05	8.58E-05	1.03E-07
4821	420983.5	3734994	2.93E-04	1.34E-03	2.93E-06	4.02E-05	1.83E-04	4.37E-07	2.47E-05	8.43E-05	1.01E-07
4822	420974.7	3734998	2.87E-04	1.31E-03	2.87E-06	3.94E-05	1.80E-04	4.28E-07	2.42E-05	8.26E-05	9.93E-08
4823	420965.8	3735002	2.81E-04	1.28E-03	2.80E-06	3.85E-05	1.75E-04	4.18E-07	2.36E-05	8.06E-05	9.69E-08
4824	420957	3735005	2.73E-04	1.25E-03	2.73E-06	3.74E-05	1.71E-04	4.06E-07	2.30E-05	7.84E-05	9.43E-08
4825	420948.1	3735009	2.64E-04	1.21E-03	2.64E-06	3.62E-05	1.65E-04	3.93E-07	2.22E-05	7.59E-05	9.13E-08
4826	420939.3	3735013	2.55E-04	1.17E-03	2.55E-06	3.50E-05	1.60E-04	3.80E-07	2.15E-05	7.33E-05	8.82E-08
4827	420930.4	3735016	2.46E-04	1.12E-03	2.45E-06	3.37E-05	1.54E-04	3.66E-07	2.07E-05	7.06E-05	8.49E-08
4828	420921.6	3735020	2.36E-04	1.08E-03	2.36E-06	3.23E-05	1.47E-04	3.51E-07	1.98E-05	6.77E-05	8.14E-08
4829	420868.4	3735042	1.72E-04	7.88E-04	1.72E-06	2.36E-05	1.08E-04	2.57E-07	1.45E-05	4.96E-05	5.96E-08
4830	420859.6	3735046	1.62E-04	7.39E-04	1.62E-06	2.22E-05	1.01E-04	2.41E-07	1.36E-05	4.64E-05	5.59E-08
4831	420850.7	3735050	1.51E-04	6.91E-04	1.51E-06	2.07E-05	9.44E-05	2.25E-07	1.27E-05	4.34E-05	5.22E-08
4832	420841.9	3735053	1.41E-04	6.44E-04	1.41E-06	1.93E-05	8.81E-05	2.10E-07	1.18E-05	4.05E-05	4.87E-08
4833	420833	3735057	1.31E-04	6.00E-04	1.31E-06	1.80E-05	8.21E-05	1.95E-07	1.10E-05	3.77E-05	4.54E-08
4834	420779.9	3735079	8.38E-05	3.83E-04	8.37E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.89E-08

4835	420771	3735083	7.72E-05	3.53E-04	7.72E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4836	420762.2	3735086	7.12E-05	3.25E-04	7.11E-07	9.76E-06	4.45E-05	1.06E-07	5.99E-06	2.05E-05	2.46E-08
4837	421444.5	3734391	3.03E-05	1.39E-04	3.03E-07	4.16E-06	1.90E-05	4.51E-08	2.55E-06	8.71E-06	1.05E-08
4838	421444.4	3734381	2.92E-05	1.33E-04	2.92E-07	4.00E-06	1.82E-05	4.34E-08	2.45E-06	8.38E-06	1.01E-08
4839	421444.4	3734372	2.80E-05	1.28E-04	2.80E-07	3.84E-06	1.75E-05	4.17E-08	2.36E-06	8.05E-06	9.68E-09
4840	421444.3	3734362	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
4841	421444.3	3734352	2.59E-05	1.18E-04	2.59E-07	3.55E-06	1.62E-05	3.86E-08	2.18E-06	7.45E-06	8.95E-09
4842	421444.3	3734343	2.49E-05	1.14E-04	2.49E-07	3.42E-06	1.56E-05	3.71E-08	2.10E-06	7.17E-06	8.62E-09
4843	421444.2	3734333	2.40E-05	1.10E-04	2.40E-07	3.29E-06	1.50E-05	3.58E-08	2.02E-06	6.90E-06	8.30E-09
4844	421444.2	3734323	2.32E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.45E-08	1.95E-06	6.65E-06	8.00E-09
4845	421444.2	3734313	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.40E-05	3.32E-08	1.88E-06	6.42E-06	7.72E-09
4846	421444.1	3734304	2.16E-05	9.89E-05	2.16E-07	2.97E-06	1.35E-05	3.22E-08	1.82E-06	6.22E-06	7.48E-09
4847	421444.1	3734294	2.10E-05	9.61E-05	2.10E-07	2.88E-06	1.31E-05	3.13E-08	1.77E-06	6.04E-06	7.26E-09
4848	420761.4	3734252	1.36E-04	6.23E-04	1.36E-06	1.87E-05	8.52E-05	2.03E-07	1.15E-05	3.91E-05	4.71E-08
4849	420763.1	3734242	1.23E-04	5.63E-04	1.23E-06	1.69E-05	7.69E-05	1.83E-07	1.04E-05	3.54E-05	4.25E-08
4850	420776.8	3734250	1.34E-04	6.11E-04	1.34E-06	1.83E-05	8.35E-05	1.99E-07	1.12E-05	3.84E-05	4.62E-08
4851	420764.9	3734232	1.12E-04	5.11E-04	1.12E-06	1.53E-05	6.99E-05	1.66E-07	9.40E-06	3.21E-05	3.86E-08
4852	420778.3	3734240	1.21E-04	5.52E-04	1.21E-06	1.65E-05	7.55E-05	1.80E-07	1.02E-05	3.47E-05	4.17E-08
4853	420791.6	3734248	1.30E-04	5.92E-04	1.30E-06	1.78E-05	8.10E-05	1.93E-07	1.09E-05	3.72E-05	4.48E-08
4854	420800.9	3734260	1.44E-04	6.57E-04	1.44E-06	1.97E-05	8.98E-05	2.14E-07	1.21E-05	4.13E-05	4.96E-08
4855	420767.9	3734223	1.03E-04	4.69E-04	1.02E-06	1.41E-05	6.41E-05	1.53E-07	8.63E-06	2.95E-05	3.54E-08
4856	420783.2	3734232	1.12E-04	5.10E-04	1.12E-06	1.53E-05	6.97E-05	1.66E-07	9.39E-06	3.21E-05	3.86E-08
4857	420798.4	3734241	1.20E-04	5.51E-04	1.20E-06	1.65E-05	7.53E-05	1.79E-07	1.01E-05	3.46E-05	4.16E-08
4858	420809	3734254	1.35E-04	6.15E-04	1.35E-06	1.84E-05	8.41E-05	2.00E-07	1.13E-05	3.87E-05	4.65E-08
4859	420769.7	3734213	9.37E-05	4.29E-04	9.37E-07	1.29E-05	5.86E-05	1.40E-07	7.89E-06	2.69E-05	3.24E-08
4860	420784.4	3734222	1.01E-04	4.64E-04	1.01E-06	1.39E-05	6.34E-05	1.51E-07	8.54E-06	2.92E-05	3.51E-08
4861	420799.1	3734231	1.09E-04	4.99E-04	1.09E-06	1.50E-05	6.82E-05	1.62E-07	9.18E-06	3.13E-05	3.77E-08
4862	420771.5	3734203	8.60E-05	3.93E-04	8.60E-07	1.18E-05	5.38E-05	1.28E-07	7.24E-06	2.47E-05	2.97E-08
4863	420785.8	3734212	9.27E-05	4.24E-04	9.26E-07	1.27E-05	5.80E-05	1.38E-07	7.80E-06	2.66E-05	3.20E-08
4864	420800.1	3734220	9.93E-05	4.54E-04	9.93E-07	1.36E-05	6.21E-05	1.48E-07	8.36E-06	2.85E-05	3.43E-08
4865	420814.4	3734229	1.06E-04	4.83E-04	1.06E-06	1.45E-05	6.61E-05	1.57E-07	8.89E-06	3.04E-05	3.65E-08
4866	420776	3734184	7.35E-05	3.36E-04	7.34E-07	1.01E-05	4.59E-05	1.09E-07	6.18E-06	2.11E-05	2.54E-08
4867	420791.3	3734193	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.73E-08
4868	420806.5	3734202	8.48E-05	3.88E-04	8.47E-07	1.16E-05	5.30E-05	1.26E-07	7.13E-06	2.44E-05	2.93E-08
4869	420821.8	3734211	9.03E-05	4.13E-04	9.03E-07	1.24E-05	5.65E-05	1.34E-07	7.60E-06	2.60E-05	3.12E-08
4870	420846	3734246	1.16E-04	5.30E-04	1.16E-06	1.59E-05	7.25E-05	1.73E-07	9.75E-06	3.33E-05	4.01E-08
4871	420794.3	3734173	6.75E-05	3.09E-04	6.74E-07	9.25E-06	4.22E-05	1.00E-07	5.68E-06	1.94E-05	2.33E-08
4872	420808.8	3734182	7.19E-05	3.29E-04	7.18E-07	9.85E-06	4.49E-05	1.07E-07	6.05E-06	2.07E-05	2.48E-08
4873	420823.4	3734190	7.62E-05	3.49E-04	7.62E-07	1.04E-05	4.77E-05	1.13E-07	6.41E-06	2.19E-05	2.63E-08
4874	420855.4	3734216	8.93E-05	4.08E-04	8.92E-07	1.22E-05	5.58E-05	1.33E-07	7.51E-06	2.56E-05	3.08E-08
4875	420861.1	3734232	1.00E-04	4.57E-04	9.99E-07	1.37E-05	6.25E-05	1.49E-07	8.41E-06	2.87E-05	3.46E-08
4876	420866.9	3734248	1.12E-04	5.12E-04	1.12E-06	1.53E-05	7.00E-05	1.67E-07	9.42E-06	3.22E-05	3.87E-08
4877	420784.1	3734145	5.49E-05	2.51E-04	5.49E-07	7.53E-06	3.43E-05	8.18E-08	4.62E-06	1.58E-05	1.90E-08
4878	420829.9	3734172	6.63E-05	3.03E-04	6.62E-07	9.08E-06	4.14E-05	9.86E-08	5.57E-06	1.90E-05	2.29E-08
4879	420860.4	3734191	7.33E-05	3.35E-04	7.32E-07	1.00E-05	4.58E-05	1.09E-07	6.17E-06	2.11E-05	2.53E-08
4880	420871	3734204	7.91E-05	3.62E-04	7.91E-07	1.08E-05	4.95E-05	1.18E-07	6.66E-06	2.27E-05	2.73E-08
4881	420874	3734212	8.36E-05	3.82E-04	8.36E-07	1.15E-05	5.23E-05	1.24E-07	7.03E-06	2.40E-05	2.89E-08
4882	420880	3734229	9.33E-05	4.26E-04	9.32E-07	1.28E-05	5.83E-05	1.39E-07	7.85E-06	2.68E-05	3.22E-08
4883	420886	3734246	1.04E-04	4.75E-04	1.04E-06	1.42E-05	6.49E-05	1.55E-07	8.74E-06	2.98E-05	3.59E-08
4884	420889	3734254	1.09E-04	5.01E-04	1.09E-06	1.50E-05	6.84E-05	1.63E-07	9.21E-06	3.15E-05	3.78E-08
4885	420787.9	3734125	4.81E-05	2.20E-04	4.81E-07	6.60E-06	3.01E-05	7.16E-08	4.05E-06	1.38E-05	1.66E-08
4886	420802.6	3734134	5.11E-05	2.34E-04	5.11E-07	7.01E-06	3.20E-05	7.61E-08	4.30E-06	1.47E-05	1.77E-08
4887	420817.3	3734143	5.42E-05	2.48E-04	5.41E-07	7.42E-06	3.39E-05	8.06E-08	4.56E-06	1.56E-05	1.87E-08
4888	420876.1	3734178	6.56E-05	3.00E-04	6.56E-07	9.00E-06	4.10E-05	9.77E-08	5.52E-06	1.89E-05	2.27E-08
4889	420886.4	3734191	7.02E-05	3.21E-04	7.02E-07	9.63E-06	4.39E-05	1.05E-07	5.91E-06	2.02E-05	2.43E-08
4890	420892.2	3734207	7.75E-05	3.54E-04	7.74E-07	1.06E-05	4.84E-05	1.15E-07	6.52E-06	2.23E-05	2.68E-08
4891	420898	3734223	8.53E-05	3.90E-04	8.53E-07	1.17E-05	5.33E-05	1.27E-07	7.18E-06	2.45E-05	2.95E-08
4892	420903.8	3734239	9.39E-05	4.29E-04	9.38E-07	1.29E-05	5.87E-05	1.40E-07	7.90E-06	2.70E-05	3.24E-08
4893	420909.6	3734256	1.03E-04	4.71E-04	1.03E-06	1.41E-05	6.43E-05	1.53E-07	8.66E-06	2.96E-05	3.56E-08

4894	420792.2	3734105	4.26E-05	1.95E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
4895	420807.5	3734115	4.52E-05	2.07E-04	4.52E-07	6.19E-06	2.82E-05	6.72E-08	3.80E-06	1.30E-05	1.56E-08
4896	420822.7	3734124	4.78E-05	2.19E-04	4.78E-07	6.55E-06	2.99E-05	7.12E-08	4.02E-06	1.37E-05	1.65E-08
4897	420838	3734133	5.04E-05	2.31E-04	5.04E-07	6.91E-06	3.15E-05	7.51E-08	4.24E-06	1.45E-05	1.74E-08
4898	420883.7	3734161	5.79E-05	2.65E-04	5.78E-07	7.93E-06	3.62E-05	8.61E-08	4.87E-06	1.66E-05	2.00E-08
4899	420902	3734178	6.29E-05	2.88E-04	6.29E-07	8.62E-06	3.93E-05	9.36E-08	5.29E-06	1.81E-05	2.17E-08
4900	420908	3734195	6.92E-05	3.16E-04	6.91E-07	9.48E-06	4.32E-05	1.03E-07	5.82E-06	1.99E-05	2.39E-08
4901	420911	3734204	7.25E-05	3.31E-04	7.24E-07	9.94E-06	4.53E-05	1.08E-07	6.10E-06	2.08E-05	2.50E-08
4902	420917	3734220	7.95E-05	3.63E-04	7.94E-07	1.09E-05	4.97E-05	1.18E-07	6.69E-06	2.28E-05	2.75E-08
4903	420923	3734237	8.69E-05	3.97E-04	8.69E-07	1.19E-05	5.44E-05	1.29E-07	7.31E-06	2.50E-05	3.00E-08
4904	420929	3734254	9.47E-05	4.33E-04	9.47E-07	1.30E-05	5.92E-05	1.41E-07	7.97E-06	2.72E-05	3.27E-08
4905	420796.5	3734086	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
4906	420804.4	3734091	3.90E-05	1.78E-04	3.90E-07	5.35E-06	2.44E-05	5.81E-08	3.28E-06	1.12E-05	1.35E-08
4907	420812.2	3734096	4.02E-05	1.84E-04	4.01E-07	5.51E-06	2.51E-05	5.98E-08	3.38E-06	1.15E-05	1.39E-08
4908	420820.1	3734100	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.47E-06	1.19E-05	1.43E-08
4909	420828	3734105	4.24E-05	1.94E-04	4.24E-07	5.82E-06	2.65E-05	6.32E-08	3.57E-06	1.22E-05	1.47E-08
4910	420835.8	3734110	4.36E-05	1.99E-04	4.36E-07	5.98E-06	2.73E-05	6.49E-08	3.67E-06	1.25E-05	1.51E-08
4911	420843.7	3734115	4.47E-05	2.05E-04	4.47E-07	6.13E-06	2.80E-05	6.66E-08	3.76E-06	1.29E-05	1.55E-08
4912	420906.6	3734153	5.31E-05	2.43E-04	5.31E-07	7.28E-06	3.32E-05	7.91E-08	4.47E-06	1.53E-05	1.84E-08
4913	420917.5	3734166	5.66E-05	2.59E-04	5.65E-07	7.76E-06	3.54E-05	8.42E-08	4.76E-06	1.63E-05	1.96E-08
4914	420920.6	3734175	5.93E-05	2.71E-04	5.92E-07	8.12E-06	3.70E-05	8.82E-08	4.98E-06	1.70E-05	2.05E-08
4915	420923.7	3734183	6.20E-05	2.84E-04	6.20E-07	8.50E-06	3.88E-05	9.23E-08	5.22E-06	1.78E-05	2.14E-08
4916	420926.8	3734192	6.49E-05	2.97E-04	6.49E-07	8.90E-06	4.06E-05	9.66E-08	5.46E-06	1.86E-05	2.24E-08
4917	420930	3734201	6.79E-05	3.10E-04	6.78E-07	9.30E-06	4.24E-05	1.01E-07	5.71E-06	1.95E-05	2.34E-08
4918	420933.1	3734209	7.09E-05	3.24E-04	7.09E-07	9.72E-06	4.43E-05	1.06E-07	5.97E-06	2.04E-05	2.45E-08
4919	420936.2	3734218	7.40E-05	3.39E-04	7.40E-07	1.01E-05	4.63E-05	1.10E-07	6.23E-06	2.13E-05	2.56E-08
4920	420939.3	3734227	7.72E-05	3.53E-04	7.72E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4921	420942.4	3734235	8.05E-05	3.68E-04	8.05E-07	1.10E-05	5.03E-05	1.20E-07	6.77E-06	2.31E-05	2.78E-08
4922	420945.5	3734244	8.38E-05	3.83E-04	8.38E-07	1.15E-05	5.24E-05	1.25E-07	7.05E-06	2.41E-05	2.90E-08
4923	420948.6	3734253	8.72E-05	3.99E-04	8.72E-07	1.20E-05	5.45E-05	1.30E-07	7.34E-06	2.51E-05	3.01E-08
4924	420961	3734287	1.01E-04	4.63E-04	1.01E-06	1.39E-05	6.33E-05	1.51E-07	8.52E-06	2.91E-05	3.50E-08
4925	420808	3734071	3.48E-05	1.59E-04	3.48E-07	4.78E-06	2.18E-05	5.19E-08	2.93E-06	1.00E-05	1.20E-08
4926	420823.2	3734080	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
4927	420838.4	3734089	3.86E-05	1.76E-04	3.86E-07	5.29E-06	2.41E-05	5.74E-08	3.25E-06	1.11E-05	1.33E-08
4928	420853.7	3734099	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
4929	420914.7	3734136	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.97E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
4930	420932.9	3734153	5.10E-05	2.33E-04	5.10E-07	6.99E-06	3.19E-05	7.59E-08	4.29E-06	1.47E-05	1.76E-08
4931	420938.9	3734170	5.55E-05	2.54E-04	5.54E-07	7.60E-06	3.47E-05	8.26E-08	4.67E-06	1.59E-05	1.92E-08
4932	420945	3734187	6.02E-05	2.75E-04	6.02E-07	8.25E-06	3.76E-05	8.96E-08	5.06E-06	1.73E-05	2.08E-08
4933	420951	3734204	6.52E-05	2.98E-04	6.51E-07	8.93E-06	4.07E-05	9.70E-08	5.48E-06	1.87E-05	2.25E-08
4934	420954	3734212	6.77E-05	3.10E-04	6.77E-07	9.29E-06	4.23E-05	1.01E-07	5.70E-06	1.95E-05	2.34E-08
4935	420960	3734229	7.30E-05	3.34E-04	7.29E-07	1.00E-05	4.56E-05	1.09E-07	6.14E-06	2.10E-05	2.52E-08
4936	420966	3734245	7.84E-05	3.58E-04	7.83E-07	1.07E-05	4.90E-05	1.17E-07	6.59E-06	2.25E-05	2.71E-08
4937	420812.4	3734052	3.14E-05	1.43E-04	3.13E-07	4.30E-06	1.96E-05	4.67E-08	2.64E-06	9.01E-06	1.08E-08
4938	420820.2	3734056	3.22E-05	1.47E-04	3.22E-07	4.41E-06	2.01E-05	4.79E-08	2.71E-06	9.25E-06	1.11E-08
4939	420828.1	3734061	3.30E-05	1.51E-04	3.30E-07	4.52E-06	2.06E-05	4.91E-08	2.78E-06	9.48E-06	1.14E-08
4940	420835.9	3734066	3.38E-05	1.55E-04	3.38E-07	4.64E-06	2.12E-05	5.04E-08	2.85E-06	9.72E-06	1.17E-08
4941	420843.7	3734071	3.47E-05	1.59E-04	3.46E-07	4.75E-06	2.17E-05	5.16E-08	2.92E-06	9.96E-06	1.20E-08
4942	420851.5	3734075	3.55E-05	1.62E-04	3.55E-07	4.87E-06	2.22E-05	5.28E-08	2.99E-06	1.02E-05	1.23E-08
4943	420906.3	3734108	4.11E-05	1.88E-04	4.11E-07	5.63E-06	2.57E-05	6.12E-08	3.46E-06	1.18E-05	1.42E-08
4944	420914.1	3734113	4.18E-05	1.91E-04	4.18E-07	5.73E-06	2.62E-05	6.23E-08	3.52E-06	1.20E-05	1.45E-08
4945	420921.9	3734118	4.25E-05	1.94E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
4946	420929.8	3734123	4.32E-05	1.97E-04	4.32E-07	5.92E-06	2.70E-05	6.43E-08	3.63E-06	1.24E-05	1.49E-08
4947	420937.6	3734127	4.38E-05	2.00E-04	4.38E-07	6.00E-06	2.74E-05	6.52E-08	3.69E-06	1.26E-05	1.51E-08
4948	420948.5	3734141	4.63E-05	2.11E-04	4.62E-07	6.34E-06	2.89E-05	6.89E-08	3.89E-06	1.33E-05	1.60E-08
4949	420951.6	3734149	4.82E-05	2.20E-04	4.82E-07	6.61E-06	3.01E-05	7.17E-08	4.05E-06	1.38E-05	1.67E-08
4950	420954.7	3734158	5.02E-05	2.29E-04	5.01E-07	6.88E-06	3.14E-05	7.47E-08	4.22E-06	1.44E-05	1.73E-08
4951	420957.8	3734167	5.22E-05	2.39E-04	5.22E-07	7.16E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
4952	420960.8	3734175	5.43E-05	2.48E-04	5.43E-07	7.44E-06	3.40E-05	8.08E-08	4.57E-06	1.56E-05	1.88E-08

4953	420963.9	3734184	5.64E-05	2.58E-04	5.64E-07	7.74E-06	3.53E-05	8.40E-08	4.75E-06	1.62E-05	1.95E-08
4954	420967	3734192	5.86E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.93E-06	1.68E-05	2.03E-08
4955	420970.1	3734201	6.08E-05	2.78E-04	6.08E-07	8.34E-06	3.80E-05	9.05E-08	5.12E-06	1.75E-05	2.10E-08
4956	420973.2	3734210	6.31E-05	2.88E-04	6.30E-07	8.64E-06	3.94E-05	9.39E-08	5.30E-06	1.81E-05	2.18E-08
4957	420976.3	3734218	6.53E-05	2.99E-04	6.53E-07	8.95E-06	4.08E-05	9.72E-08	5.50E-06	1.88E-05	2.26E-08
4958	420979.4	3734227	6.76E-05	3.09E-04	6.76E-07	9.27E-06	4.23E-05	1.01E-07	5.69E-06	1.94E-05	2.34E-08
4959	420982.5	3734235	6.99E-05	3.20E-04	6.99E-07	9.58E-06	4.37E-05	1.04E-07	5.88E-06	2.01E-05	2.42E-08
4960	420985.6	3734244	7.22E-05	3.30E-04	7.22E-07	9.90E-06	4.51E-05	1.07E-07	6.07E-06	2.07E-05	2.49E-08
4961	420988.6	3734253	7.45E-05	3.41E-04	7.45E-07	1.02E-05	4.66E-05	1.11E-07	6.27E-06	2.14E-05	2.58E-08
4962	421001	3734287	8.44E-05	3.86E-04	8.43E-07	1.16E-05	5.28E-05	1.26E-07	7.10E-06	2.42E-05	2.92E-08
4963	420816.1	3734032	2.83E-05	1.29E-04	2.83E-07	3.88E-06	1.77E-05	4.21E-08	2.38E-06	8.13E-06	9.78E-09
4964	420831.3	3734041	2.97E-05	1.36E-04	2.97E-07	4.07E-06	1.86E-05	4.42E-08	2.50E-06	8.53E-06	1.03E-08
4965	420846.5	3734050	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.61E-06	8.93E-06	1.07E-08
4966	420907.5	3734087	3.66E-05	1.67E-04	3.65E-07	5.01E-06	2.29E-05	5.44E-08	3.08E-06	1.05E-05	1.26E-08
4967	420922.8	3734096	3.78E-05	1.73E-04	3.78E-07	5.19E-06	2.37E-05	5.63E-08	3.18E-06	1.09E-05	1.31E-08
4968	420938	3734106	3.90E-05	1.78E-04	3.90E-07	5.35E-06	2.44E-05	5.81E-08	3.28E-06	1.12E-05	1.35E-08
4969	420953.3	3734115	4.00E-05	1.83E-04	4.00E-07	5.49E-06	2.50E-05	5.96E-08	3.37E-06	1.15E-05	1.38E-08
4970	420963.9	3734128	4.20E-05	1.92E-04	4.20E-07	5.76E-06	2.63E-05	6.26E-08	3.54E-06	1.21E-05	1.45E-08
4971	420966.9	3734136	4.37E-05	2.00E-04	4.36E-07	5.98E-06	2.73E-05	6.50E-08	3.67E-06	1.25E-05	1.51E-08
4972	420969.9	3734145	4.53E-05	2.07E-04	4.53E-07	6.21E-06	2.83E-05	6.74E-08	3.81E-06	1.30E-05	1.57E-08
4973	420975.9	3734161	4.87E-05	2.23E-04	4.87E-07	6.68E-06	3.05E-05	7.25E-08	4.10E-06	1.40E-05	1.68E-08
4974	420982	3734178	5.23E-05	2.39E-04	5.22E-07	7.17E-06	3.27E-05	7.78E-08	4.40E-06	1.50E-05	1.81E-08
4975	420988	3734195	5.59E-05	2.56E-04	5.59E-07	7.67E-06	3.50E-05	8.32E-08	4.70E-06	1.61E-05	1.93E-08
4976	420994	3734212	5.96E-05	2.73E-04	5.96E-07	8.17E-06	3.73E-05	8.88E-08	5.02E-06	1.71E-05	2.06E-08
4977	420997	3734220	6.15E-05	2.81E-04	6.15E-07	8.43E-06	3.85E-05	9.16E-08	5.17E-06	1.77E-05	2.13E-08
4978	421003	3734237	6.52E-05	2.98E-04	6.52E-07	8.94E-06	4.08E-05	9.71E-08	5.49E-06	1.87E-05	2.25E-08
4979	421021.1	3734287	7.73E-05	3.53E-04	7.73E-07	1.06E-05	4.83E-05	1.15E-07	6.50E-06	2.22E-05	2.67E-08
4980	420820.5	3734012	2.57E-05	1.18E-04	2.57E-07	3.53E-06	1.61E-05	3.83E-08	2.16E-06	7.39E-06	8.89E-09
4981	420828.3	3734017	2.63E-05	1.20E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.21E-06	7.56E-06	9.10E-09
4982	420836	3734022	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.01E-08	2.27E-06	7.74E-06	9.31E-09
4983	420843.8	3734027	2.76E-05	1.26E-04	2.75E-07	3.78E-06	1.72E-05	4.10E-08	2.32E-06	7.92E-06	9.52E-09
4984	420851.6	3734031	2.82E-05	1.29E-04	2.82E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.10E-06	9.74E-09
4985	420859.4	3734036	2.88E-05	1.32E-04	2.88E-07	3.95E-06	1.80E-05	4.29E-08	2.42E-06	8.28E-06	9.95E-09
4986	420898.4	3734060	3.19E-05	1.46E-04	3.19E-07	4.37E-06	1.99E-05	4.75E-08	2.68E-06	9.16E-06	1.10E-08
4987	420906.2	3734064	3.25E-05	1.49E-04	3.25E-07	4.45E-06	2.03E-05	4.84E-08	2.73E-06	9.34E-06	1.12E-08
4988	420914	3734069	3.31E-05	1.51E-04	3.31E-07	4.54E-06	2.07E-05	4.93E-08	2.78E-06	9.51E-06	1.14E-08
4989	420921.8	3734074	3.37E-05	1.54E-04	3.37E-07	4.62E-06	2.11E-05	5.01E-08	2.83E-06	9.68E-06	1.16E-08
4990	420929.6	3734078	3.43E-05	1.57E-04	3.42E-07	4.70E-06	2.14E-05	5.10E-08	2.88E-06	9.84E-06	1.18E-08
4991	420937.4	3734083	3.48E-05	1.59E-04	3.48E-07	4.77E-06	2.18E-05	5.18E-08	2.93E-06	1.00E-05	1.20E-08
4992	420945.2	3734088	3.53E-05	1.61E-04	3.53E-07	4.84E-06	2.21E-05	5.26E-08	2.97E-06	1.01E-05	1.22E-08
4993	420953	3734093	3.58E-05	1.64E-04	3.58E-07	4.91E-06	2.24E-05	5.33E-08	3.01E-06	1.03E-05	1.24E-08
4994	420960.8	3734097	3.63E-05	1.66E-04	3.62E-07	4.97E-06	2.27E-05	5.40E-08	3.05E-06	1.04E-05	1.25E-08
4995	420968.6	3734102	3.67E-05	1.68E-04	3.67E-07	5.03E-06	2.29E-05	5.46E-08	3.09E-06	1.05E-05	1.27E-08
4996	420979.4	3734115	3.85E-05	1.76E-04	3.84E-07	5.27E-06	2.40E-05	5.73E-08	3.24E-06	1.11E-05	1.33E-08
4997	420982.5	3734124	3.99E-05	1.82E-04	3.99E-07	5.47E-06	2.49E-05	5.94E-08	3.35E-06	1.15E-05	1.38E-08
4998	420985.6	3734133	4.13E-05	1.89E-04	4.13E-07	5.66E-06	2.58E-05	6.15E-08	3.48E-06	1.19E-05	1.43E-08
4999	420988.7	3734141	4.28E-05	1.96E-04	4.28E-07	5.87E-06	2.68E-05	6.37E-08	3.60E-06	1.23E-05	1.48E-08
5000	420991.8	3734150	4.43E-05	2.03E-04	4.43E-07	6.07E-06	2.77E-05	6.60E-08	3.73E-06	1.27E-05	1.53E-08
5001	420994.8	3734158	4.59E-05	2.10E-04	4.58E-07	6.29E-06	2.87E-05	6.83E-08	3.86E-06	1.32E-05	1.58E-08
5002	420997.9	3734167	4.74E-05	2.17E-04	4.74E-07	6.50E-06	2.96E-05	7.06E-08	3.99E-06	1.36E-05	1.64E-08
5003	421001	3734175	4.90E-05	2.24E-04	4.90E-07	6.71E-06	3.06E-05	7.29E-08	4.12E-06	1.41E-05	1.69E-08
5004	421004.1	3734184	5.06E-05	2.31E-04	5.05E-07	6.93E-06	3.16E-05	7.53E-08	4.25E-06	1.45E-05	1.75E-08
5005	421007.2	3734193	5.22E-05	2.39E-04	5.21E-07	7.15E-06	3.26E-05	7.77E-08	4.39E-06	1.50E-05	1.80E-08
5006	421010.2	3734201	5.38E-05	2.46E-04	5.38E-07	7.37E-06	3.36E-05	8.01E-08	4.52E-06	1.55E-05	1.86E-08
5007	421013.3	3734210	5.54E-05	2.53E-04	5.54E-07	7.59E-06	3.46E-05	8.25E-08	4.66E-06	1.59E-05	1.91E-08
5008	421016.4	3734218	5.70E-05	2.61E-04	5.70E-07	7.82E-06	3.57E-05	8.49E-08	4.80E-06	1.64E-05	1.97E-08
5009	421019.5	3734227	5.87E-05	2.68E-04	5.86E-07	8.04E-06	3.67E-05	8.73E-08	4.93E-06	1.69E-05	2.03E-08
5010	421022.5	3734236	6.03E-05	2.76E-04	6.02E-07	8.26E-06	3.77E-05	8.97E-08	5.07E-06	1.73E-05	2.08E-08
5011	421025.6	3734244	6.19E-05	2.83E-04	6.19E-07	8.48E-06	3.87E-05	9.21E-08	5.21E-06	1.78E-05	2.14E-08

5012	420828.5	3733973	2.15E-05	9.82E-05	2.15E-07	2.94E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
5013	420844.1	3733983	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.44E-06	7.74E-09
5014	420851.8	3733987	2.29E-05	1.05E-04	2.29E-07	3.14E-06	1.43E-05	3.40E-08	1.92E-06	6.57E-06	7.90E-09
5015	420859.6	3733992	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.48E-08	1.96E-06	6.71E-06	8.07E-09
5016	420906.3	3734020	2.62E-05	1.20E-04	2.62E-07	3.59E-06	1.64E-05	3.90E-08	2.20E-06	7.53E-06	9.05E-09
5017	420914	3734025	2.67E-05	1.22E-04	2.67E-07	3.66E-06	1.67E-05	3.97E-08	2.24E-06	7.67E-06	9.22E-09
5018	420921.8	3734030	2.71E-05	1.24E-04	2.71E-07	3.72E-06	1.70E-05	4.04E-08	2.28E-06	7.80E-06	9.38E-09
5019	420929.6	3734034	2.76E-05	1.26E-04	2.76E-07	3.79E-06	1.73E-05	4.11E-08	2.32E-06	7.93E-06	9.54E-09
5020	420945.1	3734044	2.85E-05	1.30E-04	2.85E-07	3.91E-06	1.78E-05	4.25E-08	2.40E-06	8.20E-06	9.86E-09
5021	420952.9	3734049	2.90E-05	1.32E-04	2.89E-07	3.97E-06	1.81E-05	4.31E-08	2.44E-06	8.32E-06	1.00E-08
5022	420960.7	3734053	2.94E-05	1.34E-04	2.94E-07	4.03E-06	1.84E-05	4.37E-08	2.47E-06	8.44E-06	1.02E-08
5023	420968.5	3734058	2.98E-05	1.36E-04	2.98E-07	4.08E-06	1.86E-05	4.44E-08	2.51E-06	8.56E-06	1.03E-08
5024	420976.2	3734063	3.02E-05	1.38E-04	3.02E-07	4.14E-06	1.89E-05	4.49E-08	2.54E-06	8.67E-06	1.04E-08
5025	420991.8	3734072	3.09E-05	1.41E-04	3.09E-07	4.24E-06	1.93E-05	4.60E-08	2.60E-06	8.88E-06	1.07E-08
5026	420999.6	3734077	3.12E-05	1.43E-04	3.12E-07	4.28E-06	1.95E-05	4.65E-08	2.63E-06	8.97E-06	1.08E-08
5027	421010.4	3734090	3.25E-05	1.49E-04	3.25E-07	4.46E-06	2.03E-05	4.84E-08	2.73E-06	9.34E-06	1.12E-08
5028	421013.5	3734099	3.35E-05	1.53E-04	3.35E-07	4.60E-06	2.10E-05	4.99E-08	2.82E-06	9.64E-06	1.16E-08
5029	421016.6	3734107	3.46E-05	1.58E-04	3.46E-07	4.75E-06	2.16E-05	5.15E-08	2.91E-06	9.95E-06	1.20E-08
5030	421019.6	3734116	3.57E-05	1.63E-04	3.57E-07	4.90E-06	2.23E-05	5.32E-08	3.00E-06	1.03E-05	1.23E-08
5031	421022.7	3734124	3.68E-05	1.68E-04	3.68E-07	5.05E-06	2.30E-05	5.48E-08	3.10E-06	1.06E-05	1.27E-08
5032	421025.8	3734133	3.79E-05	1.74E-04	3.79E-07	5.20E-06	2.37E-05	5.65E-08	3.19E-06	1.09E-05	1.31E-08
5033	421028.8	3734141	3.91E-05	1.79E-04	3.91E-07	5.36E-06	2.44E-05	5.82E-08	3.29E-06	1.12E-05	1.35E-08
5034	421031.9	3734150	4.02E-05	1.84E-04	4.02E-07	5.52E-06	2.52E-05	5.99E-08	3.38E-06	1.16E-05	1.39E-08
5035	421035	3734159	4.14E-05	1.89E-04	4.14E-07	5.67E-06	2.59E-05	6.16E-08	3.48E-06	1.19E-05	1.43E-08
5036	421038	3734167	4.25E-05	1.94E-04	4.25E-07	5.83E-06	2.66E-05	6.33E-08	3.58E-06	1.22E-05	1.47E-08
5037	421041.1	3734176	4.37E-05	2.00E-04	4.37E-07	5.99E-06	2.73E-05	6.51E-08	3.68E-06	1.26E-05	1.51E-08
5038	421044.2	3734184	4.49E-05	2.05E-04	4.48E-07	6.15E-06	2.80E-05	6.68E-08	3.77E-06	1.29E-05	1.55E-08
5039	421047.3	3734193	4.60E-05	2.10E-04	4.60E-07	6.31E-06	2.88E-05	6.85E-08	3.87E-06	1.32E-05	1.59E-08
5040	421050.3	3734201	4.72E-05	2.16E-04	4.72E-07	6.47E-06	2.95E-05	7.02E-08	3.97E-06	1.36E-05	1.63E-08
5041	421053.4	3734210	4.83E-05	2.21E-04	4.83E-07	6.63E-06	3.02E-05	7.19E-08	4.07E-06	1.39E-05	1.67E-08
5042	421056.5	3734218	4.95E-05	2.26E-04	4.95E-07	6.79E-06	3.09E-05	7.37E-08	4.16E-06	1.42E-05	1.71E-08
5043	421059.5	3734227	5.07E-05	2.32E-04	5.06E-07	6.95E-06	3.17E-05	7.54E-08	4.26E-06	1.46E-05	1.75E-08
5044	421062.6	3734236	5.18E-05	2.37E-04	5.18E-07	7.11E-06	3.24E-05	7.72E-08	4.36E-06	1.49E-05	1.79E-08
5045	421065.7	3734244	5.31E-05	2.43E-04	5.30E-07	7.27E-06	3.32E-05	7.90E-08	4.46E-06	1.52E-05	1.83E-08
5046	420794.9	3733960	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	2.99E-08	1.69E-06	5.78E-06	6.95E-09
5047	420921.9	3733986	2.23E-05	1.02E-04	2.23E-07	3.05E-06	1.39E-05	3.31E-08	1.87E-06	6.40E-06	7.69E-09
5048	420937.4	3733995	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.61E-06	7.95E-09
5049	420945.2	3734000	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.72E-06	8.08E-09
5050	420953	3734004	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
5051	420960.7	3734009	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
5052	420976.2	3734019	2.48E-05	1.14E-04	2.48E-07	3.40E-06	1.55E-05	3.70E-08	2.09E-06	7.14E-06	8.58E-09
5053	420984	3734023	2.52E-05	1.15E-04	2.52E-07	3.45E-06	1.57E-05	3.75E-08	2.12E-06	7.23E-06	8.70E-09
5054	420991.8	3734028	2.55E-05	1.17E-04	2.55E-07	3.50E-06	1.59E-05	3.80E-08	2.15E-06	7.33E-06	8.81E-09
5055	420999.5	3734033	2.58E-05	1.18E-04	2.58E-07	3.54E-06	1.61E-05	3.84E-08	2.17E-06	7.42E-06	8.92E-09
5056	421015	3734042	2.64E-05	1.21E-04	2.63E-07	3.61E-06	1.65E-05	3.92E-08	2.22E-06	7.57E-06	9.11E-09
5057	421022.8	3734047	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.19E-09
5058	421030.6	3734051	2.68E-05	1.23E-04	2.68E-07	3.68E-06	1.68E-05	3.99E-08	2.26E-06	7.71E-06	9.27E-09
5059	421041.4	3734065	2.78E-05	1.27E-04	2.78E-07	3.81E-06	1.74E-05	4.14E-08	2.34E-06	8.00E-06	9.62E-09
5060	421044.4	3734073	2.86E-05	1.31E-04	2.86E-07	3.93E-06	1.79E-05	4.26E-08	2.41E-06	8.23E-06	9.90E-09
5061	421047.5	3734082	2.95E-05	1.35E-04	2.94E-07	4.04E-06	1.84E-05	4.38E-08	2.48E-06	8.46E-06	1.02E-08
5062	421050.6	3734090	3.03E-05	1.38E-04	3.03E-07	4.15E-06	1.89E-05	4.51E-08	2.55E-06	8.70E-06	1.05E-08
5063	421053.6	3734099	3.11E-05	1.42E-04	3.11E-07	4.26E-06	1.94E-05	4.63E-08	2.62E-06	8.94E-06	1.07E-08
5064	421056.7	3734107	3.20E-05	1.46E-04	3.19E-07	4.38E-06	2.00E-05	4.76E-08	2.69E-06	9.18E-06	1.10E-08
5065	421059.8	3734116	3.28E-05	1.50E-04	3.28E-07	4.50E-06	2.05E-05	4.88E-08	2.76E-06	9.42E-06	1.13E-08
5066	421062.8	3734124	3.36E-05	1.54E-04	3.36E-07	4.61E-06	2.10E-05	5.01E-08	2.83E-06	9.67E-06	1.16E-08
5067	421065.9	3734133	3.45E-05	1.58E-04	3.45E-07	4.73E-06	2.16E-05	5.13E-08	2.90E-06	9.91E-06	1.19E-08
5068	421068.9	3734142	3.53E-05	1.62E-04	3.53E-07	4.84E-06	2.21E-05	5.26E-08	2.97E-06	1.02E-05	1.22E-08
5069	421072	3734150	3.62E-05	1.65E-04	3.62E-07	4.96E-06	2.26E-05	5.39E-08	3.04E-06	1.04E-05	1.25E-08
5070	421075.1	3734159	3.70E-05	1.69E-04	3.70E-07	5.08E-06	2.32E-05	5.51E-08	3.12E-06	1.06E-05	1.28E-08

5071	421078.1	3734167	3.79E-05	1.73E-04	3.79E-07	5.20E-06	2.37E-05	5.64E-08	3.19E-06	1.09E-05	1.31E-08
5072	421081.2	3734176	3.88E-05	1.77E-04	3.87E-07	5.31E-06	2.42E-05	5.77E-08	3.26E-06	1.11E-05	1.34E-08
5073	421084.3	3734184	3.96E-05	1.81E-04	3.96E-07	5.43E-06	2.48E-05	5.90E-08	3.33E-06	1.14E-05	1.37E-08
5074	421087.3	3734193	4.05E-05	1.85E-04	4.05E-07	5.55E-06	2.53E-05	6.03E-08	3.41E-06	1.16E-05	1.40E-08
5075	420803	3733921	1.72E-05	7.85E-05	1.72E-07	2.35E-06	1.07E-05	2.56E-08	1.44E-06	4.93E-06	5.93E-09
5076	420852.4	3733899	1.60E-05	7.31E-05	1.60E-07	2.19E-06	1.00E-05	2.38E-08	1.35E-06	4.60E-06	5.53E-09
5077	420860.2	3733904	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.63E-09
5078	420891.1	3733923	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.59E-08	1.47E-06	5.01E-06	6.02E-09
5079	420945.4	3733956	1.95E-05	8.91E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.60E-06	6.74E-09
5080	420953.1	3733960	1.98E-05	9.05E-05	1.98E-07	2.71E-06	1.24E-05	2.95E-08	1.66E-06	5.69E-06	6.84E-09
5081	420960.8	3733965	2.01E-05	9.19E-05	2.01E-07	2.75E-06	1.26E-05	2.99E-08	1.69E-06	5.77E-06	6.94E-09
5082	420976.3	3733975	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.95E-06	7.15E-09
5083	420984.1	3733979	2.10E-05	9.60E-05	2.10E-07	2.88E-06	1.31E-05	3.12E-08	1.77E-06	6.03E-06	7.25E-09
5084	420991.8	3733984	2.13E-05	9.73E-05	2.13E-07	2.92E-06	1.33E-05	3.17E-08	1.79E-06	6.11E-06	7.35E-09
5085	421007.3	3733993	2.18E-05	9.98E-05	2.18E-07	2.99E-06	1.36E-05	3.25E-08	1.84E-06	6.27E-06	7.54E-09
5086	421015.1	3733998	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.63E-09
5087	421022.8	3734003	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.40E-05	3.32E-08	1.88E-06	6.42E-06	7.72E-09
5088	421030.6	3734007	2.26E-05	1.03E-04	2.25E-07	3.09E-06	1.41E-05	3.36E-08	1.90E-06	6.48E-06	7.80E-09
5089	421046	3734017	2.30E-05	1.05E-04	2.30E-07	3.15E-06	1.44E-05	3.42E-08	1.93E-06	6.60E-06	7.94E-09
5090	421053.8	3734021	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.45E-05	3.45E-08	1.95E-06	6.65E-06	8.00E-09
5091	421061.5	3734026	2.33E-05	1.07E-04	2.33E-07	3.20E-06	1.46E-05	3.47E-08	1.96E-06	6.70E-06	8.06E-09
5092	421072.3	3734039	2.41E-05	1.10E-04	2.41E-07	3.30E-06	1.51E-05	3.59E-08	2.03E-06	6.92E-06	8.32E-09
5093	421075.4	3734048	2.47E-05	1.13E-04	2.47E-07	3.39E-06	1.55E-05	3.68E-08	2.08E-06	7.10E-06	8.54E-09
5094	421078.5	3734056	2.54E-05	1.16E-04	2.53E-07	3.48E-06	1.59E-05	3.77E-08	2.13E-06	7.29E-06	8.76E-09
5095	421081.5	3734065	2.60E-05	1.19E-04	2.60E-07	3.56E-06	1.63E-05	3.87E-08	2.19E-06	7.47E-06	8.98E-09
5096	421084.6	3734073	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.67E-05	3.97E-08	2.24E-06	7.66E-06	9.21E-09
5097	421087.6	3734082	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.84E-06	9.43E-09
5098	421090.7	3734091	2.79E-05	1.28E-04	2.79E-07	3.83E-06	1.75E-05	4.16E-08	2.35E-06	8.03E-06	9.66E-09
5099	421093.7	3734099	2.86E-05	1.31E-04	2.86E-07	3.92E-06	1.79E-05	4.26E-08	2.41E-06	8.21E-06	9.88E-09
5100	421096.8	3734108	2.92E-05	1.34E-04	2.92E-07	4.01E-06	1.83E-05	4.35E-08	2.46E-06	8.40E-06	1.01E-08
5101	421099.9	3734116	2.99E-05	1.37E-04	2.99E-07	4.09E-06	1.87E-05	4.45E-08	2.51E-06	8.58E-06	1.03E-08
5102	421102.9	3734125	3.05E-05	1.39E-04	3.05E-07	4.18E-06	1.91E-05	4.54E-08	2.57E-06	8.76E-06	1.05E-08
5103	421106	3734133	3.11E-05	1.42E-04	3.11E-07	4.27E-06	1.95E-05	4.64E-08	2.62E-06	8.95E-06	1.08E-08
5104	421109	3734142	3.18E-05	1.45E-04	3.18E-07	4.36E-06	1.99E-05	4.73E-08	2.67E-06	9.13E-06	1.10E-08
5105	421112.1	3734150	3.24E-05	1.48E-04	3.24E-07	4.44E-06	2.03E-05	4.83E-08	2.73E-06	9.31E-06	1.12E-08
5106	421161	3734287	4.46E-05	2.04E-04	4.46E-07	6.11E-06	2.79E-05	6.64E-08	3.75E-06	1.28E-05	1.54E-08
5107	420811.1	3733882	1.49E-05	6.80E-05	1.49E-07	2.04E-06	9.30E-06	2.21E-08	1.25E-06	4.27E-06	5.14E-09
5108	420860.5	3733860	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.71E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
5109	420868.2	3733865	1.42E-05	6.47E-05	1.42E-07	1.94E-06	8.85E-06	2.11E-08	1.19E-06	4.07E-06	4.89E-09
5110	420875.9	3733870	1.44E-05	6.58E-05	1.44E-07	1.97E-06	9.00E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
5111	420899.2	3733884	1.51E-05	6.89E-05	1.51E-07	2.07E-06	9.43E-06	2.24E-08	1.27E-06	4.33E-06	5.21E-09
5112	420906.9	3733888	1.53E-05	7.00E-05	1.53E-07	2.10E-06	9.57E-06	2.28E-08	1.29E-06	4.40E-06	5.29E-09
5113	420937.8	3733907	1.63E-05	7.44E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.68E-06	5.62E-09
5114	420953.3	3733917	1.68E-05	7.66E-05	1.68E-07	2.30E-06	1.05E-05	2.50E-08	1.41E-06	4.82E-06	5.79E-09
5115	420961	3733921	1.70E-05	7.78E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.89E-06	5.88E-09
5116	421015.2	3733954	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
5117	421022.9	3733959	1.89E-05	8.64E-05	1.89E-07	2.59E-06	1.18E-05	2.81E-08	1.59E-06	5.43E-06	6.53E-09
5118	421038.4	3733968	1.93E-05	8.84E-05	1.93E-07	2.65E-06	1.21E-05	2.88E-08	1.63E-06	5.55E-06	6.68E-09
5119	421046.1	3733973	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
5120	421053.8	3733977	1.97E-05	9.01E-05	1.97E-07	2.70E-06	1.23E-05	2.94E-08	1.66E-06	5.67E-06	6.81E-09
5121	421069.3	3733987	2.01E-05	9.17E-05	2.01E-07	2.75E-06	1.25E-05	2.99E-08	1.69E-06	5.77E-06	6.93E-09
5122	421077	3733991	2.02E-05	9.25E-05	2.02E-07	2.77E-06	1.26E-05	3.01E-08	1.70E-06	5.81E-06	6.99E-09
5123	421084.8	3733996	2.04E-05	9.31E-05	2.04E-07	2.79E-06	1.27E-05	3.03E-08	1.71E-06	5.85E-06	7.04E-09
5124	421103.3	3734014	2.11E-05	9.65E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.78E-06	6.06E-06	7.29E-09
5125	421106.4	3734023	2.16E-05	9.88E-05	2.16E-07	2.96E-06	1.35E-05	3.22E-08	1.82E-06	6.21E-06	7.46E-09
5126	421109.4	3734031	2.21E-05	1.01E-04	2.21E-07	3.03E-06	1.38E-05	3.29E-08	1.86E-06	6.35E-06	7.64E-09
5127	421112.5	3734040	2.26E-05	1.03E-04	2.26E-07	3.10E-06	1.41E-05	3.36E-08	1.90E-06	6.49E-06	7.81E-09
5128	421115.5	3734048	2.31E-05	1.06E-04	2.31E-07	3.17E-06	1.44E-05	3.44E-08	1.94E-06	6.64E-06	7.99E-09
5129	421118.6	3734057	2.36E-05	1.08E-04	2.36E-07	3.24E-06	1.48E-05	3.52E-08	1.99E-06	6.79E-06	8.16E-09

5130	421121.6	3734065	2.41E-05	1.10E-04	2.41E-07	3.31E-06	1.51E-05	3.59E-08	2.03E-06	6.93E-06	8.34E-09
5131	421124.7	3734074	2.46E-05	1.13E-04	2.46E-07	3.38E-06	1.54E-05	3.67E-08	2.07E-06	7.08E-06	8.51E-09
5132	421127.7	3734082	2.51E-05	1.15E-04	2.51E-07	3.45E-06	1.57E-05	3.74E-08	2.11E-06	7.22E-06	8.69E-09
5133	421130.8	3734091	2.56E-05	1.17E-04	2.56E-07	3.51E-06	1.60E-05	3.82E-08	2.16E-06	7.37E-06	8.86E-09
5134	421133.8	3734099	2.61E-05	1.19E-04	2.61E-07	3.58E-06	1.63E-05	3.89E-08	2.20E-06	7.51E-06	9.03E-09
5135	421136.9	3734108	2.66E-05	1.22E-04	2.66E-07	3.65E-06	1.66E-05	3.96E-08	2.24E-06	7.65E-06	9.20E-09
5136	421198	3734278	3.79E-05	1.74E-04	3.79E-07	5.20E-06	2.37E-05	5.65E-08	3.19E-06	1.09E-05	1.31E-08
5137	421201	3734286	3.89E-05	1.78E-04	3.89E-07	5.33E-06	2.43E-05	5.79E-08	3.27E-06	1.12E-05	1.34E-08
5138	420828.2	3733844	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.21E-06	1.96E-08	1.11E-06	3.77E-06	4.54E-09
5139	420819.2	3733842	1.30E-05	5.95E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
5140	420876.3	3733826	1.25E-05	5.69E-05	1.24E-07	1.71E-06	7.79E-06	1.85E-08	1.05E-06	3.58E-06	4.30E-09
5141	420907.2	3733844	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5142	420914.9	3733849	1.34E-05	6.13E-05	1.34E-07	1.84E-06	8.38E-06	2.00E-08	1.13E-06	3.85E-06	4.63E-09
5143	420930.4	3733859	1.38E-05	6.31E-05	1.38E-07	1.89E-06	8.63E-06	2.05E-08	1.16E-06	3.97E-06	4.77E-09
5144	420961.3	3733877	1.46E-05	6.67E-05	1.46E-07	2.00E-06	9.12E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
5145	420969	3733882	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.25E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
5146	420984.4	3733891	1.52E-05	6.95E-05	1.52E-07	2.08E-06	9.50E-06	2.26E-08	1.28E-06	4.37E-06	5.25E-09
5147	420992.2	3733896	1.54E-05	7.04E-05	1.54E-07	2.11E-06	9.63E-06	2.29E-08	1.30E-06	4.42E-06	5.32E-09
5148	420999.9	3733901	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5149	421015.3	3733910	1.60E-05	7.31E-05	1.60E-07	2.19E-06	1.00E-05	2.38E-08	1.35E-06	4.60E-06	5.53E-09
5150	421023.1	3733915	1.62E-05	7.40E-05	1.62E-07	2.22E-06	1.01E-05	2.41E-08	1.36E-06	4.65E-06	5.60E-09
5151	421030.8	3733919	1.64E-05	7.49E-05	1.64E-07	2.25E-06	1.02E-05	2.44E-08	1.38E-06	4.71E-06	5.66E-09
5152	421084.9	3733952	1.76E-05	8.04E-05	1.76E-07	2.41E-06	1.10E-05	2.62E-08	1.48E-06	5.05E-06	6.08E-09
5153	421100.3	3733962	1.79E-05	8.16E-05	1.78E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
5154	421108	3733966	1.80E-05	8.22E-05	1.80E-07	2.46E-06	1.12E-05	2.68E-08	1.51E-06	5.17E-06	6.21E-09
5155	421123.5	3733976	1.82E-05	8.31E-05	1.82E-07	2.49E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.28E-09
5156	421134.3	3733989	1.87E-05	8.54E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.45E-09
5157	421137.3	3733997	1.91E-05	8.72E-05	1.91E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
5158	421140.4	3734006	1.95E-05	8.90E-05	1.95E-07	2.67E-06	1.22E-05	2.90E-08	1.64E-06	5.60E-06	6.73E-09
5159	421143.4	3734014	1.99E-05	9.09E-05	1.99E-07	2.73E-06	1.24E-05	2.96E-08	1.67E-06	5.71E-06	6.87E-09
5160	421146.5	3734023	2.03E-05	9.27E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.83E-06	7.01E-09
5161	421149.5	3734031	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
5162	421152.6	3734040	2.11E-05	9.64E-05	2.11E-07	2.89E-06	1.32E-05	3.14E-08	1.77E-06	6.06E-06	7.29E-09
5163	421155.6	3734048	2.15E-05	9.83E-05	2.15E-07	2.95E-06	1.34E-05	3.20E-08	1.81E-06	6.18E-06	7.43E-09
5164	421158.7	3734057	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.29E-06	7.56E-09
5165	421161.7	3734065	2.23E-05	1.02E-04	2.23E-07	3.06E-06	1.39E-05	3.32E-08	1.88E-06	6.40E-06	7.70E-09
5166	421195.3	3734159	2.65E-05	1.21E-04	2.65E-07	3.63E-06	1.66E-05	3.95E-08	2.23E-06	7.62E-06	9.16E-09
5167	421198.3	3734167	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.30E-09
5168	421201.4	3734176	2.73E-05	1.25E-04	2.73E-07	3.74E-06	1.71E-05	4.06E-08	2.30E-06	7.85E-06	9.44E-09
5169	421204.4	3734184	2.77E-05	1.27E-04	2.77E-07	3.80E-06	1.73E-05	4.13E-08	2.33E-06	7.96E-06	9.58E-09
5170	421207.5	3734193	2.81E-05	1.29E-04	2.81E-07	3.86E-06	1.76E-05	4.19E-08	2.37E-06	8.09E-06	9.73E-09
5171	421210.5	3734201	2.86E-05	1.31E-04	2.86E-07	3.92E-06	1.79E-05	4.26E-08	2.41E-06	8.22E-06	9.88E-09
5172	421213.6	3734210	2.91E-05	1.33E-04	2.90E-07	3.98E-06	1.82E-05	4.32E-08	2.44E-06	8.35E-06	1.00E-08
5173	420836.3	3733805	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.27E-06	1.73E-08	9.78E-07	3.34E-06	4.02E-09
5174	420827.3	3733803	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.70E-07	3.31E-06	3.98E-09
5175	420884.4	3733787	1.11E-05	5.06E-05	1.11E-07	1.52E-06	6.92E-06	1.65E-08	9.32E-07	3.18E-06	3.83E-09
5176	420915.2	3733805	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
5177	420922.9	3733810	1.19E-05	5.42E-05	1.19E-07	1.63E-06	7.41E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
5178	420930.7	3733815	1.20E-05	5.50E-05	1.20E-07	1.65E-06	7.52E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5179	420946.1	3733824	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
5180	420969.2	3733838	1.28E-05	5.87E-05	1.28E-07	1.76E-06	8.03E-06	1.91E-08	1.08E-06	3.69E-06	4.44E-09
5181	420977	3733843	1.30E-05	5.95E-05	1.30E-07	1.78E-06	8.13E-06	1.94E-08	1.09E-06	3.74E-06	4.50E-09
5182	420992.4	3733852	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
5183	421000.1	3733857	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
5184	421007.8	3733861	1.37E-05	6.26E-05	1.37E-07	1.88E-06	8.56E-06	2.04E-08	1.15E-06	3.93E-06	4.73E-09
5185	421023.3	3733871	1.40E-05	6.41E-05	1.40E-07	1.92E-06	8.77E-06	2.09E-08	1.18E-06	4.03E-06	4.85E-09
5186	421031	3733875	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.90E-09
5187	421046.4	3733885	1.45E-05	6.64E-05	1.45E-07	1.99E-06	9.08E-06	2.16E-08	1.22E-06	4.17E-06	5.02E-09
5188	421054.1	3733889	1.47E-05	6.71E-05	1.47E-07	2.01E-06	9.18E-06	2.19E-08	1.24E-06	4.22E-06	5.07E-09

5189	421061.9	3733894	1.48E-05	6.79E-05	1.48E-07	2.03E-06	9.28E-06	2.21E-08	1.25E-06	4.26E-06	5.13E-09
5190	421077.3	3733903	1.51E-05	6.92E-05	1.51E-07	2.08E-06	9.47E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
5191	421085	3733908	1.53E-05	6.99E-05	1.53E-07	2.10E-06	9.56E-06	2.28E-08	1.29E-06	4.39E-06	5.28E-09
5192	421100.4	3733918	1.56E-05	7.12E-05	1.56E-07	2.13E-06	9.73E-06	2.32E-08	1.31E-06	4.47E-06	5.38E-09
5193	421108.2	3733922	1.57E-05	7.17E-05	1.57E-07	2.15E-06	9.81E-06	2.33E-08	1.32E-06	4.51E-06	5.42E-09
5194	421165.2	3733963	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5195	421168.3	3733972	1.70E-05	7.76E-05	1.70E-07	2.33E-06	1.06E-05	2.53E-08	1.43E-06	4.88E-06	5.86E-09
5196	421171.3	3733980	1.73E-05	7.91E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.46E-06	4.97E-06	5.98E-09
5197	421174.4	3733989	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.06E-06	6.09E-09
5198	421177.4	3733997	1.80E-05	8.21E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
5199	421180.5	3734006	1.83E-05	8.36E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.32E-09
5200	421186.6	3734023	1.89E-05	8.66E-05	1.89E-07	2.60E-06	1.18E-05	2.82E-08	1.59E-06	5.44E-06	6.54E-09
5201	421204.9	3734074	2.08E-05	9.52E-05	2.08E-07	2.86E-06	1.30E-05	3.10E-08	1.75E-06	5.99E-06	7.20E-09
5202	421207.9	3734082	2.11E-05	9.66E-05	2.11E-07	2.90E-06	1.32E-05	3.15E-08	1.78E-06	6.07E-06	7.30E-09
5203	421211	3734091	2.14E-05	9.80E-05	2.14E-07	2.94E-06	1.34E-05	3.19E-08	1.80E-06	6.16E-06	7.41E-09
5204	421214	3734099	2.17E-05	9.94E-05	2.17E-07	2.98E-06	1.36E-05	3.24E-08	1.83E-06	6.25E-06	7.51E-09
5205	421235.3	3734159	2.39E-05	1.09E-04	2.39E-07	3.27E-06	1.49E-05	3.55E-08	2.01E-06	6.86E-06	8.25E-09
5206	421238.4	3734167	2.42E-05	1.11E-04	2.42E-07	3.32E-06	1.51E-05	3.60E-08	2.04E-06	6.95E-06	8.36E-09
5207	421241.4	3734176	2.45E-05	1.12E-04	2.45E-07	3.36E-06	1.53E-05	3.65E-08	2.06E-06	7.05E-06	8.48E-09
5208	421244.5	3734184	2.49E-05	1.14E-04	2.49E-07	3.41E-06	1.56E-05	3.70E-08	2.09E-06	7.15E-06	8.60E-09
5209	421247.5	3734193	2.53E-05	1.15E-04	2.52E-07	3.46E-06	1.58E-05	3.76E-08	2.12E-06	7.26E-06	8.73E-09
5210	421250.6	3734201	2.56E-05	1.17E-04	2.56E-07	3.51E-06	1.60E-05	3.82E-08	2.16E-06	7.37E-06	8.86E-09
5211	421253.6	3734210	2.60E-05	1.19E-04	2.60E-07	3.57E-06	1.63E-05	3.87E-08	2.19E-06	7.48E-06	9.00E-09
5212	421256.7	3734218	2.64E-05	1.21E-04	2.64E-07	3.63E-06	1.65E-05	3.94E-08	2.23E-06	7.60E-06	9.14E-09
5213	421259.7	3734227	2.69E-05	1.23E-04	2.69E-07	3.69E-06	1.68E-05	4.00E-08	2.26E-06	7.73E-06	9.29E-09
5214	421262.8	3734235	2.74E-05	1.25E-04	2.73E-07	3.75E-06	1.71E-05	4.07E-08	2.30E-06	7.86E-06	9.45E-09
5215	421265.8	3734244	2.78E-05	1.27E-04	2.78E-07	3.82E-06	1.74E-05	4.14E-08	2.34E-06	8.00E-06	9.62E-09
5216	421281	3734286	3.08E-05	1.41E-04	3.08E-07	4.22E-06	1.93E-05	4.59E-08	2.59E-06	8.86E-06	1.07E-08
5217	420853.5	3733768	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.61E-09
5218	420844.4	3733766	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.74E-07	2.98E-06	3.59E-09
5219	420835.4	3733764	1.03E-05	4.71E-05	1.03E-07	1.41E-06	6.44E-06	1.53E-08	8.67E-07	2.96E-06	3.56E-09
5220	420893.2	3733748	9.95E-06	4.55E-05	9.94E-08	1.36E-06	6.22E-06	1.48E-08	8.37E-07	2.86E-06	3.44E-09
5221	420901.1	3733753	1.01E-05	4.61E-05	1.01E-07	1.38E-06	6.30E-06	1.50E-08	8.48E-07	2.90E-06	3.48E-09
5222	420932.6	3733772	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
5223	420940.5	3733777	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5224	420948.4	3733781	1.09E-05	4.99E-05	1.09E-07	1.49E-06	6.82E-06	1.62E-08	9.17E-07	3.13E-06	3.77E-09
5225	420956.3	3733786	1.10E-05	5.05E-05	1.10E-07	1.51E-06	6.90E-06	1.64E-08	9.29E-07	3.17E-06	3.81E-09
5226	420964.2	3733791	1.12E-05	5.11E-05	1.12E-07	1.53E-06	6.99E-06	1.66E-08	9.41E-07	3.21E-06	3.86E-09
5227	420987.9	3733805	1.16E-05	5.31E-05	1.16E-07	1.59E-06	7.26E-06	1.73E-08	9.77E-07	3.34E-06	4.01E-09
5228	420995.8	3733810	1.18E-05	5.37E-05	1.17E-07	1.61E-06	7.35E-06	1.75E-08	9.89E-07	3.38E-06	4.06E-09
5229	421003.7	3733815	1.19E-05	5.44E-05	1.19E-07	1.63E-06	7.44E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
5230	421011.6	3733820	1.20E-05	5.51E-05	1.20E-07	1.65E-06	7.53E-06	1.79E-08	1.01E-06	3.46E-06	4.16E-09
5231	421019.5	3733824	1.22E-05	5.58E-05	1.22E-07	1.67E-06	7.62E-06	1.82E-08	1.03E-06	3.50E-06	4.21E-09
5232	421027.4	3733829	1.23E-05	5.64E-05	1.23E-07	1.69E-06	7.72E-06	1.84E-08	1.04E-06	3.55E-06	4.26E-09
5233	421035.3	3733834	1.25E-05	5.71E-05	1.25E-07	1.71E-06	7.81E-06	1.86E-08	1.05E-06	3.59E-06	4.31E-09
5234	421043.2	3733839	1.26E-05	5.78E-05	1.26E-07	1.73E-06	7.90E-06	1.88E-08	1.06E-06	3.63E-06	4.36E-09
5235	421051.1	3733844	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.42E-09
5236	421059	3733848	1.29E-05	5.91E-05	1.29E-07	1.77E-06	8.08E-06	1.92E-08	1.09E-06	3.71E-06	4.47E-09
5237	421066.8	3733853	1.31E-05	5.97E-05	1.31E-07	1.79E-06	8.17E-06	1.95E-08	1.10E-06	3.75E-06	4.52E-09
5238	421074.7	3733858	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.56E-09
5239	421082.6	3733863	1.33E-05	6.10E-05	1.33E-07	1.83E-06	8.35E-06	1.99E-08	1.12E-06	3.84E-06	4.61E-09
5240	421090.5	3733867	1.35E-05	6.17E-05	1.35E-07	1.85E-06	8.43E-06	2.01E-08	1.13E-06	3.88E-06	4.66E-09
5241	421098.4	3733872	1.36E-05	6.23E-05	1.36E-07	1.87E-06	8.51E-06	2.03E-08	1.15E-06	3.91E-06	4.71E-09
5242	421106.3	3733877	1.37E-05	6.28E-05	1.37E-07	1.88E-06	8.59E-06	2.05E-08	1.16E-06	3.95E-06	4.75E-09
5243	421114.2	3733882	1.39E-05	6.34E-05	1.39E-07	1.90E-06	8.67E-06	2.06E-08	1.17E-06	3.98E-06	4.79E-09
5244	421122.1	3733887	1.40E-05	6.39E-05	1.40E-07	1.92E-06	8.74E-06	2.08E-08	1.18E-06	4.02E-06	4.83E-09
5245	421130	3733891	1.41E-05	6.44E-05	1.41E-07	1.93E-06	8.81E-06	2.10E-08	1.19E-06	4.05E-06	4.87E-09
5246	421137.9	3733896	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.88E-06	2.11E-08	1.19E-06	4.08E-06	4.91E-09
5247	421145.8	3733901	1.43E-05	6.54E-05	1.43E-07	1.96E-06	8.94E-06	2.13E-08	1.20E-06	4.11E-06	4.94E-09

5248	421153.7	3733906	1.44E-05	6.58E-05	1.44E-07	1.97E-06	8.99E-06	2.14E-08	1.21E-06	4.13E-06	4.97E-09
5249	421161.6	3733910	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.05E-06	2.15E-08	1.22E-06	4.16E-06	5.00E-09
5250	421169.5	3733915	1.45E-05	6.65E-05	1.45E-07	1.99E-06	9.09E-06	2.16E-08	1.22E-06	4.18E-06	5.02E-09
5251	421177.4	3733920	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
5252	421205.6	3733964	1.58E-05	7.22E-05	1.58E-07	2.17E-06	9.88E-06	2.35E-08	1.33E-06	4.54E-06	5.46E-09
5253	421208.7	3733973	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.62E-06	5.55E-09
5254	421211.9	3733982	1.63E-05	7.47E-05	1.63E-07	2.24E-06	1.02E-05	2.43E-08	1.38E-06	4.70E-06	5.65E-09
5255	421230.6	3734034	1.79E-05	8.20E-05	1.79E-07	2.46E-06	1.12E-05	2.67E-08	1.51E-06	5.16E-06	6.20E-09
5256	421233.7	3734043	1.82E-05	8.32E-05	1.82E-07	2.50E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
5257	421236.8	3734051	1.85E-05	8.44E-05	1.84E-07	2.53E-06	1.15E-05	2.75E-08	1.55E-06	5.30E-06	6.38E-09
5258	421239.9	3734060	1.87E-05	8.55E-05	1.87E-07	2.56E-06	1.17E-05	2.78E-08	1.57E-06	5.37E-06	6.46E-09
5259	421243	3734069	1.90E-05	8.67E-05	1.89E-07	2.60E-06	1.18E-05	2.82E-08	1.59E-06	5.45E-06	6.55E-09
5260	421246.2	3734077	1.92E-05	8.78E-05	1.92E-07	2.63E-06	1.20E-05	2.86E-08	1.62E-06	5.52E-06	6.64E-09
5261	421249.3	3734086	1.94E-05	8.89E-05	1.94E-07	2.67E-06	1.22E-05	2.89E-08	1.64E-06	5.59E-06	6.72E-09
5262	421252.4	3734095	1.97E-05	9.00E-05	1.97E-07	2.70E-06	1.23E-05	2.93E-08	1.66E-06	5.66E-06	6.80E-09
5263	421255.5	3734103	1.99E-05	9.11E-05	1.99E-07	2.73E-06	1.25E-05	2.97E-08	1.68E-06	5.73E-06	6.89E-09
5264	421258.6	3734112	2.02E-05	9.23E-05	2.02E-07	2.77E-06	1.26E-05	3.00E-08	1.70E-06	5.80E-06	6.97E-09
5265	421261.7	3734121	2.04E-05	9.34E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.06E-09
5266	421264.9	3734129	2.07E-05	9.46E-05	2.07E-07	2.84E-06	1.29E-05	3.08E-08	1.74E-06	5.94E-06	7.15E-09
5267	421268	3734138	2.09E-05	9.58E-05	2.09E-07	2.87E-06	1.31E-05	3.12E-08	1.76E-06	6.02E-06	7.24E-09
5268	421271.1	3734147	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.78E-06	6.09E-06	7.33E-09
5269	421274.2	3734156	2.15E-05	9.82E-05	2.15E-07	2.94E-06	1.34E-05	3.20E-08	1.81E-06	6.17E-06	7.42E-09
5270	421277.3	3734164	2.18E-05	9.95E-05	2.18E-07	2.98E-06	1.36E-05	3.24E-08	1.83E-06	6.25E-06	7.52E-09
5271	421280.4	3734173	2.21E-05	1.01E-04	2.21E-07	3.02E-06	1.38E-05	3.28E-08	1.86E-06	6.34E-06	7.62E-09
5272	421283.6	3734182	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.43E-06	7.73E-09
5273	421286.7	3734190	2.27E-05	1.04E-04	2.27E-07	3.11E-06	1.42E-05	3.38E-08	1.91E-06	6.52E-06	7.84E-09
5274	421289.8	3734199	2.30E-05	1.05E-04	2.30E-07	3.16E-06	1.44E-05	3.43E-08	1.94E-06	6.62E-06	7.96E-09
5275	421292.9	3734208	2.34E-05	1.07E-04	2.34E-07	3.21E-06	1.46E-05	3.48E-08	1.97E-06	6.72E-06	8.08E-09
5276	421296	3734216	2.38E-05	1.09E-04	2.38E-07	3.26E-06	1.49E-05	3.54E-08	2.00E-06	6.83E-06	8.21E-09
5277	421299.2	3734225	2.42E-05	1.10E-04	2.42E-07	3.31E-06	1.51E-05	3.60E-08	2.03E-06	6.94E-06	8.35E-09
5278	421302.3	3734234	2.46E-05	1.12E-04	2.46E-07	3.37E-06	1.54E-05	3.66E-08	2.07E-06	7.06E-06	8.49E-09
5279	421305.4	3734242	2.50E-05	1.14E-04	2.50E-07	3.43E-06	1.56E-05	3.72E-08	2.10E-06	7.19E-06	8.64E-09
5280	421321	3734286	2.75E-05	1.26E-04	2.75E-07	3.77E-06	1.72E-05	4.10E-08	2.31E-06	7.91E-06	9.51E-09
5281	420861.6	3733729	9.42E-06	4.31E-05	9.42E-08	1.29E-06	5.89E-06	1.40E-08	7.93E-07	2.71E-06	3.26E-09
5282	420852.5	3733727	9.36E-06	4.28E-05	9.35E-08	1.28E-06	5.85E-06	1.39E-08	7.87E-07	2.69E-06	3.23E-09
5283	420843.5	3733725	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
5284	420901.2	3733709	9.00E-06	4.12E-05	9.00E-08	1.23E-06	5.63E-06	1.34E-08	7.58E-07	2.59E-06	3.11E-09
5285	420909.1	3733713	9.11E-06	4.17E-05	9.11E-08	1.25E-06	5.70E-06	1.36E-08	7.67E-07	2.62E-06	3.15E-09
5286	420916.9	3733718	9.23E-06	4.22E-05	9.22E-08	1.26E-06	5.77E-06	1.37E-08	7.76E-07	2.65E-06	3.19E-09
5287	420924.8	3733723	9.34E-06	4.27E-05	9.34E-08	1.28E-06	5.84E-06	1.39E-08	7.86E-07	2.68E-06	3.23E-09
5288	420948.5	3733737	9.69E-06	4.43E-05	9.68E-08	1.33E-06	6.06E-06	1.44E-08	8.15E-07	2.78E-06	3.35E-09
5289	420956.3	3733742	9.80E-06	4.48E-05	9.80E-08	1.34E-06	6.13E-06	1.46E-08	8.25E-07	2.82E-06	3.39E-09
5290	420964.2	3733747	9.92E-06	4.54E-05	9.92E-08	1.36E-06	6.20E-06	1.48E-08	8.35E-07	2.85E-06	3.43E-09
5291	420972.1	3733752	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.28E-06	1.49E-08	8.45E-07	2.89E-06	3.47E-09
5292	420980	3733756	1.02E-05	4.64E-05	1.02E-07	1.39E-06	6.35E-06	1.51E-08	8.55E-07	2.92E-06	3.51E-09
5293	420987.8	3733761	1.03E-05	4.70E-05	1.03E-07	1.41E-06	6.43E-06	1.53E-08	8.65E-07	2.95E-06	3.55E-09
5294	421003.6	3733771	1.05E-05	4.81E-05	1.05E-07	1.44E-06	6.58E-06	1.57E-08	8.85E-07	3.02E-06	3.64E-09
5295	421011.5	3733775	1.06E-05	4.87E-05	1.06E-07	1.46E-06	6.66E-06	1.58E-08	8.96E-07	3.06E-06	3.68E-09
5296	421019.3	3733780	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5297	421027.2	3733785	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.17E-07	3.13E-06	3.76E-09
5298	421035.1	3733790	1.10E-05	5.04E-05	1.10E-07	1.51E-06	6.89E-06	1.64E-08	9.27E-07	3.17E-06	3.81E-09
5299	421043	3733795	1.11E-05	5.10E-05	1.11E-07	1.53E-06	6.97E-06	1.66E-08	9.38E-07	3.20E-06	3.85E-09
5300	421050.8	3733799	1.13E-05	5.15E-05	1.13E-07	1.54E-06	7.04E-06	1.68E-08	9.48E-07	3.24E-06	3.89E-09
5301	421058.7	3733804	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.70E-08	9.59E-07	3.27E-06	3.94E-09
5302	421066.6	3733809	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.20E-06	1.72E-08	9.69E-07	3.31E-06	3.98E-09
5303	421074.5	3733814	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.80E-07	3.35E-06	4.02E-09
5304	421082.4	3733818	1.18E-05	5.38E-05	1.18E-07	1.61E-06	7.36E-06	1.75E-08	9.90E-07	3.38E-06	4.07E-09
5305	421090.2	3733823	1.19E-05	5.44E-05	1.19E-07	1.63E-06	7.43E-06	1.77E-08	1.00E-06	3.42E-06	4.11E-09
5306	421098.1	3733828	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09

5307	421106	3733833	1.21E-05	5.55E-05	1.21E-07	1.66E-06	7.58E-06	1.81E-08	1.02E-06	3.49E-06	4.19E-09
5308	421113.9	3733837	1.22E-05	5.60E-05	1.22E-07	1.68E-06	7.66E-06	1.82E-08	1.03E-06	3.52E-06	4.23E-09
5309	421121.7	3733842	1.24E-05	5.65E-05	1.24E-07	1.69E-06	7.73E-06	1.84E-08	1.04E-06	3.55E-06	4.27E-09
5310	421129.6	3733847	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.80E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
5311	421137.5	3733852	1.26E-05	5.75E-05	1.26E-07	1.72E-06	7.86E-06	1.87E-08	1.06E-06	3.61E-06	4.35E-09
5312	421145.4	3733857	1.27E-05	5.80E-05	1.27E-07	1.74E-06	7.93E-06	1.89E-08	1.07E-06	3.64E-06	4.38E-09
5313	421153.2	3733861	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.42E-09
5314	421161.1	3733866	1.29E-05	5.88E-05	1.29E-07	1.76E-06	8.04E-06	1.91E-08	1.08E-06	3.70E-06	4.44E-09
5315	421169	3733871	1.29E-05	5.92E-05	1.29E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.47E-09
5316	421176.9	3733876	1.30E-05	5.95E-05	1.30E-07	1.79E-06	8.14E-06	1.94E-08	1.10E-06	3.74E-06	4.50E-09
5317	421184.7	3733880	1.31E-05	5.99E-05	1.31E-07	1.80E-06	8.19E-06	1.95E-08	1.10E-06	3.76E-06	4.53E-09
5318	421192.6	3733885	1.32E-05	6.02E-05	1.32E-07	1.80E-06	8.23E-06	1.96E-08	1.11E-06	3.78E-06	4.55E-09
5319	421200.5	3733890	1.32E-05	6.04E-05	1.32E-07	1.81E-06	8.26E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5320	421208.4	3733895	1.33E-05	6.07E-05	1.33E-07	1.82E-06	8.30E-06	1.98E-08	1.12E-06	3.81E-06	4.59E-09
5321	421216.3	3733900	1.33E-05	6.09E-05	1.33E-07	1.83E-06	8.33E-06	1.98E-08	1.12E-06	3.83E-06	4.60E-09
5322	421255.2	3733991	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.76E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5323	421258.3	3734000	1.58E-05	7.23E-05	1.58E-07	2.17E-06	9.89E-06	2.35E-08	1.33E-06	4.55E-06	5.47E-09
5324	421261.5	3734008	1.60E-05	7.33E-05	1.60E-07	2.20E-06	1.00E-05	2.39E-08	1.35E-06	4.61E-06	5.54E-09
5325	421264.6	3734017	1.62E-05	7.42E-05	1.62E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.61E-09
5326	421267.7	3734026	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.72E-06	5.68E-09
5327	421270.8	3734034	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5328	421273.9	3734043	1.68E-05	7.70E-05	1.68E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.84E-06	5.82E-09
5329	421277	3734052	1.70E-05	7.79E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
5330	421280.1	3734060	1.72E-05	7.88E-05	1.72E-07	2.36E-06	1.08E-05	2.57E-08	1.45E-06	4.95E-06	5.96E-09
5331	421283.2	3734069	1.74E-05	7.97E-05	1.74E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.01E-06	6.02E-09
5332	421286.3	3734078	1.76E-05	8.06E-05	1.76E-07	2.42E-06	1.10E-05	2.62E-08	1.48E-06	5.07E-06	6.09E-09
5333	421289.4	3734086	1.78E-05	8.15E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
5334	421292.6	3734095	1.80E-05	8.23E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.51E-06	5.17E-06	6.22E-09
5335	421295.7	3734104	1.82E-05	8.32E-05	1.82E-07	2.49E-06	1.14E-05	2.71E-08	1.53E-06	5.23E-06	6.29E-09
5336	421298.8	3734112	1.84E-05	8.43E-05	1.84E-07	2.53E-06	1.15E-05	2.74E-08	1.55E-06	5.30E-06	6.37E-09
5337	421301.9	3734121	1.86E-05	8.52E-05	1.86E-07	2.55E-06	1.17E-05	2.77E-08	1.57E-06	5.35E-06	6.44E-09
5338	421305	3734130	1.88E-05	8.62E-05	1.88E-07	2.58E-06	1.18E-05	2.81E-08	1.59E-06	5.42E-06	6.51E-09
5339	421308.1	3734138	1.91E-05	8.72E-05	1.91E-07	2.61E-06	1.19E-05	2.84E-08	1.60E-06	5.48E-06	6.59E-09
5340	421311.2	3734147	1.93E-05	8.82E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
5341	421314.3	3734156	1.95E-05	8.93E-05	1.95E-07	2.68E-06	1.22E-05	2.91E-08	1.64E-06	5.61E-06	6.75E-09
5342	421317.4	3734164	1.98E-05	9.04E-05	1.98E-07	2.71E-06	1.24E-05	2.94E-08	1.66E-06	5.68E-06	6.84E-09
5343	421320.5	3734173	2.00E-05	9.16E-05	2.00E-07	2.75E-06	1.25E-05	2.98E-08	1.69E-06	5.76E-06	6.92E-09
5344	421323.7	3734182	2.03E-05	9.28E-05	2.03E-07	2.78E-06	1.27E-05	3.02E-08	1.71E-06	5.84E-06	7.02E-09
5345	421326.8	3734190	2.06E-05	9.42E-05	2.06E-07	2.82E-06	1.29E-05	3.07E-08	1.73E-06	5.92E-06	7.12E-09
5346	421329.9	3734199	2.09E-05	9.55E-05	2.09E-07	2.86E-06	1.31E-05	3.11E-08	1.76E-06	6.00E-06	7.22E-09
5347	421333	3734208	2.12E-05	9.70E-05	2.12E-07	2.91E-06	1.33E-05	3.16E-08	1.78E-06	6.09E-06	7.33E-09
5348	421336.1	3734216	2.15E-05	9.85E-05	2.15E-07	2.95E-06	1.35E-05	3.21E-08	1.81E-06	6.19E-06	7.44E-09
5349	421339.2	3734225	2.19E-05	1.00E-04	2.19E-07	3.00E-06	1.37E-05	3.26E-08	1.84E-06	6.29E-06	7.56E-09
5350	421342.3	3734234	2.23E-05	1.02E-04	2.22E-07	3.05E-06	1.39E-05	3.31E-08	1.87E-06	6.39E-06	7.69E-09
5351	421345.4	3734242	2.26E-05	1.04E-04	2.26E-07	3.10E-06	1.42E-05	3.37E-08	1.91E-06	6.51E-06	7.83E-09
5352	421361	3734286	2.48E-05	1.14E-04	2.48E-07	3.40E-06	1.55E-05	3.70E-08	2.09E-06	7.13E-06	8.58E-09
5353	420869.7	3733690	8.56E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.20E-07	2.46E-06	2.96E-09
5354	420860.6	3733688	8.50E-06	3.89E-05	8.50E-08	1.17E-06	5.32E-06	1.27E-08	7.15E-07	2.44E-06	2.94E-09
5355	420851.6	3733686	8.45E-06	3.86E-05	8.45E-08	1.16E-06	5.28E-06	1.26E-08	7.11E-07	2.43E-06	2.92E-09
5356	420909.2	3733669	8.20E-06	3.75E-05	8.20E-08	1.12E-06	5.13E-06	1.22E-08	6.90E-07	2.36E-06	2.84E-09
5357	420917.1	3733674	8.30E-06	3.79E-05	8.30E-08	1.14E-06	5.19E-06	1.24E-08	6.98E-07	2.38E-06	2.87E-09
5358	420925	3733679	8.40E-06	3.84E-05	8.39E-08	1.15E-06	5.25E-06	1.25E-08	7.06E-07	2.41E-06	2.90E-09
5359	420932.8	3733684	8.49E-06	3.88E-05	8.49E-08	1.16E-06	5.31E-06	1.26E-08	7.14E-07	2.44E-06	2.93E-09
5360	420940.7	3733688	8.59E-06	3.93E-05	8.59E-08	1.18E-06	5.37E-06	1.28E-08	7.23E-07	2.47E-06	2.97E-09
5361	420972.1	3733708	8.99E-06	4.11E-05	8.98E-08	1.23E-06	5.62E-06	1.34E-08	7.56E-07	2.58E-06	3.11E-09
5362	420980	3733712	9.09E-06	4.15E-05	9.08E-08	1.25E-06	5.68E-06	1.35E-08	7.64E-07	2.61E-06	3.14E-09
5363	420987.8	3733717	9.19E-06	4.20E-05	9.19E-08	1.26E-06	5.75E-06	1.37E-08	7.73E-07	2.64E-06	3.18E-09
5364	420995.7	3733722	9.29E-06	4.25E-05	9.29E-08	1.27E-06	5.81E-06	1.38E-08	7.82E-07	2.67E-06	3.21E-09
5365	421003.6	3733727	9.39E-06	4.30E-05	9.39E-08	1.29E-06	5.87E-06	1.40E-08	7.90E-07	2.70E-06	3.25E-09

5366	421027.1	3733741	9.71E-06	4.44E-05	9.70E-08	1.33E-06	6.07E-06	1.45E-08	8.17E-07	2.79E-06	3.35E-09
5367	421035	3733746	9.81E-06	4.49E-05	9.81E-08	1.35E-06	6.14E-06	1.46E-08	8.26E-07	2.82E-06	3.39E-09
5368	421042.9	3733750	9.92E-06	4.54E-05	9.92E-08	1.36E-06	6.20E-06	1.48E-08	8.35E-07	2.85E-06	3.43E-09
5369	421050.7	3733755	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
5370	421058.6	3733760	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.34E-06	1.51E-08	8.53E-07	2.91E-06	3.50E-09
5371	421066.4	3733765	1.02E-05	4.68E-05	1.02E-07	1.40E-06	6.41E-06	1.52E-08	8.62E-07	2.94E-06	3.54E-09
5372	421074.3	3733769	1.04E-05	4.73E-05	1.03E-07	1.42E-06	6.47E-06	1.54E-08	8.71E-07	2.98E-06	3.58E-09
5373	421082.2	3733774	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.62E-09
5374	421090	3733779	1.06E-05	4.83E-05	1.06E-07	1.45E-06	6.61E-06	1.57E-08	8.89E-07	3.04E-06	3.65E-09
5375	421097.9	3733784	1.07E-05	4.88E-05	1.07E-07	1.46E-06	6.68E-06	1.59E-08	8.98E-07	3.07E-06	3.69E-09
5376	421105.7	3733788	1.08E-05	4.93E-05	1.08E-07	1.48E-06	6.74E-06	1.61E-08	9.07E-07	3.10E-06	3.73E-09
5377	421113.6	3733793	1.09E-05	4.98E-05	1.09E-07	1.49E-06	6.81E-06	1.62E-08	9.16E-07	3.13E-06	3.76E-09
5378	421121.5	3733798	1.10E-05	5.03E-05	1.10E-07	1.51E-06	6.87E-06	1.64E-08	9.25E-07	3.16E-06	3.80E-09
5379	421129.3	3733803	1.11E-05	5.07E-05	1.11E-07	1.52E-06	6.94E-06	1.65E-08	9.33E-07	3.19E-06	3.83E-09
5380	421137.2	3733808	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.42E-07	3.22E-06	3.87E-09
5381	421145.1	3733812	1.13E-05	5.16E-05	1.13E-07	1.55E-06	7.06E-06	1.68E-08	9.50E-07	3.24E-06	3.90E-09
5382	421152.9	3733817	1.14E-05	5.21E-05	1.14E-07	1.56E-06	7.12E-06	1.69E-08	9.58E-07	3.27E-06	3.93E-09
5383	421160.8	3733822	1.15E-05	5.25E-05	1.15E-07	1.57E-06	7.18E-06	1.71E-08	9.66E-07	3.30E-06	3.97E-09
5384	421168.6	3733827	1.16E-05	5.29E-05	1.16E-07	1.59E-06	7.23E-06	1.72E-08	9.73E-07	3.32E-06	4.00E-09
5385	421176.5	3733831	1.16E-05	5.32E-05	1.16E-07	1.60E-06	7.28E-06	1.73E-08	9.80E-07	3.35E-06	4.02E-09
5386	421184.4	3733836	1.17E-05	5.36E-05	1.17E-07	1.61E-06	7.33E-06	1.75E-08	9.87E-07	3.37E-06	4.05E-09
5387	421192.2	3733841	1.18E-05	5.39E-05	1.18E-07	1.62E-06	7.38E-06	1.76E-08	9.93E-07	3.39E-06	4.08E-09
5388	421200.1	3733846	1.19E-05	5.43E-05	1.19E-07	1.63E-06	7.42E-06	1.77E-08	9.98E-07	3.41E-06	4.10E-09
5389	421207.9	3733850	1.19E-05	5.46E-05	1.19E-07	1.64E-06	7.46E-06	1.78E-08	1.00E-06	3.43E-06	4.12E-09
5390	421215.8	3733855	1.20E-05	5.48E-05	1.20E-07	1.64E-06	7.50E-06	1.79E-08	1.01E-06	3.45E-06	4.14E-09
5391	421264.4	3733905	1.28E-05	5.84E-05	1.28E-07	1.75E-06	7.99E-06	1.90E-08	1.07E-06	3.67E-06	4.41E-09
5392	421267.5	3733914	1.30E-05	5.92E-05	1.30E-07	1.78E-06	8.10E-06	1.93E-08	1.09E-06	3.72E-06	4.48E-09
5393	421270.6	3733922	1.31E-05	6.01E-05	1.31E-07	1.80E-06	8.22E-06	1.96E-08	1.11E-06	3.78E-06	4.54E-09
5394	421286.1	3733965	1.41E-05	6.44E-05	1.41E-07	1.93E-06	8.80E-06	2.10E-08	1.18E-06	4.04E-06	4.86E-09
5395	421289.2	3733974	1.43E-05	6.52E-05	1.42E-07	1.95E-06	8.91E-06	2.12E-08	1.20E-06	4.10E-06	4.93E-09
5396	421292.3	3733983	1.44E-05	6.60E-05	1.44E-07	1.98E-06	9.02E-06	2.15E-08	1.21E-06	4.15E-06	4.99E-09
5397	421295.5	3733991	1.46E-05	6.68E-05	1.46E-07	2.00E-06	9.13E-06	2.17E-08	1.23E-06	4.20E-06	5.05E-09
5398	421298.6	3734000	1.48E-05	6.76E-05	1.48E-07	2.03E-06	9.24E-06	2.20E-08	1.24E-06	4.25E-06	5.11E-09
5399	421301.7	3734009	1.49E-05	6.83E-05	1.49E-07	2.05E-06	9.34E-06	2.22E-08	1.26E-06	4.29E-06	5.16E-09
5400	421304.8	3734017	1.51E-05	6.91E-05	1.51E-07	2.07E-06	9.45E-06	2.25E-08	1.27E-06	4.34E-06	5.22E-09
5401	421307.9	3734026	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.28E-06	4.39E-06	5.28E-09
5402	421311	3734035	1.54E-05	7.06E-05	1.54E-07	2.12E-06	9.65E-06	2.30E-08	1.30E-06	4.44E-06	5.33E-09
5403	421314.1	3734043	1.56E-05	7.13E-05	1.56E-07	2.14E-06	9.75E-06	2.32E-08	1.31E-06	4.48E-06	5.39E-09
5404	421317.2	3734052	1.58E-05	7.20E-05	1.58E-07	2.16E-06	9.85E-06	2.35E-08	1.33E-06	4.53E-06	5.45E-09
5405	421320.3	3734061	1.59E-05	7.28E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.58E-06	5.50E-09
5406	421323.4	3734069	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.01E-05	2.39E-08	1.35E-06	4.62E-06	5.56E-09
5407	421326.5	3734078	1.62E-05	7.43E-05	1.62E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.61E-09
5408	421329.6	3734087	1.64E-05	7.50E-05	1.64E-07	2.25E-06	1.03E-05	2.44E-08	1.38E-06	4.71E-06	5.67E-09
5409	421332.7	3734095	1.66E-05	7.57E-05	1.66E-07	2.27E-06	1.04E-05	2.47E-08	1.39E-06	4.76E-06	5.72E-09
5410	421335.8	3734104	1.67E-05	7.65E-05	1.67E-07	2.29E-06	1.05E-05	2.49E-08	1.41E-06	4.81E-06	5.78E-09
5411	421338.9	3734113	1.69E-05	7.73E-05	1.69E-07	2.32E-06	1.06E-05	2.52E-08	1.42E-06	4.86E-06	5.84E-09
5412	421342	3734121	1.71E-05	7.81E-05	1.71E-07	2.34E-06	1.07E-05	2.54E-08	1.44E-06	4.91E-06	5.90E-09
5413	421345.1	3734130	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.96E-06	5.97E-09
5414	421348.2	3734139	1.75E-05	7.98E-05	1.75E-07	2.39E-06	1.09E-05	2.60E-08	1.47E-06	5.02E-06	6.03E-09
5415	421351.3	3734147	1.77E-05	8.07E-05	1.76E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.07E-06	6.10E-09
5416	421354.4	3734156	1.79E-05	8.17E-05	1.79E-07	2.45E-06	1.12E-05	2.66E-08	1.50E-06	5.13E-06	6.17E-09
5417	421357.5	3734164	1.81E-05	8.26E-05	1.81E-07	2.48E-06	1.13E-05	2.69E-08	1.52E-06	5.19E-06	6.25E-09
5418	421360.6	3734173	1.83E-05	8.37E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.26E-06	6.33E-09
5419	421363.7	3734182	1.85E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
5420	421366.8	3734190	1.88E-05	8.59E-05	1.88E-07	2.58E-06	1.17E-05	2.80E-08	1.58E-06	5.40E-06	6.49E-09
5421	421369.9	3734199	1.90E-05	8.71E-05	1.90E-07	2.61E-06	1.19E-05	2.83E-08	1.60E-06	5.47E-06	6.58E-09
5422	421373.1	3734208	1.93E-05	8.83E-05	1.93E-07	2.65E-06	1.21E-05	2.87E-08	1.62E-06	5.55E-06	6.67E-09
5423	421376.2	3734216	1.96E-05	8.95E-05	1.96E-07	2.68E-06	1.22E-05	2.92E-08	1.65E-06	5.63E-06	6.77E-09
5424	421379.3	3734225	1.99E-05	9.08E-05	1.98E-07	2.72E-06	1.24E-05	2.96E-08	1.67E-06	5.70E-06	6.86E-09

5425	421382.4	3734234	2.01E-05	9.20E-05	2.01E-07	2.76E-06	1.26E-05	3.00E-08	1.69E-06	5.78E-06	6.96E-09
5426	421385.5	3734242	2.04E-05	9.33E-05	2.04E-07	2.80E-06	1.28E-05	3.04E-08	1.72E-06	5.87E-06	7.05E-09
5427	421401	3734286	2.24E-05	1.02E-04	2.24E-07	3.07E-06	1.40E-05	3.33E-08	1.88E-06	6.43E-06	7.73E-09
5428	420877.8	3733650	7.83E-06	3.58E-05	7.82E-08	1.07E-06	4.89E-06	1.17E-08	6.58E-07	2.25E-06	2.70E-09
5429	420868.8	3733648	7.78E-06	3.56E-05	7.78E-08	1.07E-06	4.86E-06	1.16E-08	6.55E-07	2.24E-06	2.69E-09
5430	420859.7	3733647	7.74E-06	3.54E-05	7.73E-08	1.06E-06	4.84E-06	1.15E-08	6.51E-07	2.22E-06	2.67E-09
5431	420893.7	3733616	7.29E-06	3.33E-05	7.28E-08	9.99E-07	4.56E-06	1.08E-08	6.13E-07	2.09E-06	2.52E-09
5432	420917.3	3733630	7.53E-06	3.44E-05	7.53E-08	1.03E-06	4.71E-06	1.12E-08	6.34E-07	2.16E-06	2.60E-09
5433	420925.1	3733635	7.61E-06	3.48E-05	7.61E-08	1.04E-06	4.76E-06	1.13E-08	6.41E-07	2.19E-06	2.63E-09
5434	420933	3733640	7.70E-06	3.52E-05	7.69E-08	1.05E-06	4.81E-06	1.15E-08	6.47E-07	2.21E-06	2.66E-09
5435	420940.8	3733644	7.78E-06	3.56E-05	7.77E-08	1.07E-06	4.86E-06	1.16E-08	6.54E-07	2.23E-06	2.69E-09
5436	420948.7	3733649	7.86E-06	3.59E-05	7.85E-08	1.08E-06	4.91E-06	1.17E-08	6.61E-07	2.26E-06	2.72E-09
5437	420956.5	3733654	7.95E-06	3.63E-05	7.94E-08	1.09E-06	4.97E-06	1.18E-08	6.68E-07	2.28E-06	2.75E-09
5438	420964.4	3733659	8.03E-06	3.67E-05	8.02E-08	1.10E-06	5.02E-06	1.19E-08	6.75E-07	2.31E-06	2.77E-09
5439	420995.7	3733678	8.37E-06	3.83E-05	8.37E-08	1.15E-06	5.23E-06	1.25E-08	7.04E-07	2.41E-06	2.89E-09
5440	421003.6	3733683	8.46E-06	3.87E-05	8.45E-08	1.16E-06	5.29E-06	1.26E-08	7.12E-07	2.43E-06	2.92E-09
5441	421011.4	3733687	8.55E-06	3.91E-05	8.55E-08	1.17E-06	5.35E-06	1.27E-08	7.19E-07	2.46E-06	2.95E-09
5442	421019.3	3733692	8.64E-06	3.95E-05	8.63E-08	1.18E-06	5.40E-06	1.29E-08	7.27E-07	2.48E-06	2.98E-09
5443	421027.1	3733697	8.73E-06	3.99E-05	8.72E-08	1.20E-06	5.46E-06	1.30E-08	7.34E-07	2.51E-06	3.02E-09
5444	421050.7	3733711	9.00E-06	4.11E-05	8.99E-08	1.23E-06	5.63E-06	1.34E-08	7.57E-07	2.59E-06	3.11E-09
5445	421058.5	3733716	9.09E-06	4.16E-05	9.09E-08	1.25E-06	5.69E-06	1.35E-08	7.65E-07	2.61E-06	3.14E-09
5446	421066.4	3733721	9.19E-06	4.20E-05	9.18E-08	1.26E-06	5.74E-06	1.37E-08	7.73E-07	2.64E-06	3.17E-09
5447	421074.2	3733725	9.28E-06	4.24E-05	9.28E-08	1.27E-06	5.80E-06	1.38E-08	7.81E-07	2.67E-06	3.21E-09
5448	421082.1	3733730	9.38E-06	4.29E-05	9.37E-08	1.29E-06	5.86E-06	1.40E-08	7.89E-07	2.69E-06	3.24E-09
5449	421089.9	3733735	9.47E-06	4.33E-05	9.46E-08	1.30E-06	5.92E-06	1.41E-08	7.97E-07	2.72E-06	3.27E-09
5450	421097.8	3733740	9.56E-06	4.37E-05	9.56E-08	1.31E-06	5.98E-06	1.42E-08	8.05E-07	2.75E-06	3.30E-09
5451	421105.6	3733744	9.66E-06	4.42E-05	9.65E-08	1.32E-06	6.04E-06	1.44E-08	8.13E-07	2.78E-06	3.34E-09
5452	421113.4	3733749	9.75E-06	4.46E-05	9.74E-08	1.34E-06	6.10E-06	1.45E-08	8.20E-07	2.80E-06	3.37E-09
5453	421121.3	3733754	9.84E-06	4.50E-05	9.84E-08	1.35E-06	6.15E-06	1.47E-08	8.28E-07	2.83E-06	3.40E-09
5454	421129.1	3733759	9.94E-06	4.54E-05	9.94E-08	1.36E-06	6.21E-06	1.48E-08	8.36E-07	2.86E-06	3.44E-09
5455	421137	3733763	1.00E-05	4.59E-05	1.00E-07	1.38E-06	6.27E-06	1.49E-08	8.44E-07	2.88E-06	3.47E-09
5456	421144.8	3733768	1.01E-05	4.63E-05	1.01E-07	1.39E-06	6.33E-06	1.51E-08	8.52E-07	2.91E-06	3.50E-09
5457	421152.7	3733773	1.02E-05	4.67E-05	1.02E-07	1.40E-06	6.39E-06	1.52E-08	8.59E-07	2.93E-06	3.53E-09
5458	421160.5	3733778	1.03E-05	4.71E-05	1.03E-07	1.41E-06	6.44E-06	1.53E-08	8.66E-07	2.96E-06	3.56E-09
5459	421168.4	3733782	1.04E-05	4.75E-05	1.04E-07	1.42E-06	6.49E-06	1.55E-08	8.73E-07	2.98E-06	3.59E-09
5460	421176.2	3733787	1.05E-05	4.78E-05	1.05E-07	1.43E-06	6.54E-06	1.56E-08	8.80E-07	3.01E-06	3.62E-09
5461	421184.1	3733792	1.05E-05	4.82E-05	1.05E-07	1.45E-06	6.59E-06	1.57E-08	8.87E-07	3.03E-06	3.64E-09
5462	421191.9	3733797	1.06E-05	4.86E-05	1.06E-07	1.46E-06	6.64E-06	1.58E-08	8.94E-07	3.05E-06	3.67E-09
5463	421199.8	3733801	1.07E-05	4.89E-05	1.07E-07	1.47E-06	6.69E-06	1.59E-08	9.00E-07	3.07E-06	3.70E-09
5464	421207.6	3733806	1.08E-05	4.92E-05	1.08E-07	1.48E-06	6.73E-06	1.60E-08	9.06E-07	3.09E-06	3.72E-09
5465	421215.5	3733811	1.08E-05	4.95E-05	1.08E-07	1.48E-06	6.77E-06	1.61E-08	9.11E-07	3.11E-06	3.74E-09
5466	421270.4	3733844	1.12E-05	5.10E-05	1.12E-07	1.53E-06	6.98E-06	1.66E-08	9.39E-07	3.21E-06	3.86E-09
5467	421278.2	3733849	1.12E-05	5.12E-05	1.12E-07	1.53E-06	7.00E-06	1.67E-08	9.41E-07	3.22E-06	3.87E-09
5468	421289.2	3733862	1.14E-05	5.20E-05	1.14E-07	1.56E-06	7.11E-06	1.69E-08	9.57E-07	3.27E-06	3.93E-09
5469	421292.3	3733871	1.15E-05	5.27E-05	1.15E-07	1.58E-06	7.21E-06	1.72E-08	9.71E-07	3.31E-06	3.99E-09
5470	421295.4	3733880	1.17E-05	5.35E-05	1.17E-07	1.60E-06	7.31E-06	1.74E-08	9.84E-07	3.36E-06	4.04E-09
5471	421298.5	3733888	1.19E-05	5.42E-05	1.18E-07	1.62E-06	7.41E-06	1.76E-08	9.97E-07	3.41E-06	4.10E-09
5472	421301.6	3733897	1.20E-05	5.49E-05	1.20E-07	1.65E-06	7.51E-06	1.79E-08	1.01E-06	3.45E-06	4.15E-09
5473	421304.7	3733905	1.22E-05	5.56E-05	1.22E-07	1.67E-06	7.61E-06	1.81E-08	1.02E-06	3.50E-06	4.20E-09
5474	421307.8	3733914	1.23E-05	5.63E-05	1.23E-07	1.69E-06	7.70E-06	1.83E-08	1.04E-06	3.54E-06	4.26E-09
5475	421310.9	3733923	1.25E-05	5.70E-05	1.25E-07	1.71E-06	7.80E-06	1.86E-08	1.05E-06	3.58E-06	4.31E-09
5476	421326.4	3733966	1.32E-05	6.05E-05	1.32E-07	1.81E-06	8.27E-06	1.97E-08	1.11E-06	3.80E-06	4.57E-09
5477	421329.4	3733975	1.34E-05	6.11E-05	1.34E-07	1.83E-06	8.36E-06	1.99E-08	1.12E-06	3.84E-06	4.62E-09
5478	421332.5	3733983	1.35E-05	6.18E-05	1.35E-07	1.85E-06	8.45E-06	2.01E-08	1.14E-06	3.88E-06	4.67E-09
5479	421335.6	3733992	1.37E-05	6.24E-05	1.36E-07	1.87E-06	8.54E-06	2.03E-08	1.15E-06	3.92E-06	4.72E-09
5480	421338.7	3734000	1.38E-05	6.30E-05	1.38E-07	1.89E-06	8.62E-06	2.05E-08	1.16E-06	3.96E-06	4.77E-09
5481	421341.8	3734009	1.39E-05	6.37E-05	1.39E-07	1.91E-06	8.71E-06	2.07E-08	1.17E-06	4.00E-06	4.81E-09
5482	421344.9	3734018	1.41E-05	6.43E-05	1.41E-07	1.93E-06	8.79E-06	2.09E-08	1.18E-06	4.04E-06	4.86E-09
5483	421348	3734026	1.42E-05	6.49E-05	1.42E-07	1.95E-06	8.87E-06	2.11E-08	1.19E-06	4.08E-06	4.91E-09

5484	421351.1	3734035	1.43E-05	6.55E-05	1.43E-07	1.96E-06	8.96E-06	2.13E-08	1.21E-06	4.12E-06	4.95E-09
5485	421354.2	3734044	1.45E-05	6.61E-05	1.45E-07	1.98E-06	9.04E-06	2.15E-08	1.22E-06	4.15E-06	5.00E-09
5486	421357.3	3734052	1.46E-05	6.67E-05	1.46E-07	2.00E-06	9.12E-06	2.17E-08	1.23E-06	4.19E-06	5.04E-09
5487	421360.4	3734061	1.47E-05	6.73E-05	1.47E-07	2.02E-06	9.20E-06	2.19E-08	1.24E-06	4.23E-06	5.09E-09
5488	421363.5	3734070	1.49E-05	6.79E-05	1.48E-07	2.04E-06	9.29E-06	2.21E-08	1.25E-06	4.27E-06	5.13E-09
5489	421366.6	3734078	1.50E-05	6.85E-05	1.50E-07	2.05E-06	9.37E-06	2.23E-08	1.26E-06	4.31E-06	5.18E-09
5490	421369.7	3734087	1.51E-05	6.92E-05	1.51E-07	2.07E-06	9.46E-06	2.25E-08	1.27E-06	4.35E-06	5.23E-09
5491	421372.8	3734095	1.53E-05	6.98E-05	1.53E-07	2.09E-06	9.55E-06	2.27E-08	1.29E-06	4.39E-06	5.28E-09
5492	421375.9	3734104	1.54E-05	7.05E-05	1.54E-07	2.11E-06	9.64E-06	2.30E-08	1.30E-06	4.43E-06	5.33E-09
5493	421379	3734113	1.56E-05	7.12E-05	1.56E-07	2.14E-06	9.74E-06	2.32E-08	1.31E-06	4.48E-06	5.38E-09
5494	421382.1	3734121	1.57E-05	7.20E-05	1.57E-07	2.16E-06	9.84E-06	2.34E-08	1.32E-06	4.52E-06	5.44E-09
5495	421385.2	3734130	1.59E-05	7.27E-05	1.59E-07	2.18E-06	9.95E-06	2.37E-08	1.34E-06	4.57E-06	5.50E-09
5496	421388.3	3734139	1.61E-05	7.35E-05	1.61E-07	2.20E-06	1.01E-05	2.39E-08	1.35E-06	4.62E-06	5.56E-09
5497	421391.4	3734147	1.63E-05	7.43E-05	1.63E-07	2.23E-06	1.02E-05	2.42E-08	1.37E-06	4.67E-06	5.62E-09
5498	421394.5	3734156	1.64E-05	7.52E-05	1.64E-07	2.25E-06	1.03E-05	2.45E-08	1.38E-06	4.73E-06	5.68E-09
5499	421397.6	3734165	1.66E-05	7.61E-05	1.66E-07	2.28E-06	1.04E-05	2.48E-08	1.40E-06	4.78E-06	5.75E-09
5500	421400.7	3734173	1.68E-05	7.70E-05	1.68E-07	2.31E-06	1.05E-05	2.51E-08	1.42E-06	4.84E-06	5.82E-09
5501	421403.8	3734182	1.71E-05	7.80E-05	1.70E-07	2.34E-06	1.07E-05	2.54E-08	1.43E-06	4.90E-06	5.89E-09
5502	421406.9	3734190	1.73E-05	7.90E-05	1.73E-07	2.37E-06	1.08E-05	2.57E-08	1.45E-06	4.97E-06	5.97E-09
5503	421410	3734199	1.75E-05	8.00E-05	1.75E-07	2.40E-06	1.09E-05	2.61E-08	1.47E-06	5.03E-06	6.05E-09
5504	421413.1	3734208	1.77E-05	8.08E-05	1.77E-07	2.42E-06	1.10E-05	2.63E-08	1.49E-06	5.08E-06	6.10E-09
5505	421416.2	3734216	1.78E-05	8.15E-05	1.78E-07	2.44E-06	1.11E-05	2.65E-08	1.50E-06	5.12E-06	6.16E-09
5506	421419.3	3734225	1.80E-05	8.24E-05	1.80E-07	2.47E-06	1.13E-05	2.68E-08	1.52E-06	5.18E-06	6.23E-09
5507	421422.4	3734234	1.83E-05	8.36E-05	1.83E-07	2.51E-06	1.14E-05	2.72E-08	1.54E-06	5.25E-06	6.32E-09
5508	421425.5	3734242	1.86E-05	8.48E-05	1.85E-07	2.54E-06	1.16E-05	2.76E-08	1.56E-06	5.33E-06	6.41E-09
5509	421441	3734285	2.06E-05	9.42E-05	2.06E-07	2.83E-06	1.29E-05	3.07E-08	1.73E-06	5.92E-06	7.12E-09
5510	420885.9	3733611	7.20E-06	3.29E-05	7.20E-08	9.88E-07	4.50E-06	1.07E-08	6.06E-07	2.07E-06	2.49E-09
5511	420876.9	3733609	7.16E-06	3.28E-05	7.16E-08	9.82E-07	4.48E-06	1.07E-08	6.03E-07	2.06E-06	2.48E-09
5512	420867.8	3733607	7.12E-06	3.26E-05	7.12E-08	9.76E-07	4.45E-06	1.06E-08	5.99E-07	2.05E-06	2.46E-09

PM 10				
Tons/Yr	T2	T2Rev	T3L3	T4
Year 1	0.012875	0.01881	0.002579	0.001583
Year 2	0.086	0.086	0.01176	0.005405
Year 3	0.000188	0.000188	0.000028	6.5E-06
Year 4	0	0	0	0

PM 10				
Lbs /Yr	T2	T2Rev	T3L3	T4
Year 1	25.75	37.62	5.157	3.165
Year 2	172	172	23.52	10.81
Year 3	0.376	0.376	0.056	0.013
Year 4	0	0	0	0

PM 10				
% Chng	T2	T2Rev	T3L3	T4
Year 1	100%	146%	20%	12%
Year 2	100%	100%	14%	6%
Year 3	100%	100%	15%	3%
Year 4	0%	0%	0%	0%

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 5/26/2024
** File: D:\LSA\2024\20241677 Extra Space Storage 4th Street\Construction\Construction.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE D:\LSA\2024\20241677 Extra Space Storage 4th Street\Construction\Con
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 3010232
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL Construction.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION CONST        AREAPOLY   420683.349  3734534.766       44.000
** Source Parameters **
   SRCPARAM CONST        0.0002845928     3.048         9
   AREAVERT CONST        420683.349 3734534.766 420683.123 3734439.750
   AREAVERT CONST        420683.098 3734428.461 420720.063 3734428.436
   AREAVERT CONST        420720.288 3734497.145 420731.327 3734497.370
   AREAVERT CONST        420730.651 3734517.194 420716.909 3734517.420
   AREAVERT CONST        420716.684 3734534.541
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 1.0 1.0 1.0 1.0
   EMISFACT CONST        HRDOW 1.0 1.0 1.0 1.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT CONST        HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP CONST    CONST
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Construction.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE "..\John Wayne Airport\KSNA_v9.SFC"
   PROFFILE "..\John Wayne Airport\KSNA_v9.PFL"
   SURFDATA 93184 2012
   UAIRDATA 3190 2012
   PROFBASE 17.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 CONST 1ST Construction.AD\01H1G001.PLT 31
   PLOTFILE PERIOD CONST Construction.AD\PE00G001.PLT 32
   SUMMFILE Construction.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)
```

```
   ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186      86       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187      86       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

**********************************
*** SETUP Finishes Successfully ***
**********************************
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 3010232.0 ; Urban Roughness Length = 1.000 m
* Urban Roughness Length of 1.0 Meter Used.
* ADJ_U* - Use ADJ_U* option for SBL in AERMET
* CCVR_Sub - Meteorological data includes CCVR substitutions
* TEMP_Sub - Meteorological data includes TEMP substitutions
* Model Assumes No FLAGPOLE Receptor Heights.
* The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 1 Source(s); 1 Source Group(s); and 5512 Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 1 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)
and: 0 SWPOINT source(s)

**Model Set To Continue RUNning After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:
Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

```
**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours

**Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =    17.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =      4.1 MB of RAM.

**Input Runstream File:          aermod.inp
**Output Print File:             aermod.out

**Detailed Error/Message File:   Construction.err
**File for Summary of Results:   Construction.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
CONST	0	0.28459E-03	420683.3	3734534.8	44.0	3.05	9	0.00	YES	HRDOW	NO

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
CONST	CONST ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
3010232.	CONST ,	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = CONST ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

```
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\John Wayne Airport\KSNA_v9.SFC Met Version: 16216
Profile file: ..\John Wayne Airport\KSNA_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 93184 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-4.5	0.082	-9.000	-9.000	-999.	56.	11.0	0.12	2.65	1.00	0.87	62.	5.8	283.8	2.0
12	01	01	1	02	-3.5	0.073	-9.000	-9.000	-999.	47.	9.9	0.12	2.65	1.00	0.77	27.	5.8	283.1	2.0
12	01	01	1	03	-3.5	0.073	-9.000	-9.000	-999.	47.	9.9	0.12	2.65	1.00	0.77	336.	5.8	283.1	2.0
12	01	01	1	04	-3.3	0.070	-9.000	-9.000	-999.	45.	9.7	0.12	2.65	1.00	0.74	34.	5.8	283.1	2.0
12	01	01	1	05	-3.0	0.068	-9.000	-9.000	-999.	42.	9.4	0.12	2.65	1.00	0.70	154.	5.8	282.5	2.0
12	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.12	2.65	1.00	0.00	0.	5.8	282.0	2.0
12	01	01	1	07	-2.0	0.059	-9.000	-9.000	-999.	34.	9.0	0.12	2.65	1.00	0.55	343.	5.8	281.4	2.0
12	01	01	1	08	-2.6	0.066	-9.000	-9.000	-999.	40.	9.7	0.12	2.65	0.53	0.69	25.	5.8	281.4	2.0
12	01	01	1	09	21.6	0.133	0.252	0.010	27.	116.	-9.9	0.12	2.65	0.31	1.03	344.	5.8	282.5	2.0
12	01	01	1	10	115.6	0.162	0.713	0.008	114.	156.	-3.3	0.12	2.65	0.24	1.06	233.	5.8	286.4	2.0
12	01	01	1	11	160.9	0.126	1.129	0.005	325.	108.	-1.1	0.12	2.65	0.21	0.67	261.	5.8	291.4	2.0
12	01	01	1	12	187.0	0.138	1.467	0.005	614.	123.	-1.3	0.12	2.65	0.20	0.75	252.	5.8	294.9	2.0
12	01	01	1	13	186.9	0.189	1.755	0.005	1051.	197.	-3.3	0.12	2.65	0.20	1.23	280.	5.8	297.5	2.0
12	01	01	1	14	168.3	0.247	1.857	0.005	1383.	295.	-8.1	0.12	2.65	0.21	1.86	268.	5.8	299.2	2.0
12	01	01	1	15	115.3	0.275	1.688	0.005	1517.	346.	-16.3	0.12	2.65	0.24	2.25	248.	5.8	298.1	2.0
12	01	01	1	16	41.5	0.262	1.211	0.005	1552.	322.	-39.2	0.12	2.65	0.33	2.32	227.	5.8	295.9	2.0
12	01	01	1	17	-17.9	0.217	-9.000	-9.000	-999.	244.	52.0	0.12	2.65	0.60	2.18	227.	5.8	292.5	2.0
12	01	01	1	18	-24.7	0.250	-9.000	-9.000	-999.	300.	68.7	0.12	2.65	1.00	2.50	219.	5.8	288.8	2.0
12	01	01	1	19	-5.2	0.088	-9.000	-9.000	-999.	91.	12.0	0.12	2.65	1.00	0.94	201.	5.8	287.5	2.0
12	01	01	1	20	-3.5	0.073	-9.000	-9.000	-999.	47.	10.0	0.12	2.65	1.00	0.77	259.	5.8	287.0	2.0
12	01	01	1	21	-2.6	0.064	-9.000	-9.000	-999.	39.	9.1	0.12	2.65	1.00	0.65	264.	5.8	286.4	2.0
12	01	01	1	22	-4.4	0.081	-9.000	-9.000	-999.	55.	10.9	0.12	2.65	1.00	0.86	211.	5.8	285.9	2.0
12	01	01	1	23	-4.2	0.079	-9.000	-9.000	-999.	53.	10.7	0.12	2.65	1.00	0.84	247.	5.8	284.9	2.0
12	01	01	1	24	-7.1	0.103	-9.000	-9.000	-999.	80.	14.1	0.12	2.65	1.00	1.09	236.	5.8	283.8	2.0

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	5.8	1	62.	0.87	283.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)					OF TYPE	NETWORK GRID-ID
CONST	1ST HIGHEST VALUE IS	54.47766 AT	(420743.32,	3734467.82,	43.00,	43.00,	0.00)	DC	
	2ND HIGHEST VALUE IS	45.88992 AT	(420743.26,	3734458.54,	42.95,	42.95,	0.00)	DC	
	3RD HIGHEST VALUE IS	37.03014 AT	(420753.32,	3734467.75,	43.11,	43.11,	0.00)	DC	
	4TH HIGHEST VALUE IS	35.21500 AT	(420743.19,	3734449.27,	42.64,	42.64,	0.00)	DC	
	5TH HIGHEST VALUE IS	30.70132 AT	(420753.26,	3734458.47,	43.06,	43.06,	0.00)	DC	
	6TH HIGHEST VALUE IS	30.46220 AT	(420733.37,	3734574.94,	44.46,	44.46,	0.00)	DC	
	7TH HIGHEST VALUE IS	28.55255 AT	(420771.64,	3734561.95,	42.96,	42.96,	0.00)	DC	
	8TH HIGHEST VALUE IS	28.39346 AT	(420724.18,	3734575.07,	44.26,	44.26,	0.00)	DC	
	9TH HIGHEST VALUE IS	24.33719 AT	(420715.00,	3734575.20,	43.99,	43.99,	0.00)	DC	
	10TH HIGHEST VALUE IS	24.29234 AT	(420743.12,	3734439.99,	42.33,	42.33,	0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
CONST	HIGH 1ST HIGH VALUE IS 1476.11995	ON 14012116:	AT (420743.32, 3734467.82, 43.00, 43.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1864 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1500 Calm Hours Identified

A Total of 364 Missing Hours Identified (0.83 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
ME W186 86 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used 0.50
ME W187 86 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

****
*** AERMOD Finishes Successfully ***
****

HARP2 - HRACalc (dated 22118) 5/28/2024 11:27:43 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 9
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 1
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year1_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year1_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year1_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year1_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year1_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year1_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/29/2024 12:04:59 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 10
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 1
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year2_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year2_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year2_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year2_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year2_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year2_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/29/2024 12:06:56 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 11
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 1
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year3_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year3_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year3_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year3_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year3_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_School_Year3_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/28/2024 10:20:35 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year1_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year1_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year1_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year1_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year1_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year1_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/28/2024 10:43:32 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 17
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year2_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year2_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year2_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year2_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year2_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year2_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/28/2024 10:45:26 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 18
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 1
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year3_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year3_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year3_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year3_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year3_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Worker_Year3_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/28/2024 9:34:19 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: ON

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year1_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year1_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year1_NCChronicRisk.csv
Chronic risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year1_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year1_NCAcuteRisk.csv
Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year1_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/28/2024 9:37:35 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 1
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 1
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: ON

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year2_CancerRisk.csv
Cancer risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year2_CancerRiskSumByRec.csv
Calculating chronic risk
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Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year2_NCAcuteRiskSumByRec.csv
HRA ran successfully

HARP2 - HRACalc (dated 22118) 5/28/2024 9:42:04 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 2
Total Exposure Duration: 1

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 1
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: ON
16 years to 70 years: ON

****

SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Mixed

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year3_CancerRisk.csv
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Calculating acute risk
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Acute risk total by receptor saved to: D:\LSA\2024\20241677 Extra Space Storage 4th Street\HARP_CONST\hra\Const_Year3_NCAcuteRiskSumByRec.csv
HRA ran successfully

ATTACHMENT D

GEOTECHNICAL SITE EVALUATION

Geotechnical Site Evaluation
and
Storm Water Infiltration Test Report
Proposed 3 Story, Self-Storage Building
Extra Space Storage #1536
1030 East 4th Street
Santa Ana, California 92701

prepared for

Extra Space Storage
2795 East Cottonwood Parkway, #400
Salt Lake City, Utah 84121

GORIAN & ASSOCIATES, INC.

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Appendix B: Laboratory Testing
Appendix C: Stormwater Infiltration Testing
Appendix D: ASCE 7 Hazards Report
Plate 1: Vicinity Map
Plate 2: Boring Location Map

Applied Earth Sciences
Geotechnical Engineers
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3595 Old Conejo Road
Thousand Oaks
California 91320-2122
805 375-9262

November 18, 2022

Extra Space Storage
2795 East Cottonwood Pkwy
#400
Salt Lake City, Utah 84121

Work Order: 3227-0-0-100

Subject: **Geotechnical Site Evaluation and Storm Water Infiltration Test Report, Proposed 3 Story, Self-Storage Building, Extra Space Storage # 1536, 1030 East 4th Street, Santa Ana, California 92701**

1. INTRODUCTION

The following report contains the results of our geotechnical site evaluation for design and construction of a three story, self-storage building as well as storm water infiltration testing at the existing Extra Space Storage Facility #1536 at 1030 East 4th Street in Santa Ana, California (see Plate 1). The planned 93,633 gross square foot building will be constructed at the northern end of the site as an above grade building with parking and drives adjacent the building. Foundations and on grade slabs are anticipated to be of conventional design. Subterranean construction is not anticipated at this time. Construction of the new building will require demolition or modification of existing onsite one-story buildings.

Geotechnical borings were used to obtain data on the alluvial soils underlying the site that are capped by a thin layer of fill soils. Additional borings were drill in which stormwater infiltration testing was performed at the locations shown on Plate 2. The field exploration was supplemented with laboratory testing to determine mechanical properties of the encountered soils. In addition, research was performed that indicated the site is not within Earthquake Fault, Liquefaction, or Landslide Zones (CGS, *Earthquake Zones of Required Investigation* website). Based on our site evaluation, the site is suitable for the proposed construction from a geotechnical standpoint provided recommendations presented herein are implemented in the project design and construction. Descriptions of the site and geologic units along with our conclusions and recommendations are presented within the text of this report.

2. PROPOSED DEVELOPMENT

The planned project will consist of a 93,633 gross square foot 3-story self-storage building in the northern portion of the Extra Space Storage Facility #1525 at Extra Space Storage Facility #1536 at 1030 East 4th Street in Santa Ana, California. Construction of the building will include demolition or modification of the existing self-storage buildings. In addition, the office will be moved to the new building. The site is relatively flat and therefore no significant grade changes are anticipated to the site except to provide a flat building pad and possibly for drainage adjacent the completed building. The overall configuration of the

site will remain roughly as currently laid out with the driveway off 4th Street remaining at the current location as shown on Plate 1.

The building is anticipated to be supported on continuous footings, with individual storage units possibly supported on a slab on grade within the interior of the structure. Continuous footings at the perimeter and at the interior are anticipated to be loaded to 7 to 10 kips per linear foot. Steel stud walls spaced on 10-foot centers could be loaded to approximately 5 kips per linear foot and could be supported directly on a thickened interior slab typical of this type of structure. The storage live loads are anticipated to be 125 pounds per square foot.

3. SCOPE OF SERVICES

This office, under the direction of a State registered Geotechnical Engineer, performed the geotechnical site evaluation outlined herein in general accordance with the *Scope of Services* presented in our proposal of August 26, 2022 (Proposal Number: 7241-10). Our scope of services included the following:

3.1. ARCHIVAL REVIEW

Pertinent site geotechnical and geologic information in our files was reviewed and incorporated into the site evaluation.

3.2. SUBSURFACE EXPLORATION

Three geotechnical borings (8-inch diameter) were drilled utilizing a subcontractor supplied and operated truck-mounted CME 75 hollow-stem auger drill rig equipped with an automatic hammer weighing 140 pounds with a 30-inch drop. The approximate locations of the boring are shown on Plate 2. The borings varied in depth from 46 feet (B-1 and B-3) to 20 feet (B-2) below the existing ground surface (bgs). Two infiltration tests borings (IB-1 and IB-2) were drilled to a total depth of 15 feet 2 inches below the existing ground surface. The field exploration activities described above were observed by a geologist from this office, who logged the underlying materials and from the borings obtained both bulk and relatively undisturbed drive soil samples for laboratory analyses.

At the conclusion of logging and sampling, the boring excavations (B-1 through B-3) were backfilled with the cuttings and tamped. However, the backfill may settle over time and the site representative should fill any depression that may occur, as necessary.

3.3. STORMWATER INFILTRATION TESTING

Two auger borings (IB-1 and IB-2) were excavated in the proposed development area as shown on Plate 2 to a depth of 15 feet 2 inches and was tested for stormwater infiltration. At the conclusion of logging and soil sampling, the borings were converted into infiltration rate test wells. Per the County of Orange guidelines for percolation testing, 2 inches of #3 sand was placed on the bottom of the boring, then a 2-inch diameter PVC pipe was placed in the borings; with the lower 10 to 15 feet of pipe being slotted (0.02). The annular space between the slotted pipe and the wall of the excavation was backfilled using #3 sand. The upper portion of the annular space was backfilled with soil cuttings from the borings.

The test zone was pre-soaked by filling to the top of the casing with water. The water was twice allowed to drain out for 25 minutes prior to conducting 10-minute readings for a minimum of 1 hour. The pipe was refilled with water to the top of the casing after each reading. Measurements of the water level drop were obtained at 10-minute intervals, as required in sandy soils. The rate of water infiltrated over a period of time was then calculated. At the conclusion of testing, the pipes were backfilled with soil and topped with rapid set concrete.

3.4. LABORATORY TESTING

A program of laboratory testing was performed to evaluate geotechnical properties of selected soil samples obtained during the subsurface exploration. The following tests were conducted for this site evaluation:

- Moisture and Density Testing of Undisturbed Soil Samples
- Maximum Density-Optimum Moisture Relationships
- Direct Shear Testing
- Consolidation Testing
- Expansion Index Testing
- Corrosion Testing

3.5. GEOTECHNICAL ENGINEERING ANALYSES AND REPORT PREPARATION

The results of our archival research, field exploration, storm water infiltration, laboratory testing, and engineering analyses were used to provide geotechnical recommendations for design and construction of the storage building, as well to provide an infiltration rate for design and construction of the stormwater BMP for the facility. The findings are provided in this report, which include:

a) A description of subsurface conditions as encountered in the exploratory excavations including Logs of Subsurface Data (Appendix A) and a Boring Location Map (Plate 2) showing the approximate excavation locations.

b) A description of the laboratory testing programs, including tests results (Appendix B).

c) Discussion and recommendations regarding:

   i) Geologic hazards including seismic setting of the site and faulting,

   ii) Seismic design criteria;

   iii) Soil collapse and expansion potential;

   iv) Site preparation and remedial grading;

   v) Conventional foundation design recommendations;

   vi) Estimated settlements;

   vii) Pavement and hardscape design recommendations;

   viii) Soil chemistry analysis, by subcontract;

   ix) Recommended infiltration rates.

4. SITE DESCRIPTION

The area of the proposed building is in the northern leg of the fully developed self-storage facility at 1030 East Fourth Street in Santa Ana in Orange County, California. The irregular shaped property and surrounding area are relatively flat. It is bounded by East Fourth Street to the north, commercial buildings to the east and residential and commercial buildings to the west. A landscape strip separates the southern end from East 1st Steet. The facility is developed with single-story storge units surrounded by concrete parking and drive areas. Drainage of the site is by sheet flow to area storm drain inlet structures.

5. SITE GEOLOGY

The site is underlain at depth by Quaternary-age alluvium mantled with artificial fill deposits. Based on the *Seismic Hazard Zone Report* for the Tustin 7.5-minute Quadrangle, the alluvial deposits are dense to very dense. Descriptions of these units are presented below and in the attached Logs of Subsurface Data (Appendix A).

5.1. ALLUVIUM

Quaternary-age alluvium underlies the site to the maximum depth explored, 46 feet (B-1 and B-3) below the existing ground surface. As encountered, the alluvium generally consists of yellowish brown to dark yellowish brown clayey silt to silty to sandy clay in a moist to wet and stiff to very stiff condition interstratified with yellowish brown to light yellowish brown clayey to silty fine to fine to coarse sand in a damp to very moist and medium dense to very dense condition. Some of the sandy units are friable.

5.2. ARTIFICIAL FILL

Artificial fill typically mantles the underlying alluvium and varies in thickness from approximately 1.5 feet (IB-1) to 4 feet (B-1). As encountered, the artificial fill generally consists of brown sandy clay in a moist and very stiff condition. These artificial fill soils are typically mottled and locally contain some brick to concrete debris which interfered with the sampling in the upper portion of B-1.

The existing concrete covered parking and drive areas was observed to vary in thickness from 5 inches (IB-1) to 6.5 inches (B-3).

5.3. GROUNDWATER

Groundwater was not encountered to the maximum depth explored, 46 feet (B-1 and B-3) below the existing ground surface. Based on the *Seismic Hazard Zone Report* for the Tustin 7.5-minute Quadrangle, historic groundwater is estimated at greater than 40 feet below the site. As in any groundwater situation, groundwater levels can fluctuate and groundwater (or perched zones) may be encountered at higher elevations than previously observed in the general area.

5.4. FAULTING AND SEISMICITY

The storage facility, like any other development in the greater Southern California area, is in a seismically active region prone to occasional damaging earthquakes. The destructive power of earthquakes can be grouped into fault-rupture, ground shaking (strong motion), and secondary effects of ground shaking such as tsunami, liquefaction, settlement, landslides, etc.

The hazard of fault-rupture is generally thought to be associated with a relatively narrow zone along well-defined pre-existing active faults. No doubt there is and will be exceptions to this, because it is not possible to predict the precise location of a new fault where none existed before (CDMG, 1975). Holocene-active faults are not known to cross the site nor is the project site currently within an Alquist-Priolo (A-P) Earthquake Fault Zone as defined by the State Geologist (CGS 2018). The closest active mapped faults are the El Modeno and 445 Faults, approximately 5.7 miles to the northeast, 440 and 439 Faults, approximately 8.6 miles to the southwest. The Whittier Fault is roughly 12 miles to the northeast. Potential for onsite surface ground rupture due to faulting onsite during the project lifetime is considered remote.

Although no active or potentially active faults are known to exist within or adjacent the site, the area will be subject to strong ground motion from occasional earthquakes in the region. Significant earthquakes have occurred within a 40-mile radius of the Site within the last 50 years. Additional earthquakes will likely occur in this area within the life of the project and it will experience strong ground shaking from these events.

Probabilistic seismic hazard analyses (PSHA) predict the Design Basis Earthquake having a 2% probability of exceedance in 50 years (2,475-year return period will have a peak ground acceleration estimated to be 0.64g based on a seismic event with a mean magnitude of 6.67 (Mw) at a mean distance of 15.27 km from the site. This is based on the U.S. Geological Survey (USGS) interactive web application, Unified Hazard Tool https://earthquake.usgs.gov/hazards/interactive/ for the D class site.

Secondary effects of strong ground motion include tsunami, seiche, liquefaction, settlement, earthquake triggered landslides, and flooding from dam failures. Tsunamis are impulsively generated water waves that can cause damage to shoreline areas. A seiche is an oscillation wave within an enclosed body of water. The site is not near the ocean or adjacent a body of water and, therefore, is not subject to tsunami and seiche hazards. Furthermore, the site is not prone to earthquake triggered landslides due to the relatively low relief in the area and preponderance of development covered land, nor is the site in the vicinity of any dam failure inundation zone. The site is not within a State designated seismic hazard zone for liquefaction potential (CGS, *Earthquake Zones of Required Investigation* website). See Figure 1, the Seismic Hazards Zone Map.

5.5. HYDROCONSOLIDATION

Hydroconsolidation occurs when the soil structure collapses due to soil wetting resulting in consolidation of the soil column. Due to the dense well consolidated nature of the underlying soils, the potential for hydroconsolidation is negligible.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1. GENERAL

The site was evaluated from a geotechnical standpoint for construction of a self-storage facility described herein. Differential settlement should be negligible based on the bearing capacities provided herein. The project may be developed as described earlier in this report provided recommendations presented herein are followed and incorporated into the project design and construction.

6.2. NATIVE SOILS

As previously noted, the site is underlain by Quaternary-age alluvial soils. These soils are considered suitable for the support of the proposed self-storage building. The thin layer of existing fill soils over the alluvium should be removed and recompacted as recommended later herein.

6.3. STORMWATER INFILTRATION

Based on our test results and field exploration observations, soils in the northern portion of the site as shown on Plate 2 were found to be suitable for construction of a stormwater infiltration system (greater than 0.3 inches/hour). A design infiltration rate of 2.7 inches/hour may be used for design purposes using a factor of safety of 2. The test results can be found in Appendix C.

The sizing of the infiltration system or field construction should be specified by the project design civil engineer. Input should be solicited from and data provided to the civil engineer, structural engineer and geotechnical engineer to optimize the design while minimizing the potential detrimental effects the addition of water could have on the site or adjacent sites. Plans and specifications should be provided to our office for review. Depending on actual design depth(s) and location(s) additional infiltration rate testing may be warranted.

6.4. SITE PREPARATION AND GRADING

6.4.1. General

The following site preparation and grading recommendations are for preparation of the building area. Soil removal and recompaction will be necessary for building support as described in the following sections. Grading including site preparation, grading, and fill placement should be per applicable building codes, or these recommendations, whichever is more conservative.

6.4.2. Site Clearing
Prior to starting earthwork, trash, debris, and remnants of demolition within all areas of construction should be stripped and removed from the site. Utilities within the area of proposed grading should be identified and removed or protected prior to grading.

6.4.3. Demolition
Presently, the area is covered by paving and facilities related to the current use of the property that are planned for demolition. Utilities to remain should be protected in place.

6.4.4. Soil Removals
Soil removals, as a minimum, should extend below soils disturbed during the site clearing. Also, the existing fill (estimated at 1.5 to 4 feet thick) should be removed to the underlying alluvial soils. For areas supporting continuous and isolated footings, as well as those supporting structural fill, the soil removals should extend to firm previously placed compacted fill, anticipated for be directly below the disturbed soil zone. Due to the presence of the existing fill, the entire building pad should be undercut to the depth of the encountered fill, which based on the borings is approximately 4 feet thick.

Soil removal and recompaction should be performed as necessary within all areas of at-grade construction requiring compacted engineered fill. The removals should extend a minimum of five feet outside the footings or area of fill placement. Removal may be stopped at property lines and adjacent buildings. This office should evaluate removals adjacent existing structures prior to excavation. When the removals are completed and prior to in-place processing, this office should observe the bottom of the removal areas.

6.4.5. Soil Compaction
Fill soil or in-place compaction should be completed to a minimum 90 percent relative compaction. Relative compaction is the ratio of the in-place dry soil density to the maximum dry soil density as determined in general accordance with ASTM laboratory standard D-1557.

6.4.6. In-Place Soil Processing
Once the soil removals are complete and prior to placing fill, the bottom of the removal area should be processed. Processing consists of scarifying the exposed surface to a depth of roughly 6 to 8 inches, conditioning the scarified soil to above the optimum moisture content, and compacting the scarified soil. Processed soil should be compacted to 90 percent relative compaction.

6.4.7. Fill Placement
Soils generated from the removal areas should be suitable for reuse as fill. Fill soils should be free of significant vegetation, rocks greater than 6 inches in maximum linear dimension, and other deleterious materials. In addition, fill soils should be mixed and blended. Fill soils should be placed in lifts not exceeding 8 inches in maximum loose thickness, moisture conditioned to slightly over optimum moisture content, and compacted to at least 90 percent relative compaction.

6.4.8. Temporary Slopes
Temporary slopes, if required, should be at a gradient of 1(horizontal):1(vertical) or flatter to a maximum depth of 4 feet. Due to the sandy nature of the soils, vertical trench cuts should not be made within the site. Sloped excavations can be evaluated when the proposed location and depth are known.

During construction, the contractor is responsible for excavation and maintenance of safe and stable slope angles considering the subsurface conditions and the methods of operations. Temporary excavations should be made per the applicable requirements of the current Cal/OSHA excavation regulations. Surcharge loads should be setback from the top of temporary excavations a minimum horizontal distance of 10 feet.

6.5. SOIL EXPANSIVENESS

An expansion test conducted on the upper soils within the site indicate the soils are non-expansive (0-20 soil expansion range). Expansive soils contain clay particles that change in volume (shrink or swell) due to a change in the soil moisture content. The amount of volume change depends upon the soil swell potential (amount of expansive clay in the soil), availability of water to the soil, and the soil confining pressure. Swelling occurs when soils containing clay become wet due to excessive water from poor surface drainage, over-irrigation of lawns and planters, and sprinkler or plumbing leaks. Swelling clay soils can cause distress to structures, walks, drains, and patio slabs.

6.6. GEOTECHNICAL SEISMIC DESIGN

As previously discussed, no active faults identified by the State are in close vicinity to the site nor is the site within an Alquist-Priolo Earthquake Fault Zone. Nevertheless, the site is within a seismically active region prone to occasional damaging earthquakes.

Structures within the site may be designed using procedures for seismic design presented in ASCE/SEI 7-16. Mapped acceleration parameters are initially determined for sites having a shear wave velocity of 2,500 feet per second (Section C11.4.4). The S_s and S_1 values are adjusted to obtain the maximum considered earthquake (MCE) spectral acceleration values for the site based on its site class of D. The seismic design parameters for the site's coordinates (latitude 33.7474 N and longitude 117.8561 W) were obtained from the web based ASCE 7 Hazard Tool https://asce7hazardtool.online/ The parameters are presented on the following page (the full report is presented in Appendix D). Also, provided in Appendix C is the ASCE 7 Hazards Report for ASCE/SEI 7-22.

SEISMIC PARAMETER	VALUE PER CBC
Short Period Mapped Acceleration (S_s)	1.287g
Long Period Mapped Acceleration (S_1)	0.459g
Site Class Definition	D
Site Coefficient (F_a)	1.0
Site Coefficient (F_v)	1.7*
$S_{MS} = F_aS_s$	1.287g
$S_{M1} = F_vS_1$	0.78g*
$S_{DS} = 2/3S_{MS}$	0.858g
$S_{D1} = 2/3S_{M1}$	0.52g*
PGA_M	0.595

**Based on proposed development meeting requirements of the exemption for Site Class D sites in Section 11.4.8 of ASCE 7-16. Further analysis may be required once the Response Modification Factor and Period of the proposed development are known.*

The purpose of the building code earthquake provisions is primarily to safeguard against major structural failures and loss of life, not to limit damage nor maintain function. Therefore, values provided in the building code should be considered minimum design values and should be used with the understanding site acceleration could be higher than addressed by code-based parameters. Cracking of walls and possible structural damage should be anticipated in a significant seismic event.

6.7. FOUNDATION DESIGN

6.7.1. Design Data

The structure may be supported on continuous or isolated footings underlain by engineered compacted soils and in-place alluvial soils as addressed above and may be designed for an allowable bearing pres-

sure of 3,000 pounds per square foot (psf). The allowable net bearing pressure may be increased by one-third when considering wind or seismic loads. The weight of concrete below grade may be excluded from the footing load.

Continuous and isolated footings should have minimum widths of 18 inches and 24 inches, respectively. The footings should be embedded a minimum of 24 inches for interior and exterior footings. The embedment should be measured from the lowest adjacent grade (lowest grade at the time of excavation or after). Interior footings may be embedded a minimum of 24 inches below the interior slab. Steel reinforcement should be per the structural engineers' recommendations. However, minimum continuous footing reinforcement should consist of two number five bars in the top and bottom (total of 4 bars). In addition, interior slabs are suggested to be tied to the footings with number 4 bars at 24-inch centers bent 3-feet into the slab and extended to within 3 inches of the bottom of the footing. Perimeter isolated footings should be tied together with a grade beam extending 24 inches deep below the lowest adjacent grade.

6.7.2. Mat Slab Design Data

An allowable soil bearing pressure of 1,500 pounds per square foot may be used in the design of a reinforced concrete slab or mat slab for point or wall loads. A modulus of subgrade reaction "K" of 200 pounds per cubic inch (pci) may be used for overall design of a slab. The provided bearing capacity and modulus of subgrade reaction are for a slab underlain by a 6-inch-thick layer of ½ inch or larger clean aggregate (or per applicable building codes, whichever is the more restrictive) placed directly on the surface of a properly prepared building pad. The project structural engineer should determine the steel reinforcement and concrete compressive strength. An interior slab should be placed on a moisture retarder, however, an exception would be if the slab is used to resist lateral movement and a moisture retarder layer cannot be used below the slab. In this case, it may be necessary to seal the surface of the slab.

6.7.3. Lateral Resistance

Lateral forces on foundations may be resisted by passive earth pressure and base friction. Lateral passive earth pressure may be considered equal to a fluid weighing 300 pcf. The lateral passive pressure may be increased to a maximum of 2500 psf. Base friction may be computed at 0.4 times the normal load. Base friction and passive earth pressure may be combined without reduction.

6.7.4. Estimated Settlements

Static settlement of footings should be evaluated once building footing locations and structural loads are known. However, footing settlement for static loading is anticipated on the order of 1/2 inch or less, with a maximum differential settlement of 1/2± inch over a span of approximately 30 feet or between adjacent individual footings. This is provided building construction is started directly after footing excavation, footings are cast soon after the footing excavation, and construction is completed in a timely manner. Settlements due to static loading are expected to occur rapidly as the loads are applied.

All structures settle during construction and some minor settlement of structures can occur after construction during the life of the project. Minor wall cracking could occur within the structure associated with expansion and contraction of the structural members. In addition, wall or slab cracking may be associated with settlement or expansive soil movement. Additional settlement/soil movement could occur if the soils dry or become saturated due to excessive water infiltration generally caused by excessive irrigation, poor drainage, etc.

6.7.5. Footing Excavations

Footings should be poured soon after footing excavation is complete. This office should observe the footing excavations prior to placing reinforcing steel. Footings should be cut square and level and cleaned of loose soils. Soil excavated from the footing and utility trenches should not be spread over any areas of construction unless properly compacted. Soils silted into the footing excavations should be

removed to the required depth prior to casting the concrete. The footings should be cast as soon as possible to avoid deep desiccation of the footing subsoils.

6.7.6. Premoistening
Footing subsoils should be premoistened to 3% over the optimum moisture content for a depth of 18 inches below the bottom of the footing. Saturated soils or soils silted into the footing excavations should be removed prior to concrete placement.

6.8. SLABS-ON-GRADE

6.8.1. Site Preparation
The subgrade for slabs-on-grade, if disturbed during foundation and utility construction, should be conditioned prior to placement of an aggregate materials. Loose soils should be removed to firm in-place material, the exposed subgrade processed, and the material replaced as engineered compacted fill or aggregate material.

6.8.2. Slab-on-Grade Design Data
Interior concrete slabs on-grade not used for structural support should be 5 inches thick and underlain by a 6-inch-thick layer of ½ inch or larger clean aggregate or per applicable building codes, whichever is the more restrictive. The slab should be reinforced with a minimum of number 4 bars at 18-inch centers in each direction. The reinforcement should be placed and kept at slab mid-depth.

Exterior concrete slabs-on-grade (non-auto traffic) and walkways should be a minimum of 4 inches thick and underlain by a minimum of 4 inches of sand. In areas of heavy loading for truck traffic (including trash pickup areas and loading docks) the slab thickness should be increased to a minimum of 7 inches thick over 6 inches of aggregate base. Exterior slabs should be reinforced with a minimum of No. 3 bars on 24-inch centers in each direction. The reinforcement should be placed at mid-depth of the slab. Sidewalks may be constructed of non-reinforced concrete provided the sidewalks are cut into square panels (i.e., 4-foot wide walks should be cut into 4 foot by 4 foot squares).

6.8.3. Premoistening
Soils under lightly loaded slabs on-grade should be premoistened to 3% over the optimum moisture content for a depth of 18 inches.

6.8.4. Concrete Placement and Cracking
Minor cracking of concrete slabs is common and is generally the result of concrete shrinkage continuing after construction. Concrete shrinks as it cures resulting in shrinkage tension within the concrete mass. Since concrete is weak in tension, development of tension results in cracks within the concrete. Therefore, the concrete should be placed using procedures to minimize the cracking within the slab. Shrinkage cracks can become excessive if water is added to the concrete above the allowable limit and proper finishing and curing practices are not followed. Concrete mixing, placement, finishing, and curing should be performed per the American Concrete Institute Guide for Concrete Floor and Slab Construction (ACI 302.1R). Concrete slump during concrete placement should not exceed the design slump specified by the structural engineer. Concrete slabs on grade should be provided with tooled crack control joints at 10-15 foot centers or as specified by the structural engineer.

6.8.5. Moisture Vapor Barrier
Moisture migrates from high to low moisture zones. Therefore, concrete slabs on grade within the building interiors should be considered sensitive to moisture. Therefore, an appropriate moisture vapor retarder layer should be installed and maintained below concrete slabs-on-grade.

The exception to a moisture retarder below the slab would be if the slab is used to resist lateral movement and a moisture retarder layer could not be used below the slab. In this case, it may be necessary to seal the surface of the slab.

The water vapor retarder should be one specifically designed as a vapor retarder and consist of a minimum 15 mil extruded polyolefin plastic and complying with Class A requirements under ASTM E1745 (*Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs*). The vapor retarder should be installed in accordance with ASTM E1643. The water vapor retarder should be installed in direct contact with the concrete slab along with a concrete mix design to control bleeding, shrinkage, and curling (ACI 302.2R). The vapor retarder shall be installed over a minimum 6-inch-thick layer of ½ inch or larger clean aggregate or per applicable building codes, whichever is the more restrictive. The vapor retarder should be placed per ASTM E1643-98(2005) *Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*. In addition, various trades and the concrete contractor should be required to protect the moisture retarder during construction.

All joints should be lapped and sealed. Perforations through the moisture vapor retarder such as at pipes, conduits, columns, grade beams, and wall footing penetrations should be sealed per the manufacture's specifications or ASTM E1643. Proper construction practices should be followed during construction of slabs on-grade. Repair and seal tears or punctures in the moisture barrier resulting from the construction process prior to concrete placement.

Minimizing shrinkage cracks in the slab on-grade can further minimize moisture vapor emissions. A properly cured slab utilizing low-slump concrete will reduce the risk of shrinkage cracks in the slab as described herein.

The concrete contractor should make the necessary changes in the concrete placement and curing for concrete placed directly over the retarder. Placing the concrete directly on top of the moisture vapor retarder layer allows the layer to be observed for damage directly prior to concrete placement.

The slabs should be tested for moisture content prior to the selection of the flooring and adhesives. Moisture in the slabs should not exceed the flooring manufacture's specifications. The concrete surface should be sealed per the manufacture's specifications if the moisture readings are excessive. It may be necessary to select floor coverings applicable to high moisture conditions.

6.9. SOIL CORROSIVITY

The results of the analytical laboratory testing to evaluate the potential for corrosion of materials in contact with the onsite soils are presented in Appendix B. The testing was performed on a soil sample considered to represent the onsite soils. From ACI Table 19.3.1.1 the evaluated soil is categorized as Class S0. The required concrete design requirements for this exposure class can be obtained from ACI Table 19.3.2.1. The potential for corrosion of metals in contact with the site soils is severely corrosive as determined from Table 1 in Appendix B. For specific recommendations, a corrosion engineer should be consulted.

6.10. SITE DRAINAGE AND LANDSCAPING

Positive drainage should be continuously provided and maintained away from the structure during and after construction in accordance with applicable building codes and/or the approved grading plan. Regarding landscaping, planters adjacent a structure should be constructed so that irrigation water will not saturate the soils underlying the building footings and slabs. Trees should not be planted adjacent a structure where roots could grow under the foundations or slabs.

6.11. GUTTERS AND DOWNSPOUTS

Gutters and downspouts should be installed on the buildings to collect roof water and direct the water away from the structure.

6.12. PAVEMENT DESIGN

The anticipated structural section would be 3 inches of asphaltic concrete over 6 inches of aggregate base for parking areas. The structural section should be increased to be 3 inches of asphaltic concrete over 10 inches of aggregate base for drive areas. The final structural sections should be confirmed at the conclusion of grading. The upper 6 inches of subgrade and the base materials should be compacted to at least 90% and 95% of the maximum dry density, respectively.

Planter areas should be graded so excess water drains onto and not beneath the adjacent AC pavement and curbs. Also, adjacent the planters, consideration should be given to deepening the curbs so that water is not allowed to saturate the pavement subgrade.

6.13. PLAN REVIEW(S)

As the development process continues and final detailed grading and site/foundation plans and specifications are developed, they should be reviewed by Gorian and Associates, Inc. Additional geotechnical recommendations may be warranted at that time.

7. CLOSURE

This report was prepared under the direction of State registered geotechnical engineer for the addressee and design consultants solely for design and construction of the project as described herein. No warranty, express or implied, is made as to conclusions and professional advice included in this report. Gorian and Associates, Inc. disclaim any and all responsibility and liability for problems that may occur if the recommendations presented in this report are not followed.

This report may not contain sufficient information for other uses or the purposes of other parties. Recommendations should not be extrapolated to other areas or used for other facilities without consulting Gorian and Associates, Inc. Services of this office should not be construed to relieve the owner or contractors of their responsibilities or liabilities.

The scope of the services provided by Gorian and Associates, Inc. and its staff, excludes responsibility and/or liability for work conducted by others. Such work includes, but is not limited to, means and methods of work performance, quality control of the work, superintendence, sequencing of construction and safety in, on, or about the jobsite.

The recommendations are based on interpretations of the subsurface conditions concluded from information gained from subsurface explorations and a surficial site reconnaissance. The interpretations may differ from actual subsurface conditions, which can vary horizontally and vertically across the site. Due to possible subsurface variations, this office should observe all aspects of field construction addressed in this report. Individuals using this report for bidding or construction purposes should perform such independent investigations as they deem necessary.

oOo

Please contact our office if you have questions regarding the information and recommendations contained in this report, or require additional consultation.

Respectfully submitted,

Gorian and Associates, Inc.

By: Jerome J. Blunck, GE 151
Principal Geotechnical Engineer

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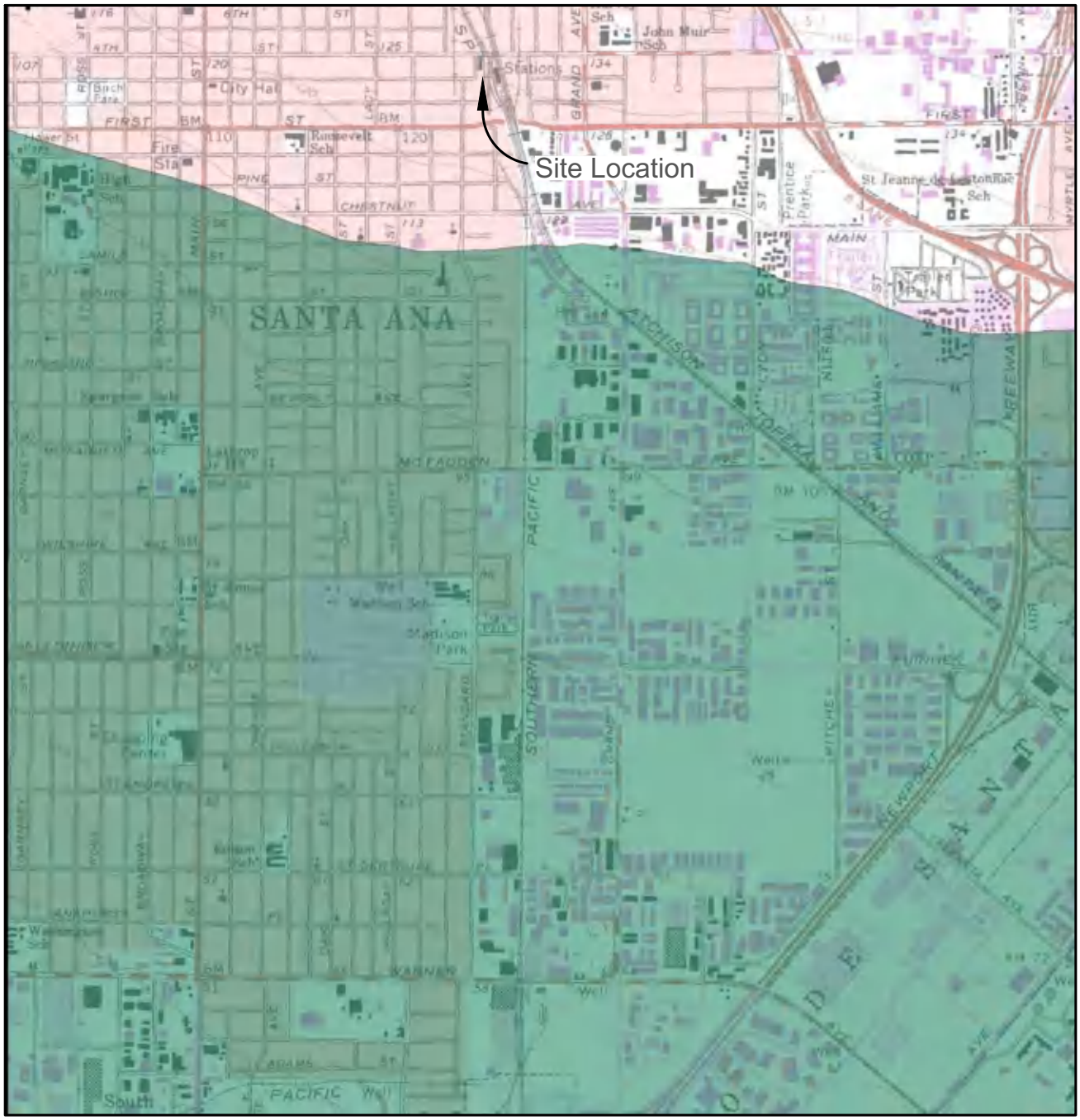


Explanation

Seismic Hazard Zone - Liquefaction

Source

California Geological Survey, Earthquake Zones of Required Investigation Tustin Quadrangle, Official Map Released January 17, 2001

SEISMIC HAZARD ZONE MAP

Extra Space Storage # 1536
1030 East 4th Street
Santa Ana, California

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 3227-0-0-100		Date: Nov. 2022
Scale: 1" = 2000'	Drawn by:	Figure 1
	Approved by:	

APPENDIX A

LOGS OF SUBSURFACE DATA

GORIAN & ASSOCIATES, INC

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: B-1

Page Number: 1

Date(s) Excavated 10/18/22	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75	Hammer Data 140#, 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								CONCRETE (6")	
						CL		ARTIFICIAL FILL: Brown sandy CLAY (moist, very stiff). Mottled. Some concrete debris.	
			48	12.6	105			At 3'; concrete slab in tip.	
5			18			CL		ALLUVIUM: Dark yellowish brown sandy CLAY (moist, very stiff). Some fine gravel.	
			17					At 6'; concrete in tip.	
			21					At 7'; concrete in tip.	
						SC		Yellowish brown clayey fine SAND (moist).	
10			12	18.1	102	ML		Yellowish brown clayey SILT (very moist, stiff).	
15			12					At 15'; concrete in tip.	
			21	13.8	115	SM		Yellowish brown silty fine SAND (moist, medium dense).	
						CL		Yellowish brown silty CLAY (very moist, very stiff).	
20			15	19.0	106				
25			16	16.6	115	ML		Yellowish brown clayey SILT (very moist, very stiff).	
30			20	17.1	108				
						SM		Yellowish brown silty fine SAND (moist, medium dense).	
						ML		Yellowish brown clayey SILT (very moist, very stiff).	
35			22	17.4	109				

GORIAN & ASSOCIATES, INC.

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: B-1

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
40			11	27.4	98			At 40'; becoming wet, stiff.	
						SM		Light yellowish brown silty fine to medium SAND (damp, very dense). Friable.	
45			51	2.5	115			Total Depth 46' No Caving Observed No Groundwater Encountered Backfill with cuttings and tamped. Rapid set concrete on top.	
50									
55									
60									
65									
70									
75									
80									

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: B-2

Page Number: 1

Date(s) Excavated 10/18/22	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75	Hammer Data 140#, 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								CONCRETE (6")	
						CL		ARTIFICIAL FILL: Brown sandy CLAY (moist, very stiff). Some brick debris.	
			22	15.8	111	ML		ALLUVIUM: Dark yellowish brown sandy CLAY (moist, very stiff).	
5			9	14.4	106			At 5'; becoming stiff.	
			16	15.4	112				
						SM		Yellowish brown silty fine SAND (moist, medium dense).	
10			13	14.5	104	ML		Yellowish brown clayey SILT (moist, stiff).	
15			15	20.9	105			At 15'; becoming very moist.	
						SC		Yellowish brown clayey fine SAND (very moist, medium dense).	
20			12	22.6	99				
								Total Depth 21' No Caving Observed No Groundwater Encountered Backfill with cuttings and tamped. Rapid set concrete on top.	
25									
30									
35									

GORIAN & ASSOCIATES, INC.

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: B-3

Date(s) Excavated 10/18/22	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75	Hammer Data 140#, 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								CONCRETE (6½")	
						CL		ARTIFICIAL FILL: Brown sandy CLAY (moist, very stiff). Mottled. Some concrete debris.	
			18	8.4	118	SC		ALLUVIUM: Yellowish brown silty fine SAND (moist, medium dense).	
5			10	10.3	110				
			14	15.9	104	ML		Yellowish brown clayey SILT (moist, stiff).	
						SM		Yellowish brown silty fine to coarse SAND (damp, medium dense). Friable.	
10			7	21.3	95	ML		Yellowish brown clayey SILT (very moist, medium stiff).	
15			11	14.9	106	SC		Yellowish brown clayey fine SAND (moist, medium dense). At 15'; becoming very moist, stiff.	
						ML		Yellowish brown clayey SILT (very moist, stiff).	
20			12	21.2	103				
25			15	16.7	107			At 25'; becoming very stiff.	
30			21	17.4	111				
35			19	18.1	106				

GORIAN & ASSOCIATES, INC

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: B-3

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
40			16	22.0	101				
45			19	15.8	106				
								Total Depth 46' No Caving Observed No Groundwater Encountered Backfill with cuttings and tamped. Rapid set concrete on top.	

50

55

60

65

70

75

80

GORIAN & ASSOCIATES, INC.

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: IB-1

Date(s) Excavated 10/18/22	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75	Hammer Data 140#, 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0						CL		CONCRETE (5")	
								ARTIFICIAL FILL:	
								Brown sandy CLAY (moist, very stiff). Mottled. Some concrete debris.	
			17	18.5	109	CL/ ML		ALLUVIUM: Yellowish brown silty CLAY to clayey Silt (very moist, very stiff).	
5			10	14.5	105	ML		Yellowish brown clayey SILT (moist, stiff).	
			12	9.2	110	SM		Yellowish brown to light brown silty fine to medium SAND (damp, medium dense). Friable.	
10			2/3/3			ML		Yellowish brown clayey SILT (moist, medium stiff).	
			2/3/4			SC		Yellowish brown silty fine SAND (moist, medium dense).	
15								Total Depth 15'2" No Caving Observed No Groundwater Encountered BORING CONVERTED INTO INFILTRATION TEST WELL -15'2" to -15; #3 Sand -15' to -10'; 2" PVC Slotted (0.02) -10' to G.S.; Solid PVC ANNULAR SPACE -15' to -9'7"; #3 Sand -9'7" to G.S.; cuttings Prescaked	
20									
25									
30									
35									

GORIAN & ASSOCIATES, INC.

Project: Extra Space Storage, 1030 East 4th St., Santa Ana **SUBSURFACE LOG**

Work Order: 3227-0-0-100

Excavation Number: IB-2

Page Number: 1

Date(s) Excavated 10/18/22	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation
Excavation Dimension 8" Dia.	Equipment Contractor 2R Drilling	Equipment Type CME 75	Hammer Data 140#, 30" Drop

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								CONCRETE (5½")	
						CL		ARTIFICIAL FILL: Brown sandy CLAY (moist, very stiff). Mottled. Some concrete debris.	
						ML		ALLUVIUM: Yellowish brown clayey SILT (moist, medium stiff).	
5									
10			2/3/3						
						CL		Yellowish brown sandy CLAY (very moist, medium stiff).	
15			2/3/3					Total Depth 15'2" No Caving Observed No Groundwater Encountered BORING CONVERTED INTO INFILTRATION TEST WELL -15'2" to -15'; #3 Sand -15' to -10'; 2" PVC Slotted (0.02) -10' to G.S.; Solid PVC ANNULAR SPACE -15' to -9'6"; #3 Sand -9'6" to G.S.; cuttings Presoaked	
20									
25									
30									
35									

APPENDIX B
LABORATORY TESTING

General

Laboratory test results on selected samples are presented below. Test were performed to evaluate the physical and engineering properties of the encountered earth materials, including in-situ moisture content and dry density, optimum moisture-maximum dry density relationships, expansion potential, consolidation characteristics, and shear strength parameters. Soil corrosivity testing was performed under subcontract by a corrosion engineer.

Density and Moisture Tests

In situ dry density and moisture content were determined for each undisturbed soil sample. The results are presented on the Logs of Subsurface Data (Appendix A).

Maximum Density-Optimum Moisture

Maximum density/optimum moisture test (compaction characteristics) was performed on two selected bulk samples of the soils encountered. The test was performed in general accordance with ASTM D 1557. The results are as follows:

Boring Number	Depth (feet)	Visual Classification	Maximum Dry Density – pcf	Optimum Moisture Content - %
B-2	4.0	Dark yellowish brown sandy clay	124.4	10.7
B-3	4.0	Yellowish brown silty fine sand	129.2	9.3

Soil Expansiveness

An expansion index test was performed on a soil sample obtained from the borings to evaluate expansion potential of the subgrade soils in general accordance with the Expansion Index Test method (ASTM test method D4829-08a). The results are as follows:

Boring Number	Depth (feet)	Expansion Index	Expansion Range
B-2	4.0	31	0-20

Direct Shear Test

Direct shear tests were performed on two relatively undisturbed samples and two remolded samples to evaluate soil shear strength parameters. The sample sets were sheared under normal pressures ranging from 1000 to 4000 pounds per square foot. The results are graphically presented herein.

Consolidation Test

Consolidation (confined compression) testing was performed on four selected samples of the soils below anticipated foundation depths to evaluate compressibility characteristics. The sample was loaded in increments to a maximum of 8,000 pounds per square foot and then rebounded. The samples was inundated at the indicated overburden pressure to evaluate the effect of moisture infiltration on compression behavior. The load-consolidation curves are presented herein as a graphic summaries.

Soil Corrosivity

The results of the analytical laboratory testing to evaluate the potential for corrosion of materials in contact with the onsite soils are presented in this appendix. The testing was performed on a soil sample considered to represent the onsite soils. From ACI Table 19.3.1.1 the evaluated soil is categorized as Class S0. The required concrete design requirements for this exposure class can be obtained from ACI Table 19.3.2.1. The potential for corrosion of metals in contact with the site soils is severely corrosive as

determined from Table 1 below. For specific recommendations, a corrosion engineer should be consulted.

ACI Table 19.3.1.1 – Exposure Categories and Classes

Category	Class	Water-soluble sulfate (SO_4^{2-}) in soil, percent by mass	Dissolved sulfate (SO_4^{2-}) in water, ppm[1]
Sulfate (S)	S0	$SO_4^{2-} < 0.10$	$SO_4^{2-} < 150$
	S1	$0.10 \le SO_4^{2-} < 0.20$	$150 \le SO_4^{2-} < 1500$ or seawater
	S2	$0.20 \le SO_4^{2-} < 2.00$	$1500 \le SO_4^{2-} < 10,000$
	S3	$SO_4^{2-} > 2.00$	$SO_4^{2-} > 10,000$

1 ppm (parts per million) = milligrams per kilogram mg/kg of dry soil weight

ACI Table 19.3.2.1 – Requirements for Concrete by Exposure Class

Exposure Class	Maximum *w/cm*	Minimum f_c', psi	Cementitious materials - Types			Calcium chloride admixture
			ASTM C150	ASTM C595	ASTM C1157	
S0	N/A	2500	No type restriction	No type restriction	No type restriction	No restriction
S1	0.50	4000	II	Types IP, IS, or IT with (MS) designation	MS	No restriction
S2	0.45	4500	V	Types IP, IS, or IT with (MS) designation	HS	Not permitted
S3	0.45	4500	V plus pozzolan or slag cement	Types IP, IS, or IT with (MS) designation plus pozzolan or slag cement	HS plus pozzolan or slab cement	Not permitted

ACI Tables 19.3.1.1 and 19.3.2.1 - ACI 318-14 Building Code Requirements for Structural Concrete

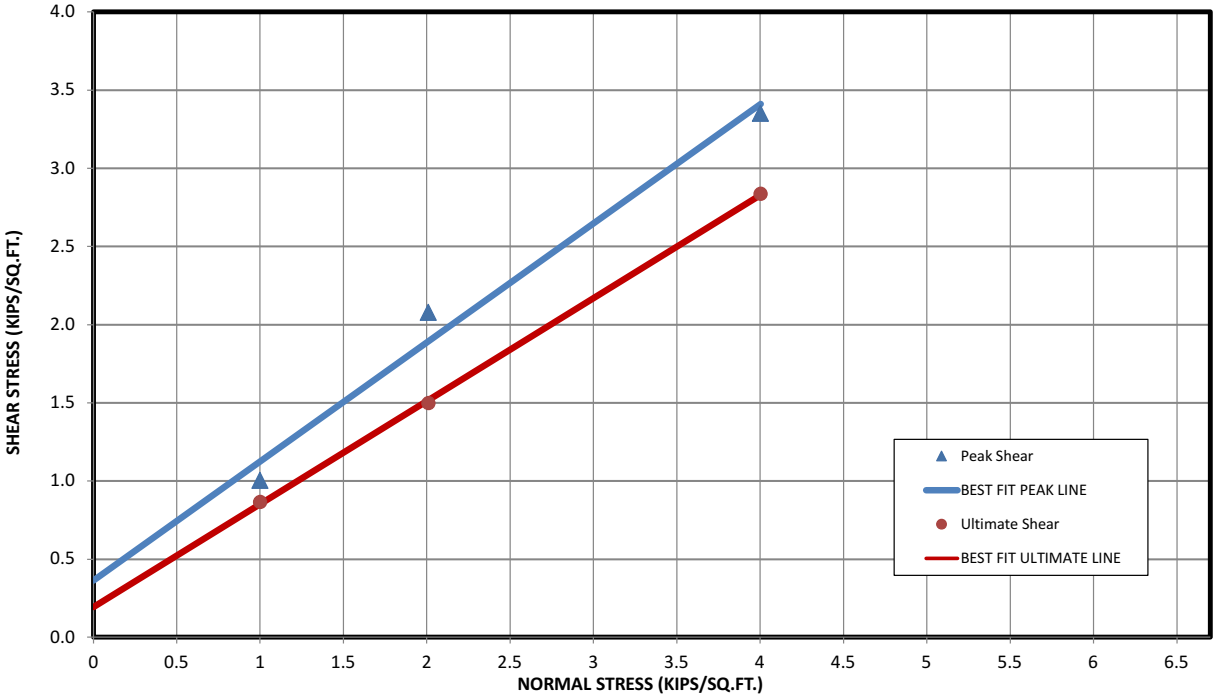
Table 1. Relationship Between Soil Resistivity and Soil Corrosivity

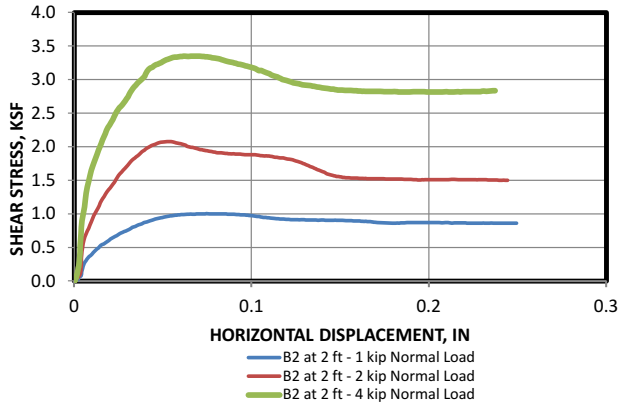
Soil Resistivity, ohm-cm	Classification of Soil Corrosiveness
0 to 900	Very severe corrosion
900 to 2,300	Severely corrosive
2,300 to 5,000	Moderately corrosive
5,000 to 10,000	Mildly corrosive
10,000 to >10,000	Very mildly corrosive

F. O. Waters, Soil Resistivity Measurements for Corrosion Control, Corrosion. 1952, Vol, No. 12, 1952, p. 407.

DIRECT SHEAR TEST RESULTS

Undisturbed Sample





PROJECT:	Extra Space Storage - Santa Ana
W.O:	3227-0-0-100
EXCAVATION:	B2
DEPTH:	2 ft

TEST DATA:	#1	#2	#3
NORM. PRES. (KSF)	1.0	2.0	4.0
ULTIMATE			
SHEAR STRESS (KSF):	0.86	1.50	2.84
H.DISPL. (IN)	0.25	0.25	0.24
DISP. RATE (IN/MIN)	0.02	0.02	0.02
PEAK			
SHEAR STRESS (KSF):	1.00	2.08	3.35
H.DISPL. (IN)	0.07	0.05	0.06

	PEAK	ULT.	RES.
COHESION (KSF):	0.375	0.200	
PHI (DEG):	37	33	

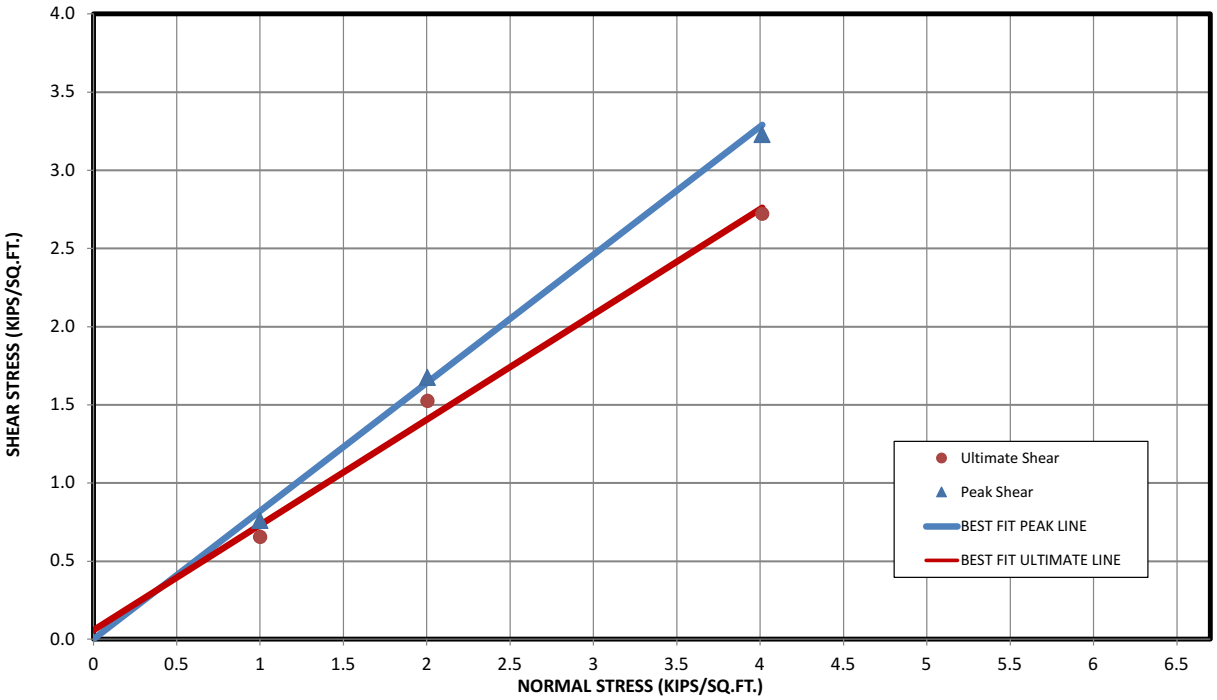
PRESHEAR DRY DENSITY (PCF):	112.5	112.6	114.6
PRESHEAR MOISTURE (% OF DD):		19.0	
EST.VOID RATIO, e (preshear):	0.44	0.44	0.42

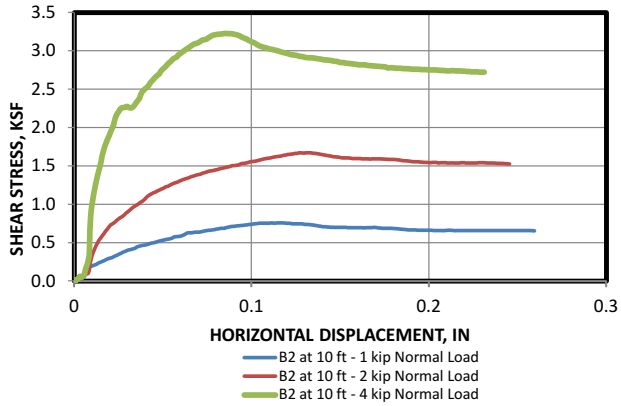
TEST FILES:

J:\TEST675.DAT
J:\TEST676.DAT
J:\TEST677.DAT

DIRECT SHEAR TEST RESULTS

Undisturbed Sample





PROJECT:	Extra Space Storage - Santa Ana
W.O:	3227-0-0-100
EXCAVATION:	B2
DEPTH:	10 ft

TEST DATA:	#1	#2	#3
NORM. PRES. (KSF)	1.0	2.0	4.0
ULTIMATE			
SHEAR STRESS (KSF):	0.65	1.52	2.72
H.DISPL. (IN)	0.26	0.25	0.24
DISP. RATE (IN/MIN)	0.02	0.02	0.02
PEAK			
SHEAR STRESS (KSF):	0.76	1.67	3.23
H.DISPL. (IN)	0.11	0.13	0.09

	PEAK	ULT.	RES.
COHESION (KSF):	0.000	0.050	
PHI (DEG):	39	34	

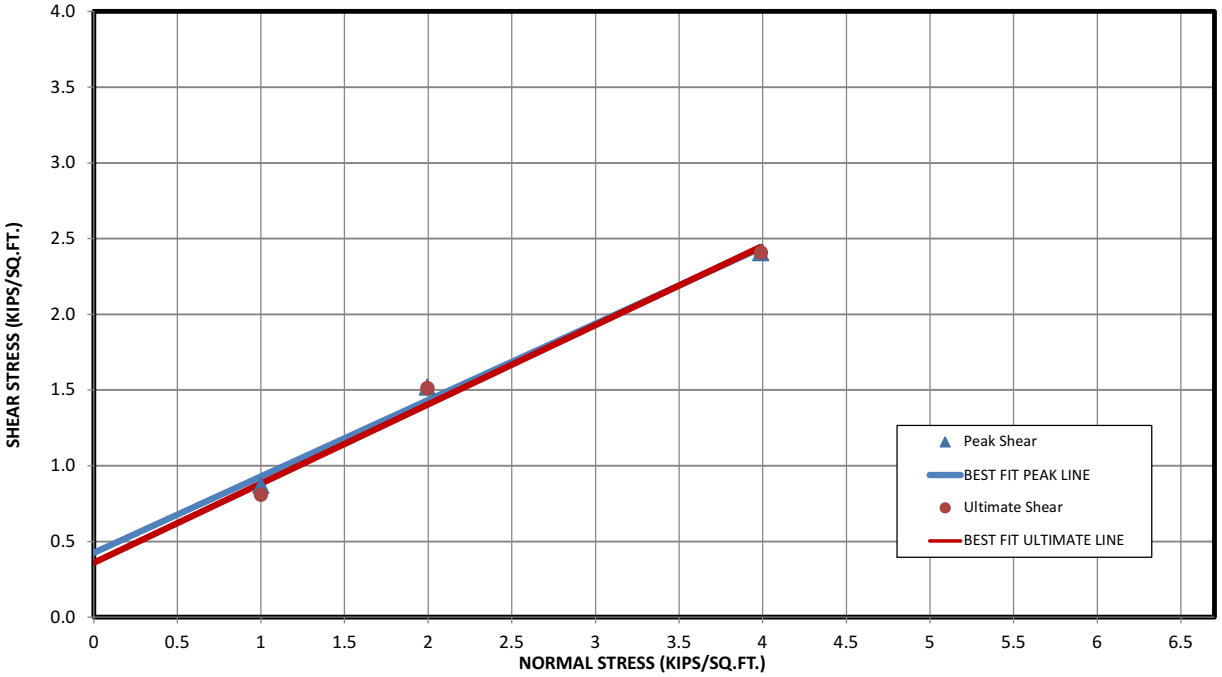
PRESHEAR DRY DENSITY (PCF):	107.4	108.2	111.2
PRESHEAR MOISTURE (% OF DD):		23.0	
EST.VOID RATIO, e (preshear):	0.51	0.50	0.46

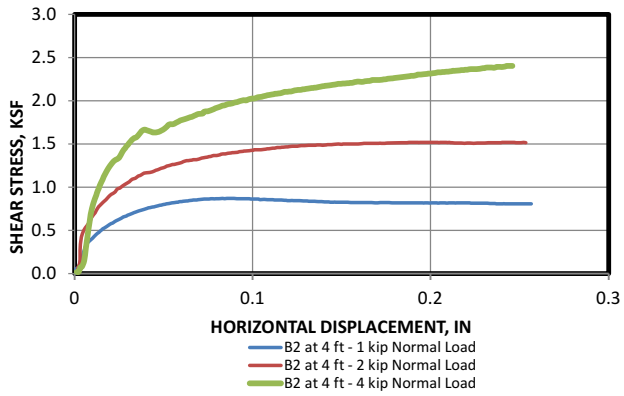
TEST FILES:

J:\TEST672.DAT
J:\TEST673.DAT
J:\TEST674.DAT

DIRECT SHEAR TEST RESULTS

Remolded 90% Relative Compaction





PROJECT:	Extra Space Storage - Santa Ana
W.O:	3230-0-0-100
EXCAVATION:	B2
DEPTH:	4 ft

TEST DATA:	#1	#2	#3
NORM. PRES. (KSF)	1.0	2.0	4.0
ULTIMATE			
SHEAR STRESS (KSF):	0.81	1.51	2.41
H.DISPL. (IN)	0.26	0.26	0.25
DISP. RATE (IN/MIN)	0.02	0.02	0.02
PEAK			
SHEAR STRESS (KSF):	0.87	1.52	2.41
H.DISPL. (IN)	0.08	0.20	0.25

	PEAK	ULT.	RES.
COHESION (KSF):	0.425	0.350	
PHI (DEG):	27	28	

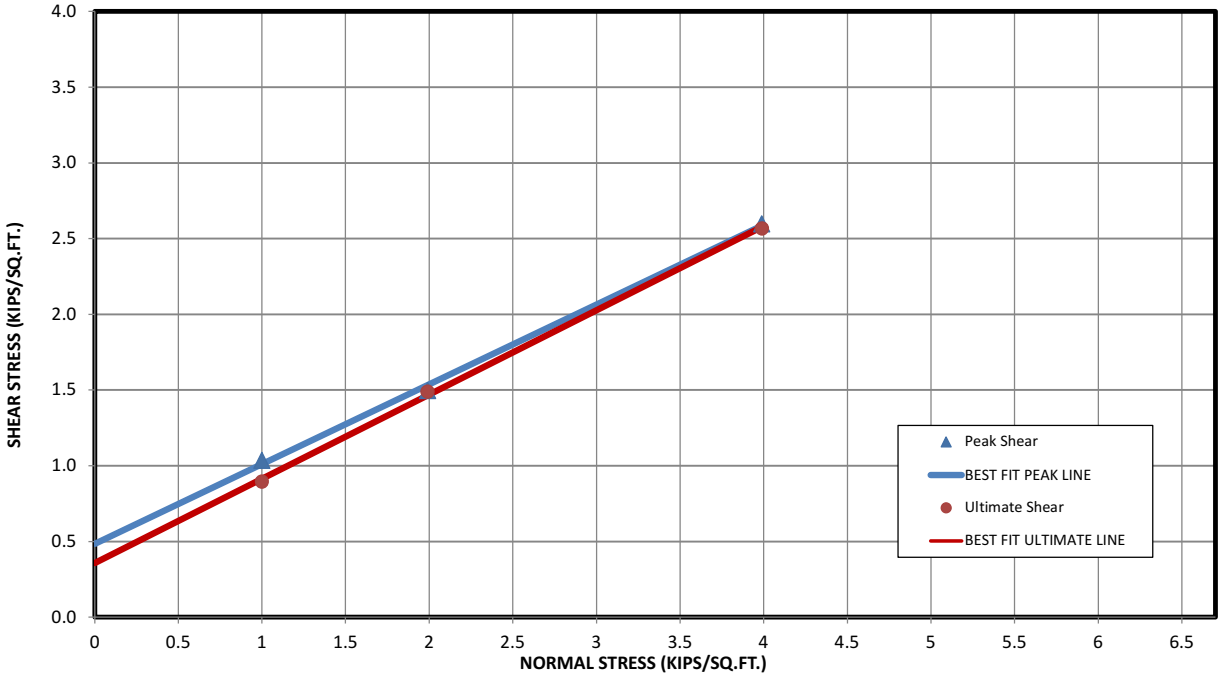
PRESHEAR DRY DENSITY (PCF):	144.6	112.4	112.4
PRESHEAR MOISTURE (% OF DD):		18.5	
EST.VOID RATIO, e (preshear):	0.12	0.44	0.44

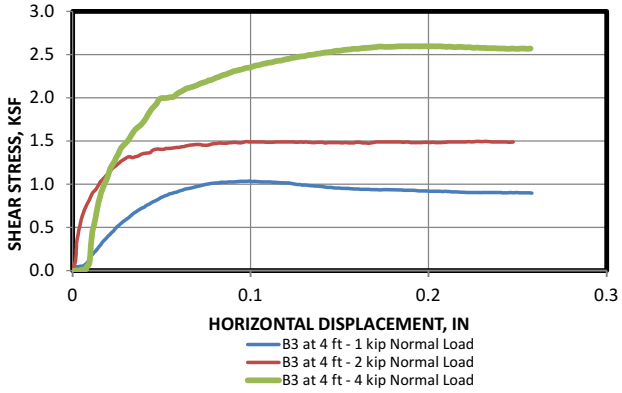
TEST FILES:

S:\GEOTEST\shears\GORIAN\TEST684.DAT
S:\GEOTEST\shears\GORIAN\TEST685.DAT
S:\GEOTEST\shears\GORIAN\TEST686.DAT

DIRECT SHEAR TEST RESULTS

Remolded 90% Relative Compaction





PROJECT:	Extra Space Storage - Santa Ana
W.O:	3230-0-0-100
EXCAVATION:	B3
DEPTH:	4 ft

TEST DATA:	#1	#2	#3
NORM. PRES. (KSF)	1.0	2.0	4.0
ULTIMATE			
SHEAR STRESS (KSF):	0.90	1.49	2.57
H.DISPL. (IN)	0.26	0.25	0.26
DISP. RATE (IN/MIN)	0.02	0.02	0.02
PEAK			
SHEAR STRESS (KSF):	1.04	1.50	2.60
H.DISPL. (IN)	0.10	0.23	0.19

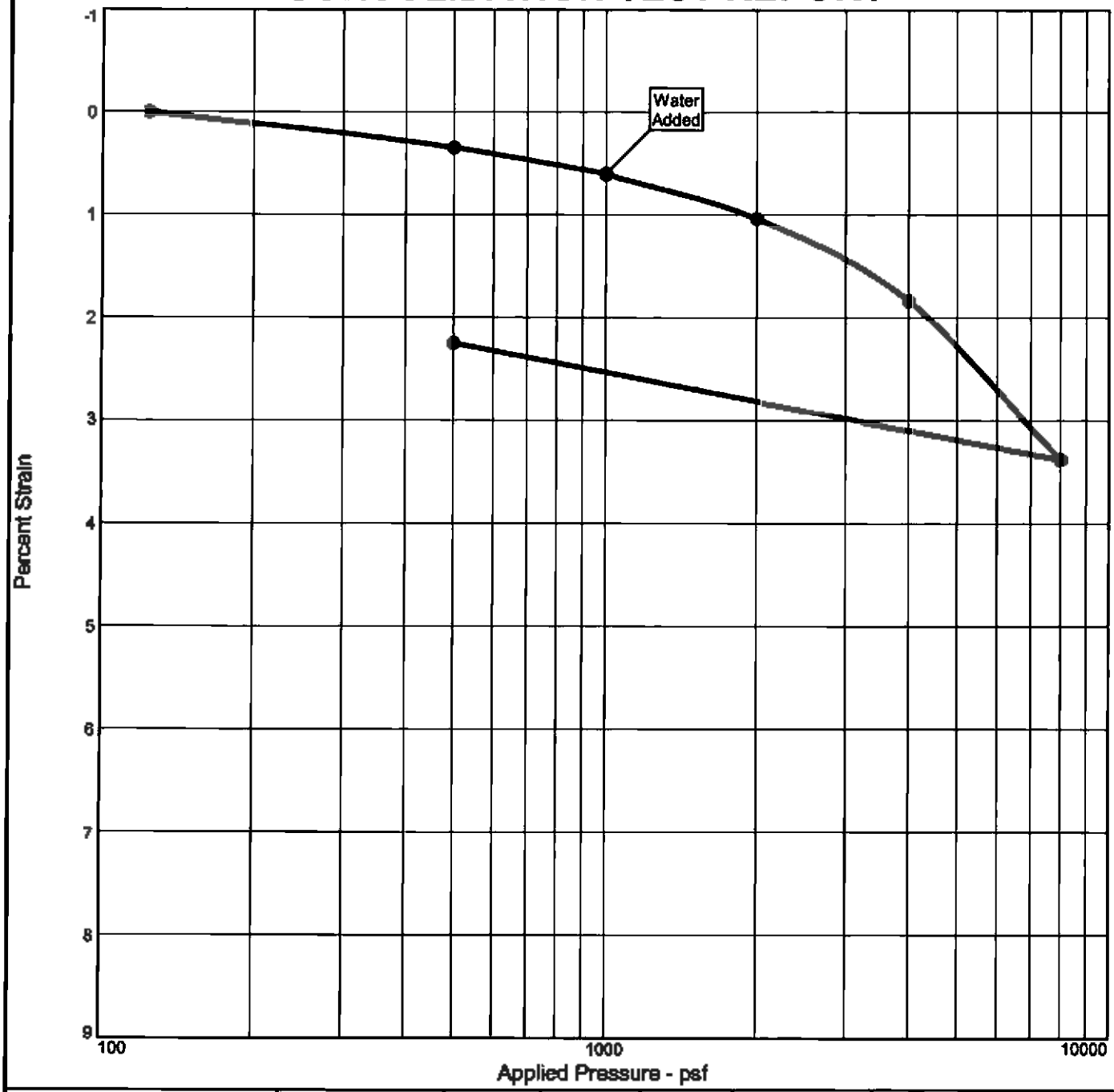
	PEAK	ULT.	RES.
COHESION (KSF):	0.475	0.350	
PHI (DEG):	28	29	

PRESHEAR DRY DENSITY (PCF):	119.0	150.3	152.4
PRESHEAR MOISTURE (% OF DD):		16.5	
EST.VOID RATIO, e (preshear):	0.36	0.08	0.06

TEST FILES:

S:\GEOTEST\shears\GORIAN\TEST680.DAT
S:\GEOTEST\shears\GORIAN\TEST682.DAT
S:\GEOTEST\shears\GORIAN\TEST683.DAT

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (psf)	C_c	Initial Void Ratio
Saturation	Moisture							
						3522		

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 3227-0-0- **Client:** Extra Space Storage

Project: Extra Space Storage, 1030 East 4th St., Santa Ana

Depth: B-3 @ 10'

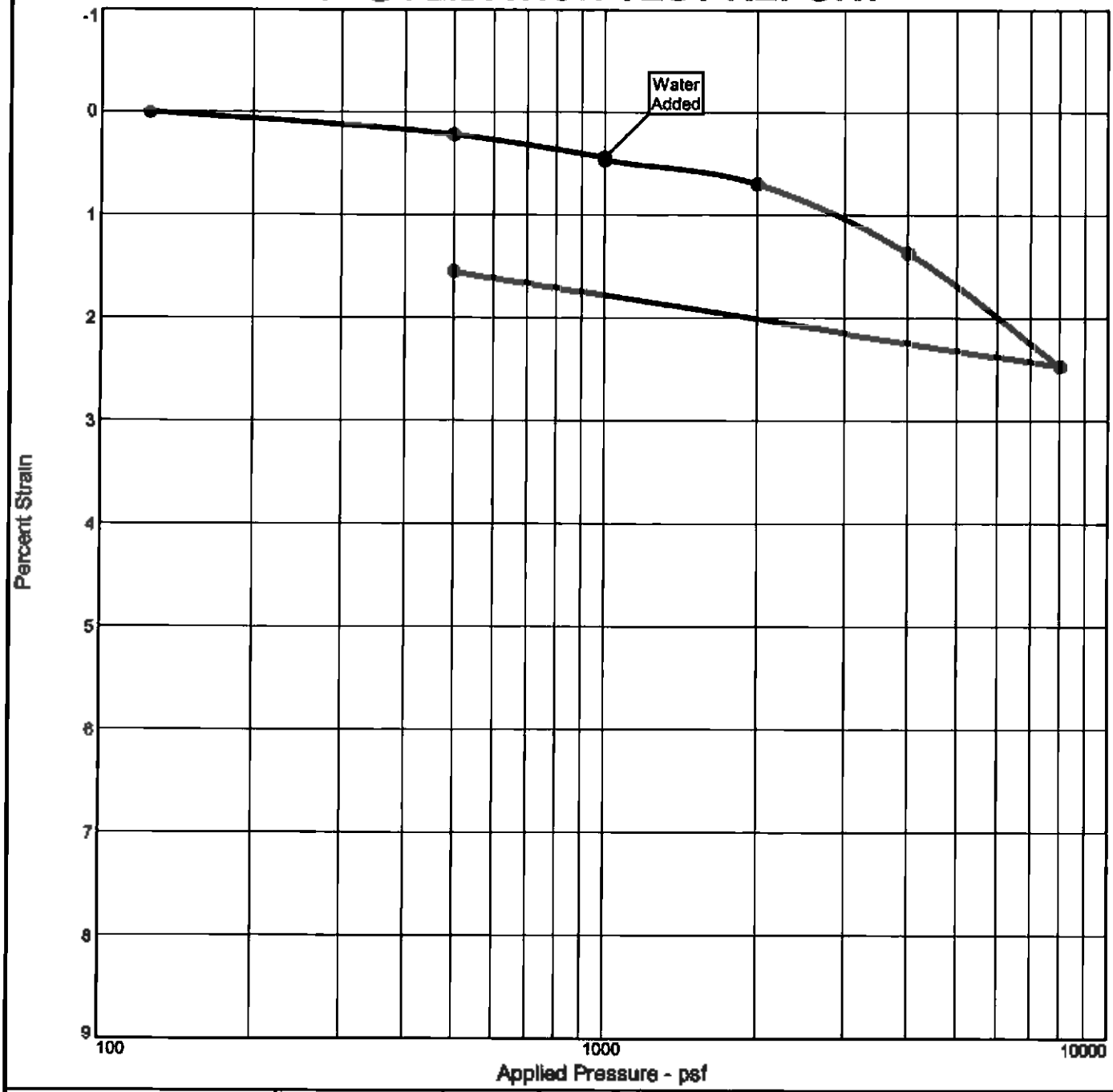
Remarks:

Gorian & Associates, Inc.

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (psf)	C_c	Initial Void Ratio
Saturation	Moisture							
						2864		

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 3227-0-0- **Client:** Extra Space Storage

Project: Extra Space Storage, 1030 East 4th St., Santa Ana

Depth: B-3 @5

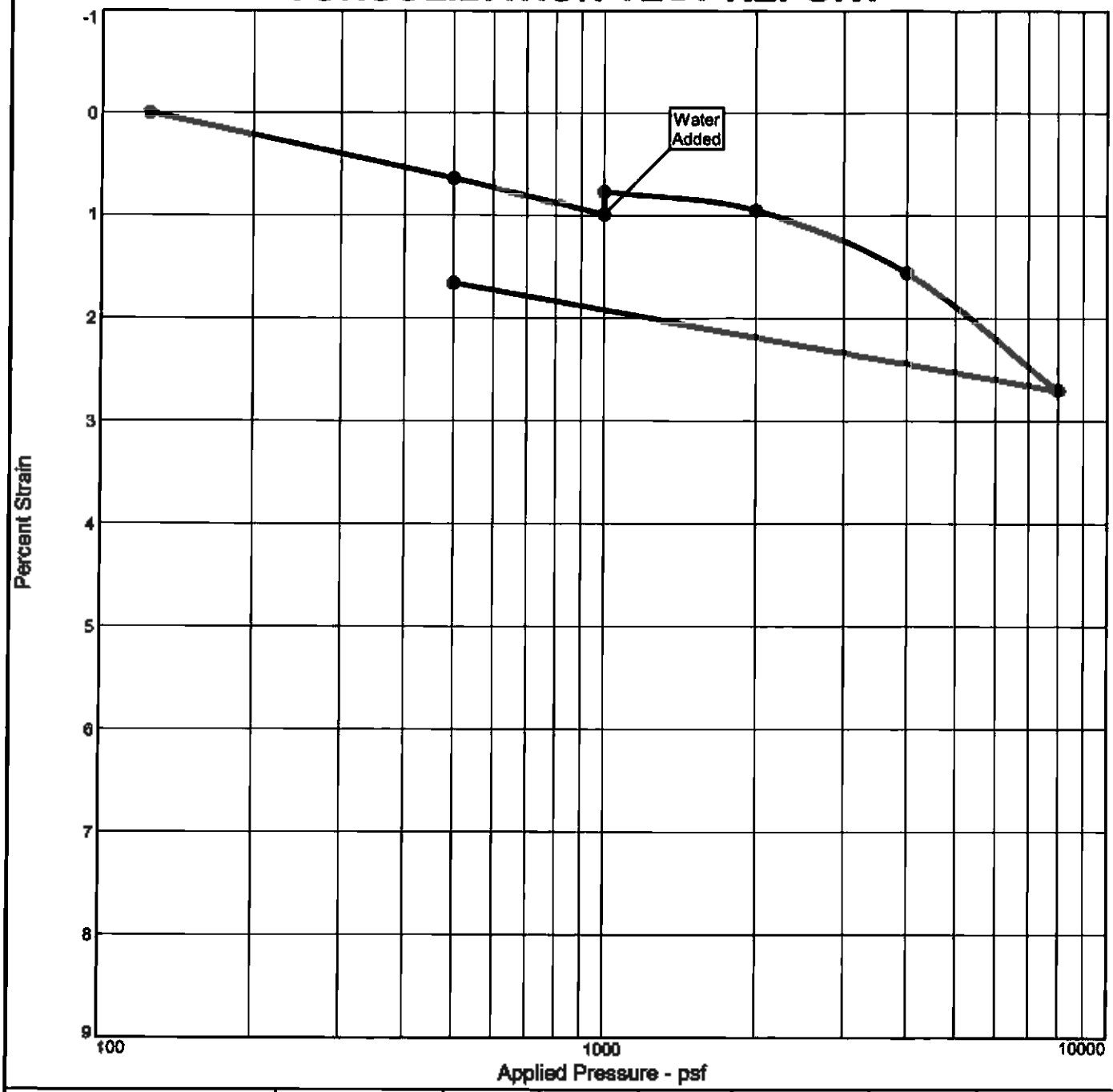
Remarks:

Gorian & Associates, Inc.

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (psf)	C_c	Initial Void Ratio
Saturation	Moisture							
						3032		

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 3227-0-0- **Client:** Extra Space Storage

Project: Extra Space Storage, 1030 East 4th St., Santa Ana

Depth: B-1 @ 10'

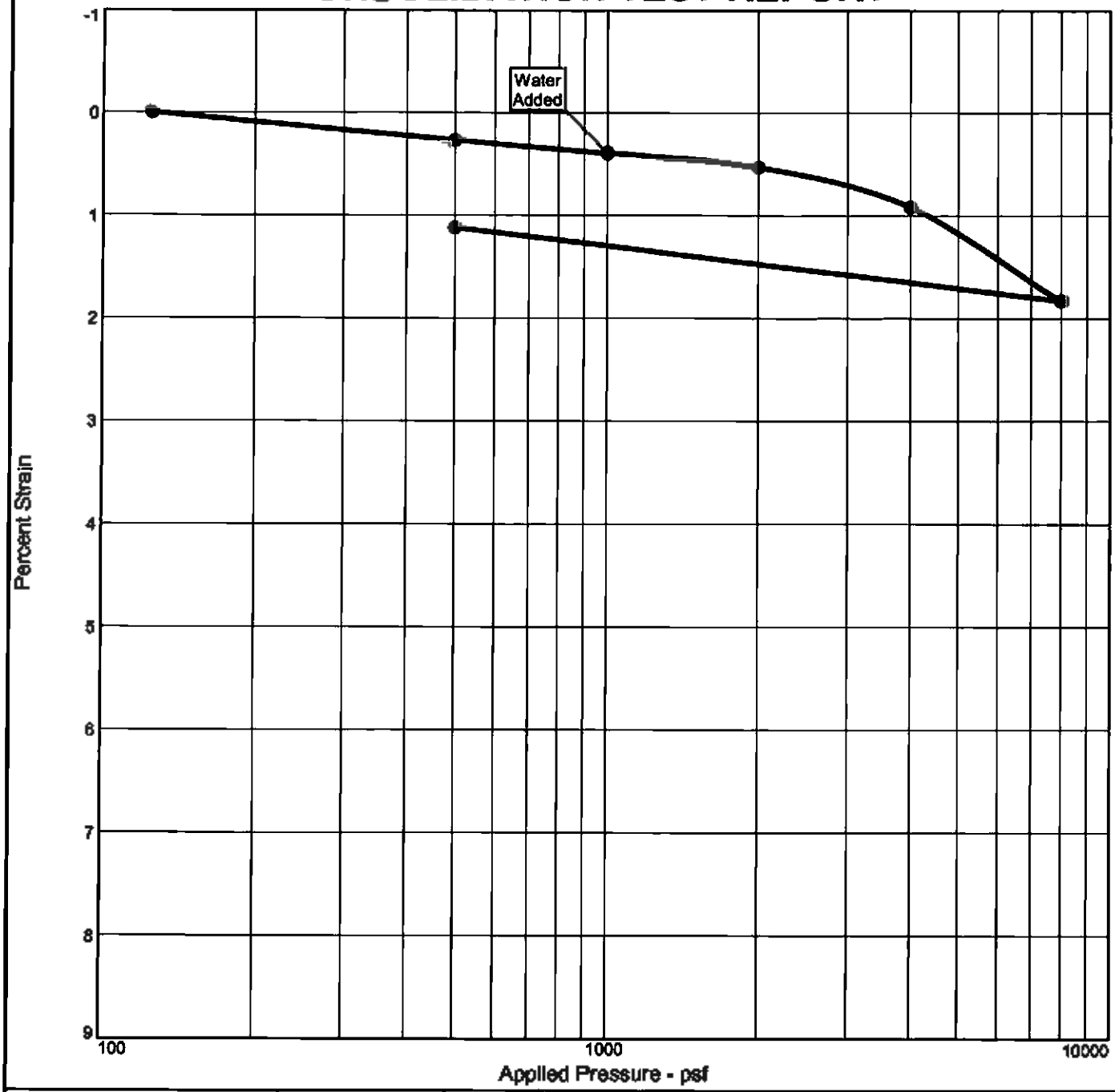
Remarks:

Gorian & Associates, Inc.

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	P_c (psf)	C_c	Initial Void Ratio
Saturation	Moisture							
						3542		

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 3227-0-0- **Client:** Extra Space Storage

Project: Extra Space Storage, 1030 East 4th St., Santa Ana

Depth: B-2 @ 5'

Remarks:

Gorian & Associates, Inc.

Thousand Oaks, CA

Figure

Soil Analysis Lab Results

Client: Gorian & Associates, Inc.
Job Name: Extra Space Storage Santa Ana
Client Job Number: 3227-0-0-100
Project X Job Number: S221102G
November 3, 2022

	Method	ASTM D4327		ASTM D4327		ASTM G187		ASTM G51	ASTM G200	SM 4500-D	ASTM D4327	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D6919	ASTM D4327	ASTM D4327
Bore# / Description	**Depth**	**Sulfates** SO_4^{2-}		**Chlorides** Cl^-		**Resistivity** As Rec'd | Minimum		**pH**	**Redox**	**Sulfide** S^{2-}	**Nitrate** NO_3^-	**Ammonium** NH_4^+	**Lithium** Li^+	**Sodium** Na^+	**Potassium** K^+	**Magnesium** Mg^{2+}	**Calcium** Ca^{2+}	**Fluoride** F_2^{--}	**Phosphate** PO_4^{3-}
	(ft)	(mg/kg)	(wt%)	(mg/kg)	(wt%)	(Ohm-cm)	(Ohm-cm)		(mV)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-1 Dark Yellowish Brown Sandy Clay some fine Gravel	5.0	103.7	0.0104	38.2	0.0038	5,494	1,742	7.7	140	0.09	144.3	1.1	0.02	85.0	5.0	35.8	137.3	2.3	2.1

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract
PPM = mg/kg (soil) = mg/L (Liquid)

APPENDIX C

STORMWATER INFILTRATION TESTING

Percolation Test Data Sheet

Project:	ESS	Project No:	3227-0-0-100	Date:	10/19/22
Test Hole No:	IB-1	Tested By:	Chip DeVault		
Depth of Test Hole, D_T:	15'	USCS Soil Classification:	SM		
Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8"	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	6:56	7:21	25	0.0	131	131	Y
2	7:21	7:46	25	0.0	131	131	Y

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	7:46	7:56	10	0.0	-8.0'	8.0'	
2	7:56	8:06	10	0.0	-6.8'	6.8'	
3	8:06	8:16	10	0.0	-6.4'	6.4'	
4	8:16	8:26	10	0.0	-6.0'	6.0'	
5	8:26	8:36	10	0.0	-5.4'	5.4'	
6	8:36	8:46	10	0.0	-5.5'	5.5'	
7	8:46	8:56	10	0.0	-5.5'	5.5'	
8							
9							
10							
11							
12							
13							
14							
15							

COMMENTS:

It = (ΔH(60r))/ Δt(r+2Have) = (66"*60*4)/ 10(4 +2*147) = 5.3 inch/hour
using a safety factor of 2 = It = 2.7 inch /hour

Percolation Test Data Sheet

Project:	ESS	Project No:	3227-0-0-100	Date:	10/19/22
Test Hole No:	IB-2	Tested By:	Chip DeVault		
Depth of Test Hole, D_T:	15'	USCS Soil Classification:	SM		
Test Hole Dimensions (inches)			Length	Width	
Diameter (if round)=	8"	Sides (if rectangular)=			

Sandy Soil Criteria Test*

Trial No.	Start Time	Stop Time	Time Interval, (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (y/n)
1	9:14	9:39	25	0.0	150	150	Y
2	9:39	10:04	25	0.0	147.6	147.6	Y

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Δt Time Interval (min.)	D_o Initial Depth to Water (in.)	D_f Final Depth to Water (in.)	ΔD Change in Water Level (in.)	Percolation Rate (min./in.)
1	10:04	10:14	10	0.0	-11.0'	11.0'	
2	10:14	10:24	10	0.0	-11.0'	11.0'	
3	10:24	10:34	10	0.0	-10.9'	10.9'	
4	10:34	10:44	10	0.0	-10.9'	10.9'	
5	10:44	10:54	10	0.0	-10.8'	10.8'	
6	10:54	11:04	10	0.0	-10.8'	10.8'	
7	11:04	11:14	10	0.0	-10.8'	10.8'	
8							
9							
10							
11							
12							
13							
14							
15							

COMMENTS:

It = (ΔH(60r))/ Δt(r+2Have) = (129.6"*60*4)/ 10(4 +2*115.2) = 13.3 inch/hour using a safety factor of 2 = It = 6.6 inch /hour

APPENDIX D

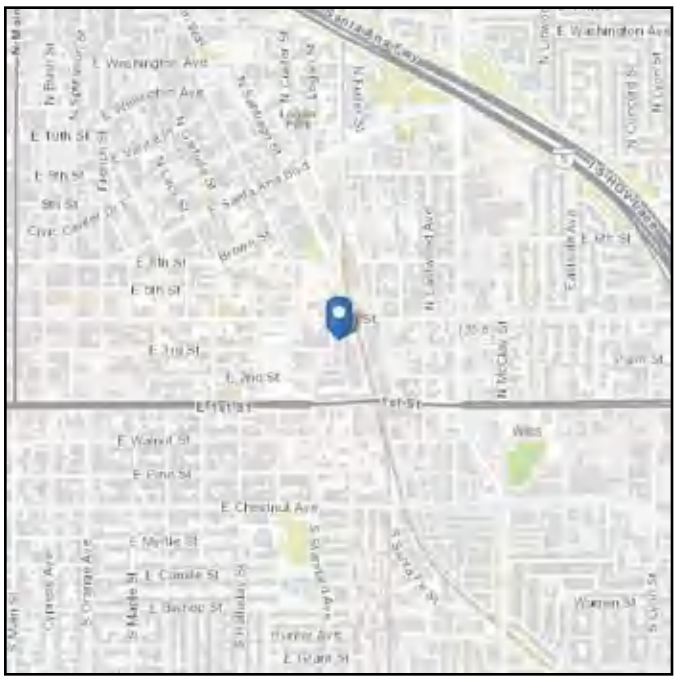
ASCE 7 HAZARDS REPORT

ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Latitude: 33.7474
Longitude: -117.8561
Elevation: 130.49 ft (NAVD 88)



Seismic

Site Soil Class: D - Stiff Soil

Results:

S_S :	1.287	S_{D1} :	N/A
S_1 :	0.459	T_L :	8
F_a :	1	PGA :	0.541
F_v :	N/A	PGA_M :	0.595
S_{MS} :	1.287	F_{PGA} :	1.1
S_{M1} :	N/A	I_e :	1
S_{DS} :	0.858	C_v :	1.357

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Fri Nov 11 2022

Date Source: USGS Seismic Design Maps

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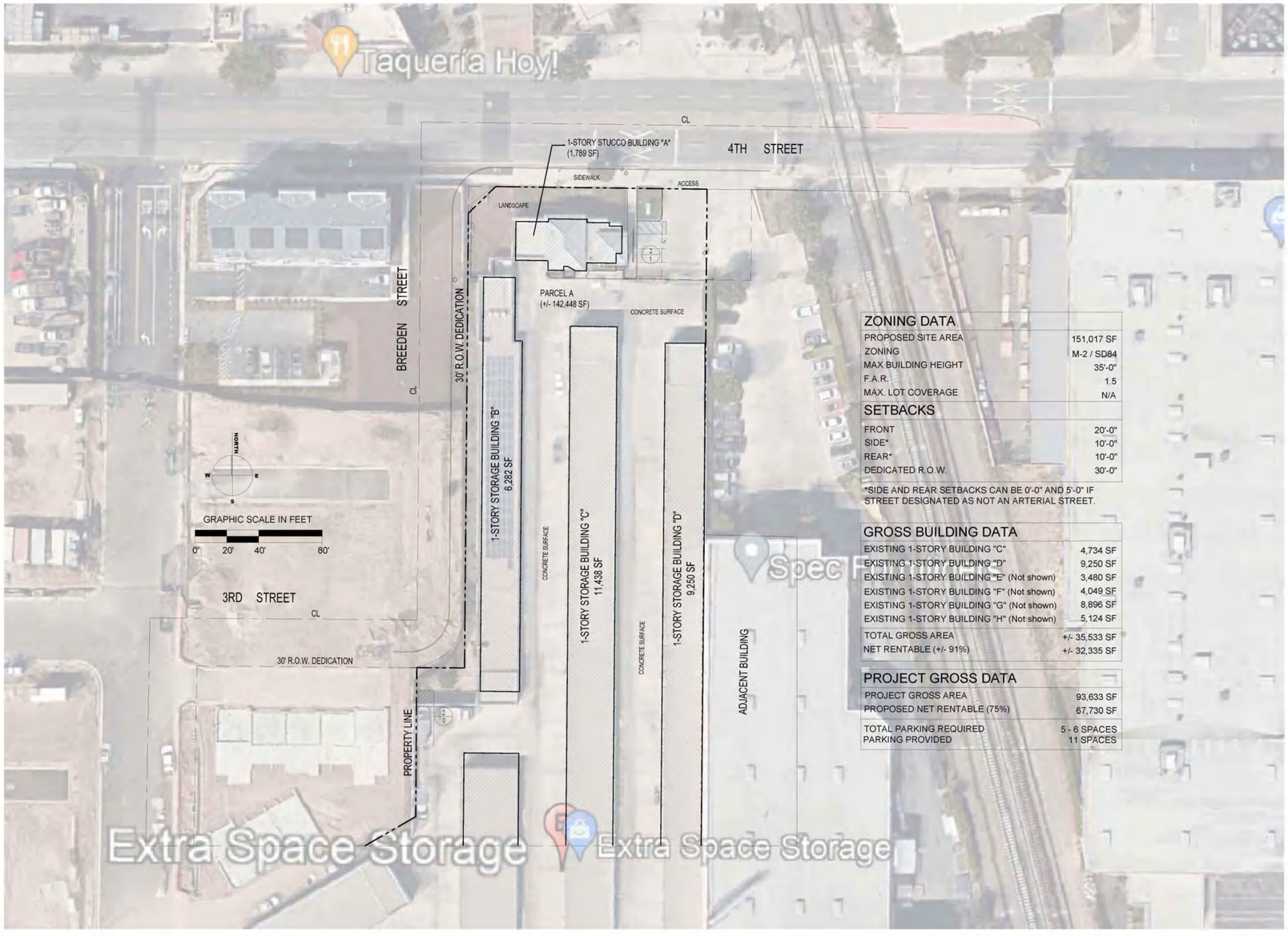
EXTRA SPACE STORAGE #1536 OF SANTA ANA, CA



ZONING DATA	
PROPOSED SITE AREA	151,017 SF
ZONING	M-2 / SD84
MAX BUILDING HEIGHT	35'-0"
F.A.R.	1.5
MAX. LOT COVERAGE	N/A
SETBACKS	
FRONT	20'-0"
SIDE*	10'-0"
REAR*	10'-0"
DEDICATED R.O.W.	30'-0"

*SIDE AND REAR SETBACKS CAN BE 0'-0" AND 5'-0" IF STREET DESIGNATED AS NOT AN ARTERIAL STREET.

GROSS BUILDING DATA	
EXISTING 1-STORY BUILDING "C"	4,734 SF
EXISTING 1-STORY BUILDING "D"	9,250 SF
EXISTING 1-STORY BUILDING "E" (Not shown)	3,480 SF
EXISTING 1-STORY BUILDING "F" (Not shown)	4,049 SF
EXISTING 1-STORY BUILDING "G" (Not shown)	8,896 SF
EXISTING 1-STORY BUILDING "H" (Not shown)	5,124 SF
TOTAL GROSS AREA	+/- 35,533 SF
NET RENTABLE (+/- 91%)	+/- 32,335 SF

PROJECT GROSS DATA	
PROJECT GROSS AREA	93,633 SF
PROPOSED NET RENTABLE (75%)	67,730 SF
TOTAL PARKING REQUIRED	5 - 6 SPACES
PARKING PROVIDED	11 SPACES

1 SITE PLAN
N.T.S.

PROJECT ADDRESS:	1030 E 4TH STREET SANTA ANA, CA 92701
PROJECT OWNER:	EXTRA SPACE STORAGE 2795 E. COTTONWOOD PARKWAY, SUITE 400 SALT LAKE CITY, UTAH 84121
PROJECT CONTACT:	DANNY MORRIS EXTRA SPACE STORAGE 2795 E. COTTONWOOD PARKWAY, SUITE 400 SALT LAKE CITY, UTAH 84121 PH: (856) 627-3234 Ext:115 E-MAIL: dmorris@extraspace.com

PROJECT SCOPE OF WORK:

EXTERIOR:

- NEW 3-STORY BUILDING (93,633 GSF)

FIRST FLOOR: 31,020 GSF
SECOND FLOOR: 31,020 GSF
THIRD FLOOR: 31,593 GSF

INTERIOR:

- NEW OFFICE (+/- 1,050 SF)
- NEW APARTMENT (+/- 1300 GSF)
- NEW UNIT MIX (+/- 67,455 NRSF @ 72% EFF.)

SHEET INDEX

A-00 COVER SHEET, SITE PLAN
A-01 PROPOSED SITE PLAN
A-02 UNIT MIX FLOOR PLANS
A-03 ELEVATIONS
A-04 ELEVATIONS COLOR
A-05 RENDERINGS
A-05.1 RENDERINGS

Gorian & Associates, Inc.
Applied Earth Sciences

Job No: 3227-0-0-100		Date: Nov. 2022
	Drawn by:	PLATE 1
	Approved by:	

VICINITY MAP
N.T.S.

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SHEET TITLE:
SITE PLAN, COVER SHEET

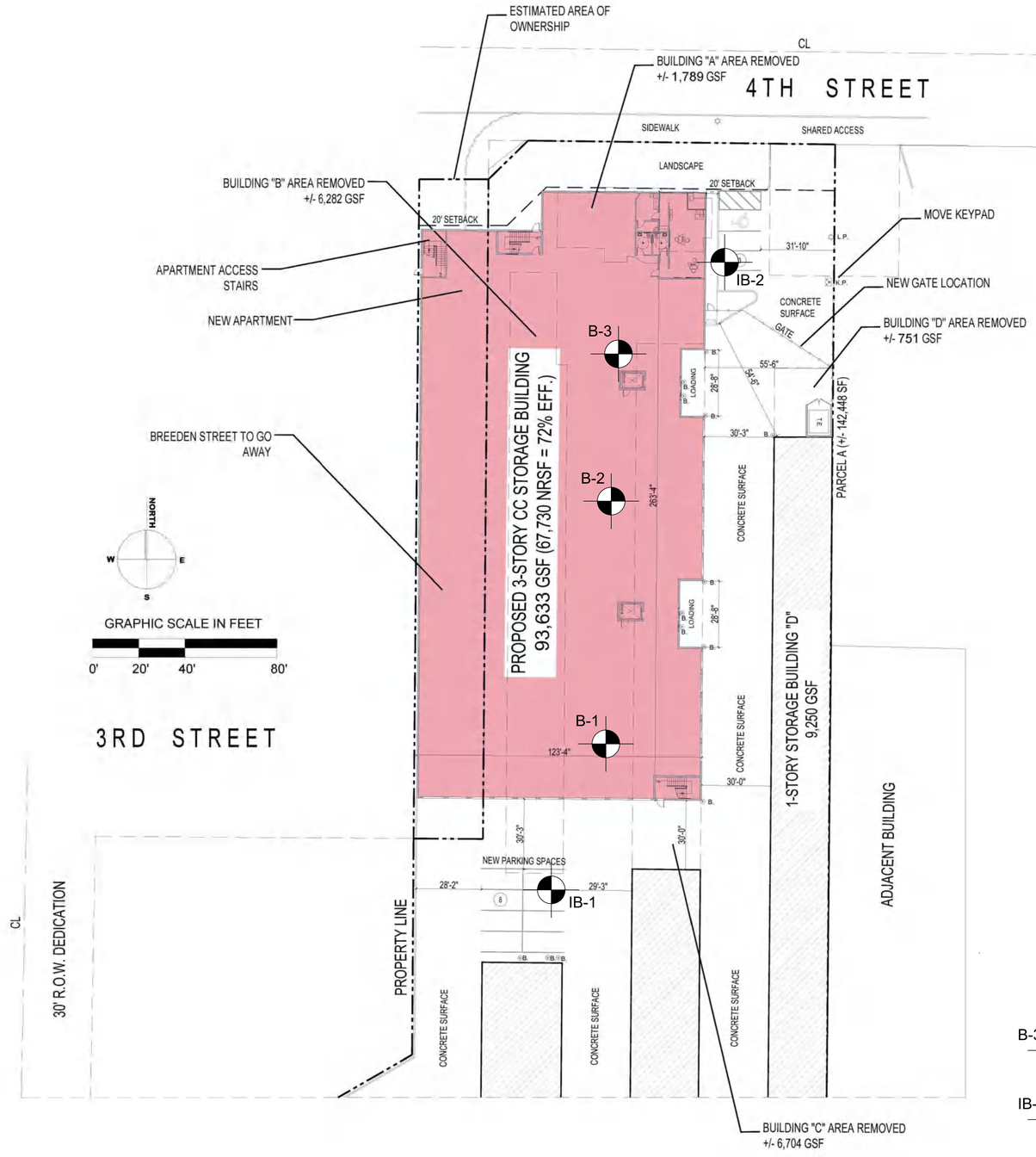
PROJECT LOCATION:
EXTRA SPACE STORAGE #1536
1030 E 4TH STREET
SANTA ANA, CA 92701

EST-1977 Extra Space Storage

EXTRA SPACE STORAGE, Inc..
CORPORATE OFFICE
2795 East Cottonwood Parkway, Suite 400
Salt Lake City, Utah 84121

DATE
08/05/22

SHEET NUMBER
A-00



ZONING DATA

PROPOSED SITE AREA	151,017 SF
ZONING	M-2 / SD84
MAX BUILDING HEIGHT	35'-0"
F.A.R.	1.5
MAX. LOT COVERAGE	N/A

SETBACKS

FRONT	20'-0"
SIDE*	10'-0"
REAR*	10'-0"
DEDICATED R.O.W.	30'-0"

*SIDE AND REAR SETBACKS CAN BE 0'-0" AND 5'-0" IF STREET DESIGNATED AS NOT AN ARTERIAL STREET.

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TOTAL GROSS AREA	+/- 35,533 SF
NET RENTABLE (+/- 91%)	+/- 32,335 SF

PROJECT GROSS DATA

PROJECT GROSS AREA	93,633 SF
PROPOSED NET RENTABLE (75%)	67,730 SF
TOTAL PARKING REQUIRED	5 - 6 SPACES
PARKING PROVIDED	11 SPACES

EXPLANATION

B-3 - Approximate Location of Exploratory Boring

IB-1 - Approximate Location of Infiltration Test Boring

BORING LOCATION MAP

Gorian & Associates, Inc.
Applied Earth Sciences

Job No: 3227-0-0-100		Date: Nov. 2022
Scale: 1" = 20'	Drawn by:	PLATE 2
	Approved by:	

1 PROPOSED SITE PLAN
N.T.S.

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SHEET TITLE:
PROPOSED SITE PLAN

PROJECT LOCATION:
EXTRA SPACE STORAGE #1536
1030 E 4TH STREET
SANTA ANA, CA 92701

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EST-1977 Extra Space Storage

EXTRA SPACE STORAGE, Inc..
CORPORATE OFFICE
2795 East Cottonwood Parkway, Suite 400
Salt Lake City, Utah 84121

DATE: 08/05/22

SHEET NUMBER: A-01

ATTACHMENT E

WATER QUALITY MANAGEMENT PLAN (WQMP)

City of Santa Ana

Priority Project

Preliminary Water Quality Management Plan (WQMP)

Project Name:

Extra Space Storage 1536 4th Street

Planning Application #DP-2024-8-ADD

1030 E. 4th Street, APN:398-461-18

Prepared for:

Extra Space Storage

2795 E. Cottonwood Parkway, Suite 400

Salt Lake City, UT 84121

(609) 682-1870

Prepared by:

Strand Engineering Inc., William F. Strand, PE

1001 Avenida Pico, Suite C121

San Clemente, CA 92673

(949) 431-0610, bstrand@strandengineeringinc.com

March 28, 2024, Rev June 20, 2024

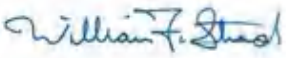
Project Owner's Certification			
Planning Application No. (If applicable)		Grading Permit No.	
Tract/Parcel Map and Lot(s) No.		Building Permit No.	TBD
Address of Project Site and APN (If no address, specify Tract/Parcel Map and Lot Numbers)			1030 E 4th Street, APN:398-461-18

This Water Quality Management Plan (WQMP) has been prepared for Extra Space Storage by Strand Engineering Inc.. The WQMP is intended to comply with the requirements of the County of Orange NPDES Stormwater Program requiring the preparation of the plan.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan , including the ongoing operation and maintenance of all best management practices (BMPs), and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the current Orange County Drainage Area Management Plan (DAMP) and the intent of the non-point source NPDES Permit for Waste Discharge Requirements for the County of Orange, Orange County Flood Control District and the incorporated Cities of Orange County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors-in-interest shall bear the aforementioned responsibility to implement and amend the WQMP. An appropriate number of approved and signed copies of this document shall be available on the subject site in perpetuity.

Representation on the Authority of Parties/Signatories. Each person signing this Agreement represents and warrants that he or she is duly authorized and has legal capacity to execute and deliver this Agreement. Each party represents and warrants to the other that the execution and delivery of the Agreement and the performance of such party's obligations hereunder have been duly authorized and that the Agreement is a valid and legal agreement binding on such party and enforceable in accordance with its terms. This agreement is binding on any successors in interest, designees or transferees. Attach proof of authority to execute this agreement.

Owner: John Bennett			
Title	Sr. Construction Manager		
Company	Extra Space Storage		
Address	2795 E. Cottonwood Parkway, Suite 400, Salt Lake City, UT 84121		
Email	JBennett@extraspace.com		
Telephone #	(801) 884-8565		
I understand my responsibility to implement the provisions of this WQMP including the ongoing operation and maintenance of the best management practices (BMPs) described herein.			
Owner Signature		Date	

Preparer (Engineer): William F. Strand, PE			
Title	President	PE Registration #	C 65712
Company	Strand Engineering Inc		
Address	1001 Avenida Pico, Suite C121		
Email	bstrand@strandengineeringinc.com		
Telephone #	(949) 431-0610		
I hereby certify that this Water Quality Management Plan is in compliance with, and meets the requirements set forth in, Order No. R8-2009-0030/NPDES No. CAS618030, of the Santa Ana Regional Water Quality Control Board.			
Preparer Signature		Date	6/20/2024
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Contents

Page No.

Section I	**Permit(s) and Water Quality Conditions of Approval or Issuance**	**1**
Section II	**Project Description**	**3**
Section III	**Site Description**	**8**
Section IV	**Best Management Practices (BMPs)**	**10**
Section V	**Inspection/Maintenance Responsibility for BMPs**	**24**
Section VI	**BMP Exhibit (Site Plan)**	**25**
Section VII	**Educational Materials**	**26**

Attachments

Appendix A..... ..... Supporting Calculations

Attachment A . ..... Educational Materials

Section I Permit(s) and Water Quality Conditions of Approval or Issuance

Provide discretionary or grading/building permit information and water quality conditions of approval, or permit issuance, applied to the project. If conditions are unknown, please request applicable conditions from staff. *Refer to Section 2.1 in the Technical Guidance Document (TGD) available on the OC Planning website (ocplanning.net).*

Project Infomation			
Permit/Application No. (If applicable)		Grading or Building Permit No. (If applicable)	
Address of Project Site (or Tract Map and Lot Number if no address) and APN	1030 E. 4th Street		
Water Quality Conditions of Approval or Issuance			
Water Quality Conditions of Approval or Issuance applied to this project. (Please list verbatim.)			
Conceptual WQMP			
Was a Conceptual Water Quality Management Plan previously approved for this project?			

Watershed-Based Plan Conditions	
Provide applicable conditions from watershed - based plans including WIHMPs and TMDLS.	Newport Bay TMDLs -Sediment -Nutrient -Toxics -Fecal Coliform

Section II Project Description

II.1 Project Description

Provide a detailed project description including:

- Project areas; 1.23 Acres (Total Site Area 3.48 Acres)
- Land uses; commercial (self-storage)
- Land cover; building, paving, landscaping
- Design elements; maximize landscape areas, maintain existing drainage patterns
- A general description not broken down by drainage management areas (DMAs). The site drains to the southwest corner of the site and the south property line (2 points of discharge) via a series of valley gutters.

Include attributes relevant to determining applicable source controls. *Refer to Section 2.2 in the Technical Guidance Document (TGD) for information that must be included in the project description.*

Description of Proposed Project				
Development Category (From Model WQMP, Table 7.11-2; or -3):	8. All significant redevelopment projects, where redevelopment is defined as the addition or replacement of 5,000 or more square feet of impervious surface on an already developed site.			
Project Area (ft^2): 34,412	Number of Dwelling Units: 0		SIC Code: 52103	
Project Area	Pervious		Impervious	
	Area (acres or sq ft)	Percentage	Area (acres or sq ft)	Percentage
Pre-Project Conditions	15,484	29%	38,099	71%
Post-Project Conditions	5,914	11%	47,669	89%
Drainage Patterns/Connections	Under existing conditions, the project site is fully developed. Runoff from the site drains to the southwest corner of the site and the south property line (2 points of discharge) via a series of valley gutters. Point of Discharge #1 (southwest corner) discharges via a sidewalk culvert to the gutter on N. Standard Avenue and eventually drain west in the north curb and gutter of E. 2nd Street before entering the City's storm drainage system. Point of Discharge #2 (south property line) discharges to a gutter which drains to the storm drain system in E. 1st Street.			

	flows southeast via a series of valley gutters to an existing sidewalk culvert which discharges through the curb face on Sullivan Street.
Narrative Project Description: (Use as much space as necessary.)	Runoff will be conveyed in a similar manner to existing conditions. Under proposed conditions, a trench drain will be constructed adjacent to the existing concrete valley gutter at the eastern edge of the project area to capture runoff from the proposed improvements. Additionally downspouts from the proposed building will be piped to the new storm drainage system and drain inlets will be installed on the north and west side of the proposed building. Runoff will be directed to a new underground retention basin for infiltration. The remainder of the site will continue to drain via existing valley gutters to the two existing points of discharge.

II.2 Potential Stormwater Pollutants

Determine and list expected stormwater pollutants based on land uses and site activities. *Refer to Section 2.2.2 and Table 2.1 in the Technical Guidance Document (TGD) for guidance.*

Pollutants of Concern			
Pollutant	Check One for each: E=Expected to be of concern N=Not Expected to be of concern		Additional Information and Comments
Suspended-Solid/ Sediment	E ☒	N ☐	Site Landscaping
Nutrients	E ☒	N ☐	Site Landscaping
Heavy Metals	E ☐	N ☒	
Pathogens (Bacteria/Virus)	E ☐	N ☒	
Pesticides	E ☒	N ☐	Site Landscaping
Oil and Grease	E ☒	N ☐	Commercial Development
Toxic Organic Compounds	E ☒	N ☐	Commercial Development
Trash and Debris	E ☒	N ☐	Commercial Development

II.3 Hydrologic Conditions of Concern

Determine if streams located downstream from the project area are potentially susceptible to hydromodification impacts. *Refer to Section 2.2.3.1 in the Technical Guidance Document (TGD) for North Orange County or Section 2.2.3.2 for South Orange County.*

☐ No – Show map

☒ Yes – Describe applicable hydrologic conditions of concern below. *Refer to Section 2.2.3 in the Technical Guidance Document (TGD).*

Per Figure 4 (Orange County Watershed Master Planning) the site is shown as "Potential Areas of Erosion, Habitat, & Physical Structure Susceptibility)

II.4 Post Development Drainage Characteristics

Describe post development drainage characteristics. *Refer to Section 2.2.4 in the Technical Guidance Document (TGD).*

Under proposed conditions, runoff will be conveyed in a similar manner to existing conditions. Runoff from the two proposed buildings will be captured via roof drains and routed to two underground retention basins for infiltration.

II.5 Property Ownership/Management

Describe property ownership/management. *Refer to Section 2.2.5 in the Technical Guidance Document (TGD).*

The property is owned and managed by Extra Space Storage. The owner will be responsible for the long-term inspection and maintenance of the project's stormwater BMP's.

Section III Site Description

III.1 Physical Setting

Fill out table with relevant information. *Refer to Section 2.3.1 in the Technical Guidance Document (TGD).*

Name of Planned Community/Planning Area (if applicable)	West Santa Ana Blvd Focus Area
Location/Address	2602 W. 5th Street/280 N. Sullivan Street
General Plan Land Use Designation	Flex, Industrial Flex 1.5
Zoning	M-1 Light Industrial
Acreage of Project Site	1.23
Predominant Soil Type	B

III.2 Site Characteristics

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. *Refer to Section 2.3.2 in the Technical Guidance Document (TGD).*

Site Characteristics	
Precipitation Zone	0.75 IN (85th Percentile)
Topography	The site is relatively flat and drains to the southeast at approximately 0.3%.

Drainage Patterns/Connections	Under existing conditions, the project site is fully developed and 100% impervious. Runoff from the site flows south via a series of valley gutters to the southwest corner of the site and the south property line (2 points of discharge) where if enters the City's storm drainage system (Delhi Channel) where it ultimately discharges to Newport Bay and the Pacific Ocean.
Soil Type, Geology, and Infiltration Properties	Based on Orange County Hydrology Manual Hydrologic Classification of Soils Plate B (Soils Map) the soils are HSG Soils Type B. Map included in Appendix A.
Hydrogeologic (Groundwater) Conditions	Per the site Geotechnical Report groundwater was not encountered to a depth of 46 feet. Per TGM Figure XVI-2f (North Orange County Groundwater Protection Areas) the site is not in a groundwater protection area.
Geotechnical Conditions (relevant to infiltration)	Infiltration rate = 1.8 in/hr (SF=3.0, Worksheet H)
Off-Site Drainage	Off-Site Drainage does not enter the project.
Utility and Infrastructure Information	Wet and dry utilities will be supplied from existing infrastructure in the surrounding right-of-ways.

III.3 Watershed Description

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. *Refer to Section 2.3.3 in the Technical Guidance Document (TGD).*

Receiving Waters	Upper Newport Bay
303(d) Listed Impairments	Sediment, Nutrients, PCB's, Toxicity, Indicator Bacteria, Chlordane, DDT, Copper, Malathion
Applicable TMDLs	Sediment, Nutrients, PCB's, Indicator Bacteria, Chlordane, DDT
Pollutants of Concern for the Project	Suspended Solids/Sediments, Nutrients, Pesticides, Oil & Grease, Trash & Debris

Environmentally Sensitive and Special Biological Significant Areas	Upper Newport Bay

Section IV Best Management Practices (BMPs)

IV. 1 Project Performance Criteria

Describe project performance criteria. Several steps must be followed in order to determine what performance criteria will apply to a project. These steps include:

- If the project has an approved WIHMP or equivalent, then any watershed specific criteria must be used and the project can evaluate participation in the approved regional or sub-regional opportunities. (Please ask your assigned planner or plan checker regarding whether your project is part of an approved WIHMP or equivalent.)
- Determine applicable hydromodification control performance criteria. *Refer to Section 7.II-2.4.2.2 of the Model WQMP.*
- Determine applicable LID performance criteria. *Refer to Section 7.II-2.4.3 of the Model WQMP.*
- Determine applicable treatment control BMP performance criteria. *Refer to Section 7.II-*3.2.2 *of the Model WQMP.*
- Calculate the LID design storm capture volume for the project. *Refer to Section 7.II-2.4.3 of the Model WQMP.*

(NOC Permit Area only) Is there an approved WIHMP or equivalent for the project area that includes more stringent LID feasibility criteria or if there are opportunities identified for implementing LID on regional or sub-regional basis?	YES ☐	NO ☒
If yes, describe WIHMP feasibility criteria or regional/sub-regional LID opportunities.		

Project Performance Criteria	
If HCOC exists, list applicable hydromodification control performance criteria (Section 7.II-2.4.2.2 in MWQMP)	2-YR Post Development Volume < 2-YR Pre Development (See HCOC Calculations)
List applicable LID performance criteria (Section 7.II-2.4.3 from MWQMP)	Infiltrate 85th percentile, 24-hr storm (0.75 IN)
List applicable treatment control BMP performance criteria (Section 7.II-3.2.2 from MWQMP)	
Calculate LID design storm capture volume for Project.	DCV (Sub-Basin P-1) = C x A x d x 43,560 sf/ac x 1/12 in/ft Where C = (.75 x imp + 0.15) = .75 x 0.89 + 0.15 = 0.82 A = 1.23 acres D = 0.75 (Figure XVI-1) DCV = 0.82 x 1.23 x 0.75 x 43,560 x 1/12 = 2,746 CF

IV.2. Site Design and Drainage

Describe site design and drainage including

- A narrative of site design practices utilized or rationale for not using practices;
- A narrative of how site is designed to allow BMPs to be incorporated to the MEP
- A table of DMA characteristics and list of LID BMPs proposed in each DMA.
- Reference to the WQMP "BMP Exhibit."
- Calculation of Design Capture Volume (DCV) for each drainage area.
- A listing of GIS coordinates for LID and Treatment Control BMPs.

Refer to Section 2.4.2 in the Technical Guidance Document (TGD).

Existing drainage patterns and time of concentration have been preserved.

Landscaping has been added to the maximum extent practicable.

Runoff from all of the proposed area to be improved will be infiltrated.

IV.3 LID BMP Selection and Project Conformance Analysis

Each sub-section below documents that the proposed design features conform to the applicable project performance criteria via check boxes, tables, calculations, narratives, and/or references to worksheets. *Refer to Section 2.4.2.3 in the Technical Guidance Document (TGD) for selecting LID BMPs and Section 2.4.3 in the Technical Guidance Document (TGD) for conducting conformance analysis with project performance criteria.*

IV.3.1 Hydrologic Source Controls (HSCs)

If required HSCs are included, fill out applicable check box forms. If the retention criteria are otherwise met with other LID BMPs, include a statement indicating HSCs not required.

Name	Included?
Localized on-lot infiltration	☐
Impervious area dispersion (e.g. roof top disconnection)	☐
Street trees (canopy interception)	☐
Residential rain barrels (not actively managed)	☐
Green roofs/Brown roofs	☐
Blue roofs	☐
Impervious area reduction (e.g. permeable pavers, site design)	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐
Other:	☐

HSCs Not Required

IV.3.2 Infiltration BMPs

Identify infiltration BMPs to be used in project. If design volume cannot be met, state why.

Name	Included?
Bioretention without underdrains	☐
Rain gardens	☐
Porous landscaping	☐
Infiltration planters	☐
Retention swales	☐
Infiltration trenches	☐
Infiltration basins	☐
Drywells	☐
Subsurface infiltration galleries	☒
French drains	☐
Permeable asphalt	☐
Permeable concrete	☐
Permeable concrete pavers	☐
Other:	☐
Other:	☐

Show calculations below to demonstrate if the LID Design Strom Capture Volume can be met with infiltration BMPs. If not, document how much can be met with infiltration and document why it is not feasible to meet the full volume with infiltration BMPs.

Sub-basin P-1 Underground Retention Basin Sizing

DCV = 2,746 CF

Retention Basin (Stormtech MC-3500 Chambers, 175 CF/chamber) = 2,746/175 = 16 chambers

Amin (Worksheet B) = 766 SF

Kdesign (Worksheet H) = 1.8 in/hr

Drawdown Time – Vol/Infiltration Rate = 2,746 CF/ (766 SF * 1.8 IN/HR/12 IN) = 24 HR

IV.3.3 Evapotranspiration, Rainwater Harvesting BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, describe any evapotranspiration and/or rainwater harvesting BMPs included.

Name	Included?
All HSCs; *See Section IV.3.1*	☐
Surface-based infiltration BMPs	☐
Biotreatment BMPs	☐
Above-ground cisterns and basins	☐
Underground detention	☐
Other:	☐
Other:	☐
Other:	☐

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with evapotranspiration and/or rainwater harvesting BMPs in combination with infiltration BMPs. If not, document below how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with these BMP categories.

N/A

IV.3.4 Biotreatment BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, and/or evapotranspiration and rainwater harvesting BMPs, describe biotreatment BMPs included. Include sections for selection, suitability, sizing, and infeasibility, as applicable.

Name	Included?
Bioretention with underdrains	☐
Stormwater planter boxes with underdrains	☐
Rain gardens with underdrains	☐
Constructed wetlands	☐
Vegetated swales	☐
Vegetated filter strips	☐
Proprietary vegetated biotreatment systems	☐
Wet extended detention basin	☐
Dry extended detention basins	☐
Other:	☐
Other:	☐

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with infiltration, evapotranspiration, rainwater harvesting and/or biotreatment BMPs. If not, document how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with these BMP categories.

N/A

IV.3.5 Hydromodification Control BMPs

Describe hydromodification control BMPs. *See Section 5 of the Technical Guidance Document (TGD).* Include sections for selection, suitability, sizing, and infeasibility, as applicable. Detail compliance with Prior Conditions of Approval (if applicable).

Hydromodification Control BMPs	
BMP Name	**BMP Description**

IV.3.6 Regional/Sub-Regional LID BMPs

Describe regional/sub-regional LID BMPs in which the project will participate. *Refer to Section 7.II-2.4.3.2 of the Model WQMP*.

Regional/Sub-Regional LID BMPs
Not applicable. On-Site Infiltration will be utilized for water quality treatment.

IV.3.7 Treatment Control BMPs

Treatment control BMPs can only be considered if the project conformance analysis indicates that it is not feasible to retain the full design capture volume with LID BMPs. Describe treatment control BMPs including sections for selection, sizing, and infeasibility, as applicable.

Treatment Control BMPs	
BMP Name	**BMP Description**

IV.3.8 Non-structural Source Control BMPs

Fill out non-structural source control check box forms or provide a brief narrative explaining if non-structural source controls were not used.

Non-Structural Source Control BMPs				
Identifier	**Name**	**Check One**		**If not applicable, state brief reason**
		Included	**Not Applicable**	
N1	Education for Property Owners, Tenants and Occupants	☒	☐	
N2	Activity Restrictions	☒	☐	
N3	Common Area Landscape Management	☒	☐	
N4	BMP Maintenance	☒	☐	
N5	Title 22 CCR Compliance (How development will comply)	☐	☒	No hazardous materials
N6	Local Industrial Permit Compliance	☐	☒	Not an industrial facility
N7	Spill Contingency Plan	☐	☒	No hazardous materials
N8	Underground Storage Tank Compliance	☐	☒	No underground storage tank
N9	Hazardous Materials Disclosure Compliance	☐	☒	No hazardous materials
N10	Uniform Fire Code Implementation	☐	☒	No hazardous materials
N11	Common Area Litter Control	☒	☐	
N12	Employee Training	☒	☐	
N13	Housekeeping of Loading Docks	☐	☒	No loading docks
N14	Common Area Catch Basin Inspection	☒	☐	
N15	Street Sweeping Private Streets and Parking Lots	☒	☐	
N16	Retail Gasoline Outlets	☐	☒	No retail gasoline

IV.3.9 Structural Source Control BMPs

Fill out structural source control check box forms or provide a brief narrative explaining if structural source controls were not used.

Structural Source Control BMPs				
Identifier	**Name**	**Check One**		**If not applicable, state brief reason**
		Included	**Not Applicable**	
S1	Provide storm drain system stenciling and signage	☒	☐	
S2	Design and construct outdoor material storage areas to reduce pollution introduction	☐	☒	No outdoor storage areas are proposed
S3	Design and construct trash and waste storage areas to reduce pollution introduction	☒	☐	
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control	☒	☐	
S5	Protect slopes and channels and provide energy dissipation	☐	☒	There are no slopes or channels on the site
	Incorporate requirements applicable to individual priority project categories (from SDRWQCB NPDES Permit)	☐	☐	
S6	Dock areas	☐	☒	No dock areas proposed
S7	Maintenance bays	☐	☒	No maintenance bays proposed
S8	Vehicle wash areas	☐	☒	No vehicle wash areas proposed
S9	Outdoor processing areas	☐	☒	No outdoor processing areas proposed
S10	Equipment wash areas	☐	☒	No equipment wash areas proposed
S11	Fueling areas	☐	☒	No Fueling areas proposed
S12	Hillside landscaping	☐	☒	There are no hillsides on the site
S13	Wash water control for food preparation areas	☐	☒	No proposed food prep areas
S14	Community car wash racks	☐	☒	No proposed car washes

IV.4 Alternative Compliance Plan (If Applicable)

Describe an alternative compliance plan (if applicable). Include alternative compliance obligations (i.e., gallons, pounds) and describe proposed alternative compliance measures. *Refer to Section 7.II 3.0 in the WQMP.*

IV.4.1 Water Quality Credits

Determine if water quality credits are applicable for the project. *Refer to Section 3.1 of the Model WQMP for description of credits and Appendix VI of the Technical Guidance Document (TGD) for calculation methods for applying water quality credits.*

<table>
<tr><th colspan="5">Description of Proposed Project</th></tr>
<tr><td colspan="5">Project Types that Qualify for Water Quality Credits (Select all that apply):</td></tr>
<tr><td colspan="2">☐Redevelopment projects that reduce the overall impervious footprint of the project site.</td><td colspan="2">☐Brownfield redevelopment, meaning redevelopment, expansion, or reuse of real property which may be complicated by the presence or potential presence of hazardous substances, pollutants or contaminants, and which have the potential to contribute to adverse ground or surface WQ if not redeveloped.</td><td>☐ Higher density development projects which include two distinct categories (credits can only be taken for one category): those with more than seven units per acre of development (lower credit allowance); vertical density developments, for example, those with a Floor to Area Ratio (FAR) of 2 or those having more than 18 units per acre (greater credit allowance).</td></tr>
<tr><td colspan="2">☐ Mixed use development, such as a combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that can demonstrate environmental benefits that would not be realized through single use projects (e.g. reduced vehicle trip traffic with the potential to reduce sources of water or air pollution).</td><td colspan="2">☐ Transit-oriented developments, such as a mixed use residential or commercial area designed to maximize access to public transportation; similar to above criterion, but where the development center is within one half mile of a mass transit center (e.g. bus, rail, light rail or commuter train station). Such projects would not be able to take credit for both categories, but may have greater credit assigned</td><td>☐ Redevelopment projects in an established historic district, historic preservation area, or similar significant city area including core City Center areas (to be defined through mapping).</td></tr>
<tr><td>☐Developments with dedication of undeveloped portions to parks, preservation areas and other pervious uses.</td><td>☐ Developments in a city center area.</td><td>☐ Developments in historic districts or historic preservation areas.</td><td>☐ Live-work developments, a variety of developments designed to support residential and vocational needs together – similar to criteria to mixed use development; would not be able to take credit for both categories.</td><td>☐In-fill projects, the conversion of empty lots and other underused spaces into more beneficially used spaces, such as residential or commercial areas.</td></tr>
</table>

Calculation of Water Quality Credits (if applicable)	Not applicable. Water quality credits will not be applied for the project. LID BMPs will be utilized for water quality treatment on-site in accordance with the MS4 Permit hierarchy identified at the beginning of this Section.

IV.4.2 Alternative Compliance Plan Information

Describe an alternative compliance plan (if applicable). Include alternative compliance obligations (i.e., gallons, pounds) and describe proposed alternative compliance measures. *Refer to Section 7.II 3.0 in the Model WQMP.*

Not Applicable. LID BMPs (infiltration) will be utilized for water quality treatment on-site in accordance with the MS4 Permit hierarchy identified at the beginning of this Section.

Section V Inspection/Maintenance Responsibility for BMPs

Fill out information in table below. Prepare and attach an Operation and Maintenance Plan. Identify the funding mechanism through which BMPs will be maintained. Inspection and maintenance records must be kept for a minimum of five years for inspection by the regulatory agencies. *Refer to Section 7.II 4.0 in the Model WQMP.*

BMP Inspection/Maintenance			
BMP	**Reponsible Party(s)**	**Inspection/ Maintenance Activities Required**	**Minimum Frequency of Activities**
INF-7 Underground Retention Basin 1	Owner	The system shall be inspected at a minimum of once every six months, prior to the start of the rainy season (October 1) each year, and after major storm events.	Inspected twice per year and maintained as needed
CDS UNIT	Owner	The system shall be inspected at a minimum of once every six months, prior to the start of the rainy season (October 1) each year, and after major storm events.	Inspected twice per year and maintained as needed

Section VI BMP Exhibit (Site Plan)

VI.1 BMP Exhibit (Site Plan)

Include a BMP Exhibit (Site Plan), at a size no less than 24" by 36," which includes the following minimum information:

- Insert in the title block (lower right hand corner) of BMP Exhibit: the WQMP Number (assigned by staff) and the grading/building or Planning Application permit numbers
- Project location (address, tract/lot number(s), etc.)
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural BMP locations
- Drainage delineations and flow information
- Delineate the area being treated by each structural BMP
- GIS coordinates for LID and Treatment Control BMPs
- Drainage connections
- BMP details
- Preparer name and stamp

Please do not include any areas outside of the project area or any information not related to drainage or water quality. The approved BMP Exhibit (Site Plan) shall be submitted as a plan sheet on all grading and building plan sets submitted for plan check review and approval. The BMP Exhibit shall be at the same size as the rest of the plan sheets in the submittal and shall have an approval stamp and signature prior to plan check submittal.

VI.2 Submittal and Recordation of Water Quality Management Plan

Following approval of the Final Project-Specific WQMP, three copies of the approved WQMP (including BMP Exhibit, Operations and Maintenance (O&M) Plan, and Appendices) shall be submitted. In addition, these documents shall be submitted in a PDF format.

Each approved WQMP (including BMP Exhibit, Operations and Maintenance (O&M) Plan, and Appendices) shall be recorded in the Orange County Clerk-Recorder's Office, prior to close-out of grading and/or building permit. Educational Materials are not required to be included.

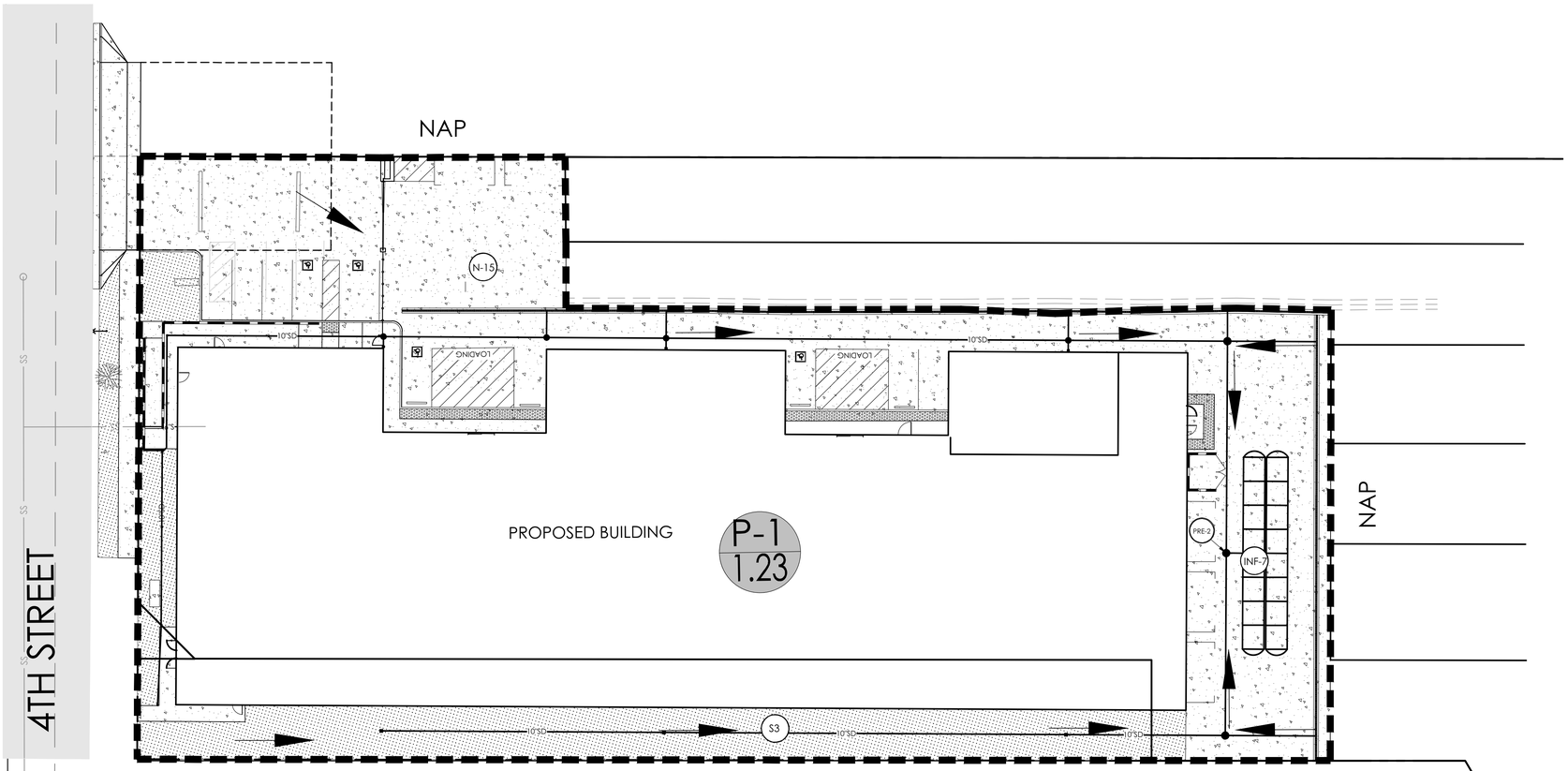
Section VII Educational Materials

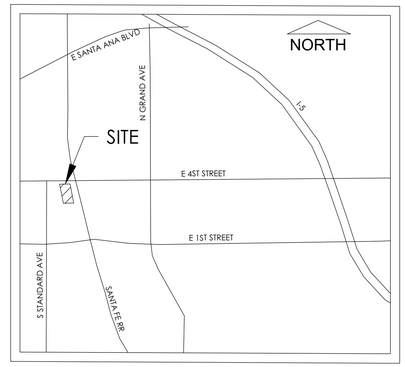
Refer to the Orange County Stormwater Program (ocwatersheds.com) for a library of materials available. Please only attach the educational materials specifically applicable to this project. Other materials specific to the project may be included as well and must be attached.

Education Materials			
Residential Material (http://www.ocwatersheds.com)	**Check If Applicable**	**Business Material (http://www.ocwatersheds.com)**	**Check If Applicable**
The Ocean Begins at Your Front Door	☒	Tips for the Automotive Industry	☐
Tips for Car Wash Fund-raisers	☐	Tips for Using Concrete and Mortar	☐
Tips for the Home Mechanic	☐	Tips for the Food Service Industry	☐
Homeowners Guide for Sustainable Water Use	☐	Proper Maintenance Practices for Your Business	☒
Household Tips	☐	**Other Material**	**Check If Attached**
Proper Disposal of Household Hazardous Waste	☐		
Recycle at Your Local Used Oil Collection Center (North County)	☐		☐
Recycle at Your Local Used Oil Collection Center (Central County)	☐		☐
Recycle at Your Local Used Oil Collection Center (South County)	☐		☐
Tips for Maintaining a Septic Tank System	☐		☐
Responsible Pest Control	☒		☐
Sewer Spill	☒		☐
Tips for the Home Improvement Projects	☐		☐
Tips for Horse Care	☐		☐
Tips for Landscaping and Gardening	☒		☐
Tips for Pet Care	☐		☐
Tips for Pool Maintenance	☐		☐
Tips for Residential Pool, Landscape and Hardscape Drains	☐		☐
Tips for Projects Using Paint	☐		☐

APPENDIX A

SUPPORTING CALCULATIONS





VICINITY MAP
NOT TO SCALE

STRUCTURAL & NON-STRUCTURAL SOURCE CONTROL BMPS

- (S1) CATCH BASIN STENCILING
- (S2) TRASH AND WASTE STORAGE AREA
- (S3) EFFICIENT IRRITATION
- (INF-7) INF-7 UNDERGROUND RETENTION BASIN (STORMCHAMBER MC-3500)
- (N15) STREET SWEEPING PRIVATE STREETS AND PARKING LOTS

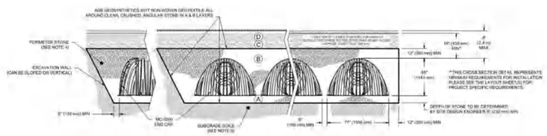
SUITABILITY/FEASIBILITY CONSTRAINTS LISTTREATMENT CONTROL BMPS

(PRE-2) CDS UNIT

DMI	LATITUDE	LONGITUDE
CDS UNIT	33°44'49.33''	117°51'22.29''
RETENTION BASIN	33°44'49.19''	117°51'22.16''

TOTAL AREA = 53,583
PERVIOUS AREA = 5,914
IMPERVIOUS AREA = 47,669

UNDERGROUND RETENTION BASIN DETAIL
NTS



LEGEND

- PROPERTY LINE
- NAP — NOT A PART
- SD — EXISTING STORM DRAIN
- PROPOSED DRAIN INLET
- 10" SD — PROPOSED STORM DRAIN
- PROPOSED LANDSCAPE
- M
- SUBAREA ACREAGE — SUBAREA/DRAINAGE MANAGEMENT AREA
- DIRECTION OF FLOW

Know what's below. Call before you dig.

NO.	REVISIONS	RECMD'D	APPRV'D	DATE
1				

0 10 20 40 60 feet
1"=20'

RECOMMENDED FOR APPROVAL:

JUNE 20, 2024

OWNER/DEVELOPER
EXTRA SPACE STORAGE
2795 EAST COTTONWOOD PARKWAY, SUITE 400
SALT LAKE CITY, UT 84121

GEOTECHNICAL/GEOLOGICAL FIRM

SOILS ENGINEER DATE

SEAL

CIVIL ENGINEERING FIRM
STRAND ENGINEERING, INC.
1001 Avenida Pico, Ste. C-121, San Clemente, CA 92673 (949) 431-0610

UNDER THE RESPONSIBLE CHARGE OF:

CIVIL ENGINEER DATE

SEAL
REGISTERED PROFESSIONAL ENGINEER
WILLIAM FREDERICK STRAND
No. C 65712
exp. 9/30/25
CIVIL
STATE OF CALIFORNIA

CITY OF SANTA ANA
APPROVED BY:

CITY ENGINEER LIC. DATE

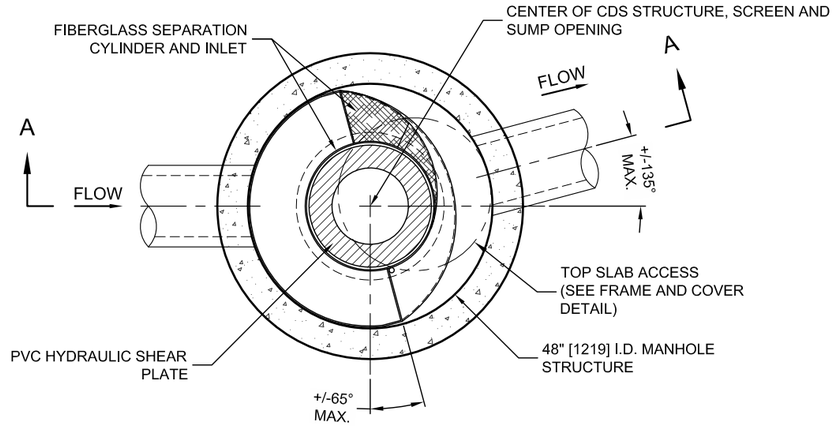
WQMP PLOT PLAN
FOR
EXTRA SPACE #1536 SANTA ANA
1030 E. 4TH STREET, SANTA ANA, CA

GRADING PERMIT NO.

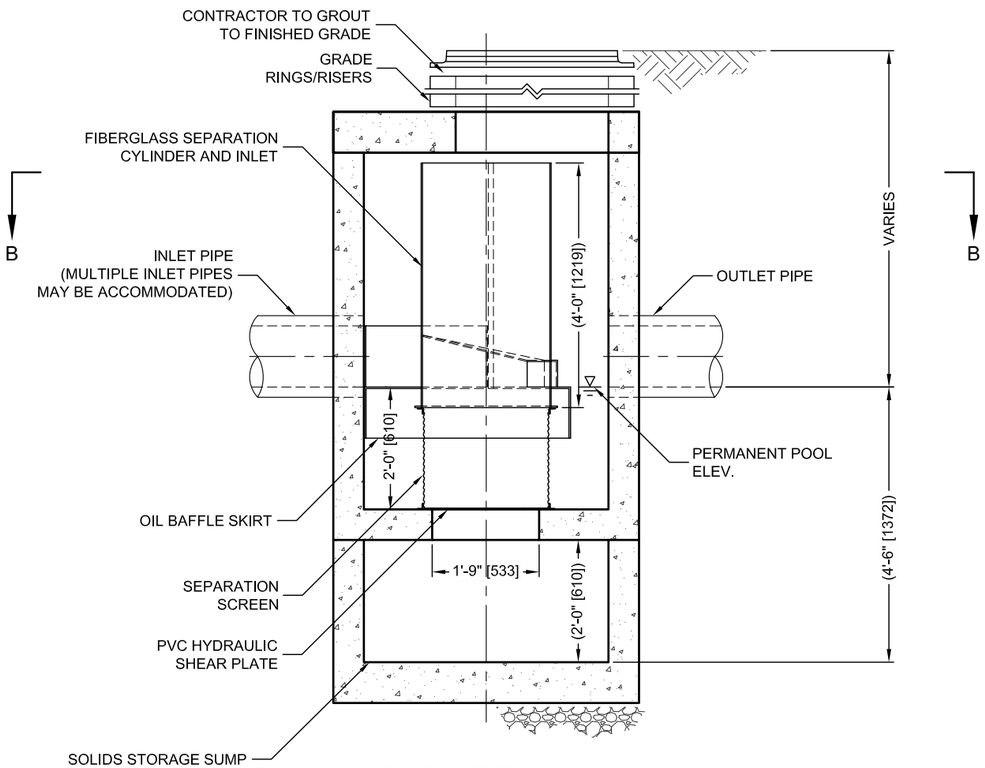
SHEET 1 OF 1

JOB NO.

C:\Users\shron\OneDrive - Strand Engineering Inc\Projects\1047 ESS Santa Ana 4th Street\Engineering\ConDocs\Sheet Files\1047-DK.dwg, WQMP, Jun 25, 2024 10:28am, shron



PLAN VIEW B-B
N.T.S.



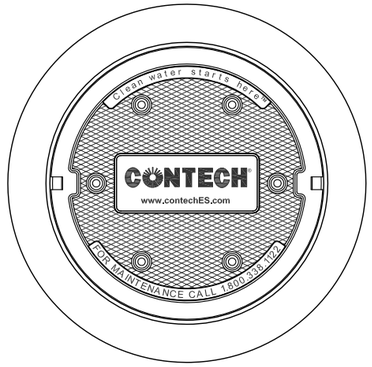
ELEVATION A-A
N.T.S.

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,788,848; 6,641,720; 6,511,595; 6,581,782; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

CDS2015-4-C DESIGN NOTES

THE STANDARD CDS2015-4-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/s)	*
PEAK FLOW RATE (CFS OR L/s)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
SCREEN APERTURE (2400 OR 4700)	*

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE 1	*	*	*
INLET PIPE 2	*	*	*
OUTLET PIPE	*	*	*

RIM ELEVATION	*

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT
	*	*

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET HS20 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH® ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

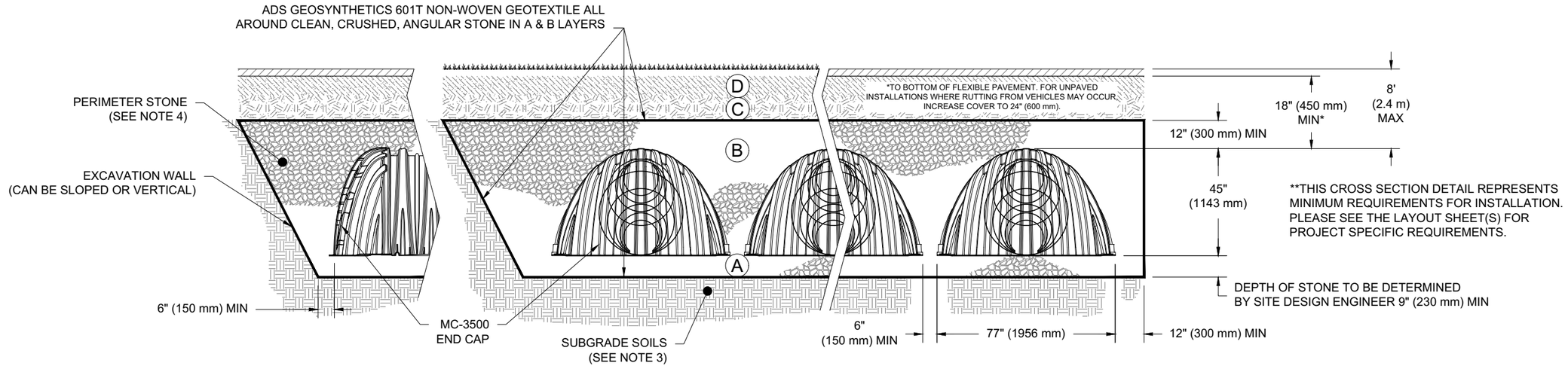
CDS2015-4-C INLINE CDS STANDARD DETAIL

C:\USERS\SCHLACHTERH\DESKTOP\CDS DETAILS 180 MICRON SIZING\ACAD\CDS2015-4-C-DTL.DWG 5/19/2014 5:16 PM

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MC-3500

STANDARD CROSS SECTION

DATE: 12/21/23 | DRAWN: SLS | PROJECT #: | CHECKED: SLS

DATE	DESCRIPTION	DRWN	CHKD

THIS DRAWING IS THE PROPERTY OF STORMTECH® AND IS NOT TO BE USED FOR ANY PROJECT OTHER THAN A PROJECT DESIGNED BY STORMTECH® OR ITS REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

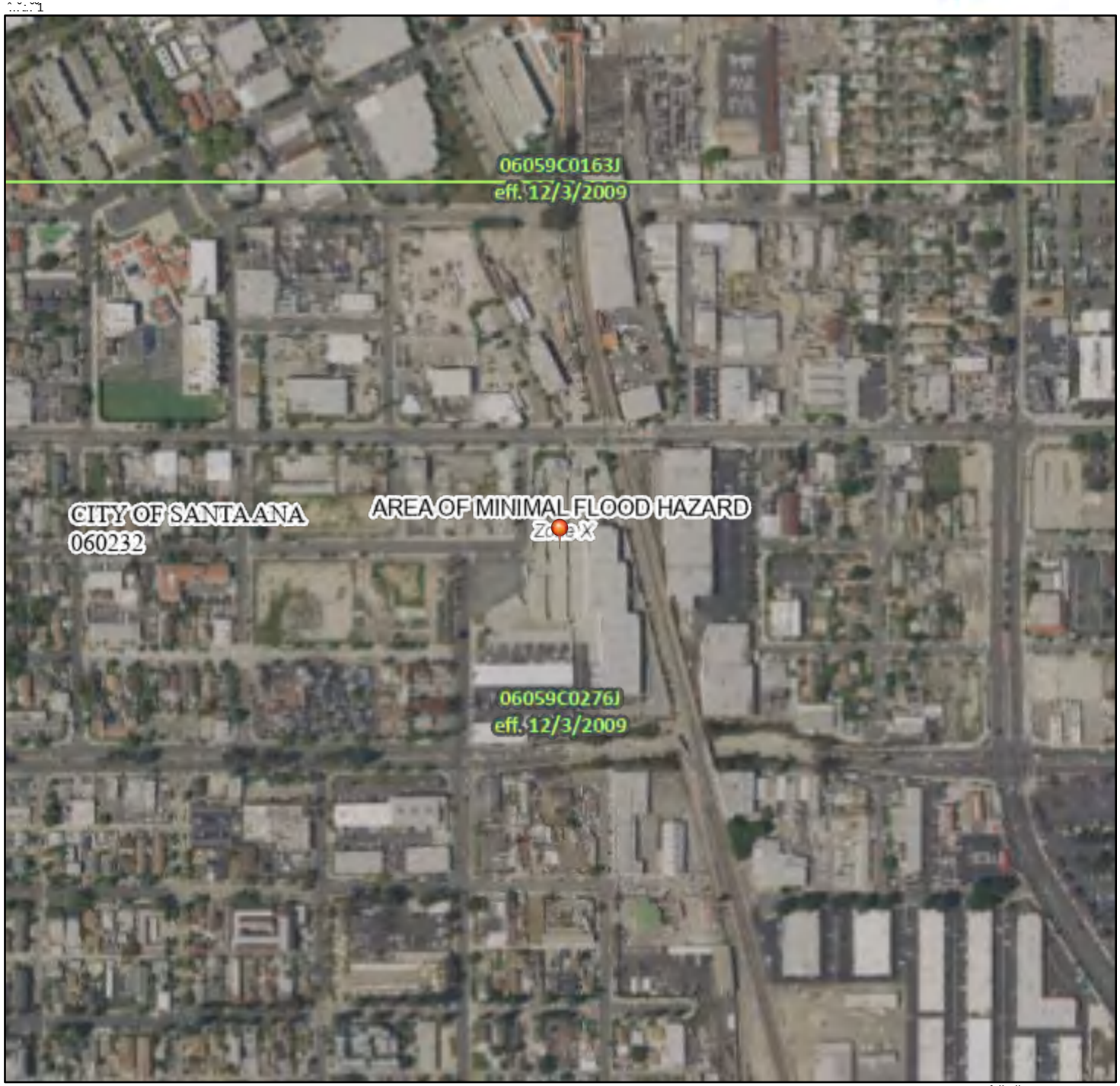
StormTech®
Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

1DWLRQDO)ORRG+D]DUG'DWD)6WWH

FEMA



)HHW

%DVHPDS,PDJHU\6RXUFH 86DWLRQDO DS

/HJHQG

6()6$)(6(1(5$/ 6$6

L:KHRXW %DVH)ORRG(OHYDWLRQ %()(
=RQH$ 9 $
L:LWK%DVH)ORRG(OHYDWLRQ =RQH$ $ 9 $ 9($
5HGXFHG)ORRG5LVN'XH7R/HYHH =RQH;

$UHDV1RW6XEMHFWWR&RQGLWLRQV$QQXDO &KDQFH)ORRG+D]DUG
RQDQQXDO FKDQFHIORRGZDWHUGHSWKOHVVWKDQIHHWRU ZLWKGUDLQDJH
DUHDVRI OHVVWKDQRQHVTXDUHPLOH=RQH;
)WXUH&RQGLWLRQV$QQXDO
&KDQFH)ORRG+D]DUG =RQH;
$UHDZLWK5HGXFHG)ORRG5LVNGXHWR
/HYHH6HH1RWHV =RQH;
$UHDZLWK)ORRG5LVNGXHWR/HYHH =RQH'

$UHDRI8QLQFOXGHG)ORRG+D]DUG =RQH;
(IIHFWLYH%9
$UHDRI8QGHWHUPLQHG)ORRG+D]DUG =RQH'
&KDQQHO &OYHUW RU6WUXFWXUH
/HYHH'LNH RU)ORRGZDOO

&URVV6HFWLRQVZLWK$QQXDO &KDQFH
DWHU6XUIDFH(OHYDWLRQ
&RDVWDO7UDQVHFW
%DVH)ORRG(OHYDWLRQ/LQH %(
/LPLW R6WUXFWXUH
-XULVGLFWLRQ%RXQGDU\
&RDVWDO7UDQVHFW%DVH/LQH
3URILOH%DVH/LQH
*URXQGDNLF)DWXUH

L'LWDO DWD$YDLODEOH
R'LWDO DWD$YDLODEOH
8QSSHG

7KHSLQGLVSODHGRQWKHPDSLV DQDSSUR[LPDWH
SRLQW VHOHFWHGE\WKHXVHU DQGGRHV QRW UHSUHV
DQDWKRULWDWLYHSURSHUW\ORFDWLRQ

7KLVPSFRQWDLQVZLWK$VVWDQGDUGIRU WKHXVHR
GLJLWDO IORRGPS/LI LW LVQRW YRLGDV GHVFULEHGEHORZ
7KHEDVHPDSVKRZQRQWKLVPSVEDVHPDS
DFFXUDWHVWDQGDUGV

7KHIORRGKD]DUGLQIRUPDWLRQLVGHULYHGGLUHFWO\IURPWKH
DWKRULWDWLYHKZEVHUYLFHVSURYLGHGE\$ 7KLVPS
ZDVSURGXFHGRQ DW DQGGRHV QRW
UHOHFW FKDQJHV RU DPHQGPHQWV VXEVHTXHQW WR WKLVGDWH DQG
WLPH 7KHUHDQGHIIHFWLYHLQIRUPDWLRQPD\FKDQJHRU
EHFRPHVXSHUVHGHGE\QHZGDWDRYHU WLPH

7KLVPSLPHLVYRLGLI WKHIRQHRU RUHR WKHIOORZLQJPS
HOHPHQWVGRQRW DSSHDU, EDVHPSLPH\\ IORRGJRQHODEHOV
OHHQG VFDOHEDU PSFUHDWLRQGDWH FRRQL W\LGHQWLILHUV
)6$QO QXHU DQG5HIHUHQFHGDWH DSLPHVIRU
XQPSSHGDQGXQGHUODLHGDWDVFDQQRW EHXVHGIRU
UHJXODWRU\SURSRVH

%DVHPDS,PDJHU\6RXUFH 86DWLRQDO DS

SUBJECT TO FURTHER REVISION

LEGEND

- Orange County Precipitation Stations
- 24 Hour, 85th Percentile Rainfall (Inches)
- 24 Hour, 85th Percentile Rainfall (Inches) - Extrapolated
- City Boundaries

Rainfall Zones

Design Capture Storm Depth (inches)

- 0.65"
- 0.7
- 0.75
- 0.80
- 0.85
- 0.90
- 0.95
- 1.00
- 1.10"

Note: Events defined as 24-hour periods (calendar days) with greater than 0.1 inches of rainfall.
For areas outside of available data coverage, professional judgment shall be applied.

0.65 0.7 0.75 0.8 0.85 0.9 0.95 1 1.05 1.1

LOS ANGELES COUNTY
ORANGE COUNTY
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
SITE

0 3 6 12 Kilometers
0 1.8 3.6 7.2 Miles

P:\9526E\6-GIS\Mxds\Reports\InfiltrationFeasability_20110215\9526E_FigureXVI-1_RainfallZones_20110215.mxd

TITLE: RAINFALL ZONES

JOB: ORANGE COUNTY TECHNICAL GUIDANCE DOCUMENT — ORANGE CO. — CA

SCALE	1" = 1.8 miles
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	04/22/10
JOB NO.	9526-E

PACE Advanced Water Engineering

FIGURE XVI-1

SUBJECT TO FURTHER REVISION

LOS ANGELES COUNTY
ORANGE COUNTY

SAN BERNARDINO COUNTY
ORANGE COUNTY

RIVERSIDE COUNTY
ORANGE COUNTY

LOS ANGELES COUNTY
ORANGE COUNTY

SITE

LEGEND

- City Boundaries
- OCWD Groundwater Basin Protection Boundary

Plume Protection Boundaries

- North Basin Groundwater Protection Project
- South Basin Groundwater Protection Project
- El Toro Marine Base
- Tustin Marine Air Base
- Approximate Selenium Contamination Area

Note: Individual contamination sites are not plotted.
See State Water Resources Control Board Geotracker database (http://geotracker.waterboards.ca.gov),
Department of Toxic Substance Control Envirostor database (http://www.envirostor.dtsc.ca.gov) and other applicable sources for current listing of active contaminated sites.

Groundwater basin and plume protection boundaries for South Orange County are not shown on this exhibit at this time

0 2 4 8 Kilometers
0 1.25 2.5 5 Miles

TITLE
NORTH ORANGE COUNTY GROUNDWATER PROTECTION AREAS

ORANGE COUNTY INFILTRATION STUDY

JOB
ORANGE CO. CA

SCALE	1" = 1.25 miles
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	04/22/10
JOB NO.	9526-E

PACE
Advanced Water Engineering

FIGURE
XVI-2f

P:\9526E\6-GIS\Mxds\Reports\InfiltrationFeasability_20110215\9526E_FigureXVI-2f_NorthOCGroundwaterProtectionAreasStreetMap_20110215.mxd

Susceptibility

Potential Areas of Erosion, Habitat, & Physical Structure Susceptibility

Channel Type

- Earth (Unstable)
- Earth (Stabilized)
- Stabilized

Tidal Influence

- <= Mean High Water Line (4.28')

Water Body

- Basin
- Dam
- Lake
- Reservoir

Other Lands

- Airport/Military

AnaheimBay-HuntingtonHarbor Watershed

Santa Ana River Watershed

SITE

El Modena-Irvine Retarding Basin

Lower Peters Canyon Retarding Basin

Eastfoot Retarding Basin

Orchard Estates Retention Basin

Hicks Canyon Retarding Basin

Rattlesnake Reservoir

East Hicks Canyon Retarding Basin

Siphon Reservoir

Bee Canyon Retarding Basin

Round Canyon Retarding Basin

Trabuco Retarding Basin

Marshburn Retarding Basin

Agua Chinon Retarding Basin

Santa Ana River Watershed

John Wayne Airport

North Lake

South Lake

Basin Number 2

Basin Number 1

Sand Canyon Reservoir

Laguna Reservoir

Bonita Canyon Reservoir

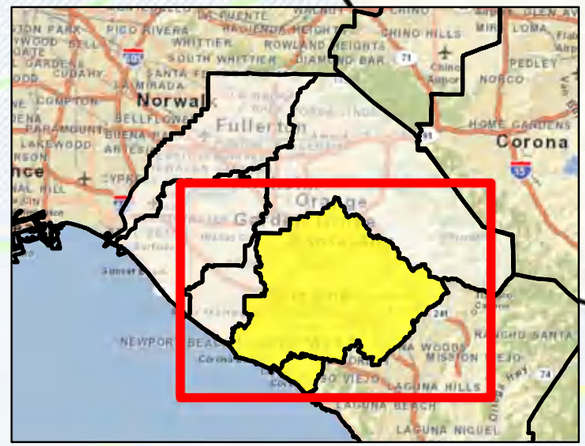
San Joaquin Reservoir

Big Canyon Reservoir

Harbor View Dam

Village Pond Park

South Orange County



0 9,000 18,000 Feet

TITLE: SUSCEPTIBILITY ANALYIS NEWPORT BAY-NEWPORT COASTAL STREAMS

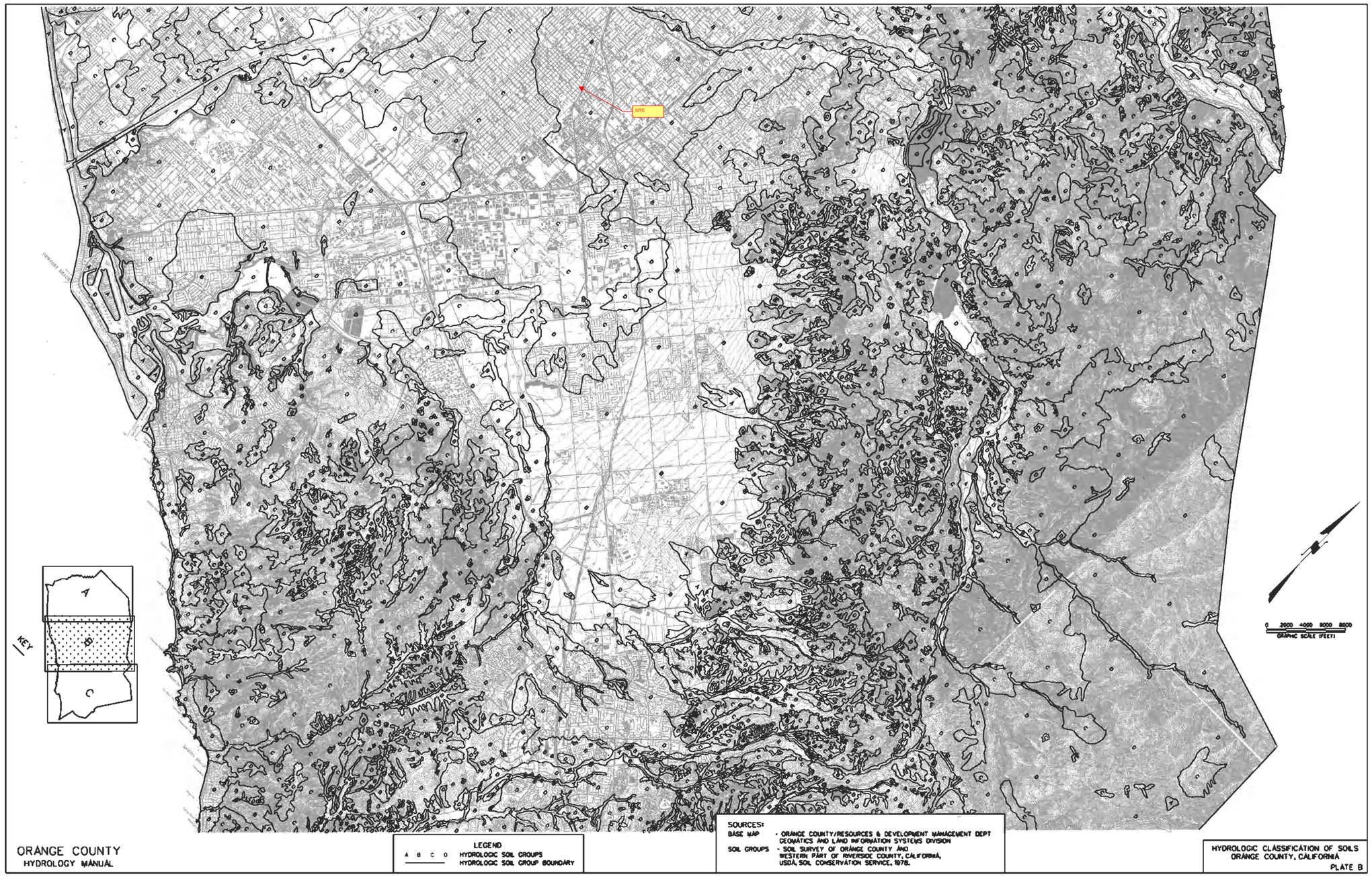
JOB: ORANGE COUNTY WATERSHED MASTER PLANNING ORANGE CO. CA

SCALE	1" = 12000'
DESIGNED	TH
DRAWING	TH
CHECKED	BMP
DATE	04/30/10
JOB NO.	9526-E

PACE Advanced Water Engineering

FIGURE 4

P:\9526E\6-GIS\Mxds\SuceptabilityMaps_20100505\9526E_NewportBaySuscseptibility_20100430.mxd


SITE
A
B
C
KEY
0 2000 4000 6000 8000
GRAPHIC SCALE (FEET)
LEGEND
A B C D HYDROLOGIC SOIL GROUPS
HYDROLOGIC SOIL GROUP BOUNDARY
SOURCES:
BASE MAP - ORANGE COUNTY/RESOURCES & DEVELOPMENT MANAGEMENT DEPT GEOMATICS AND LAND INFORMATION SYSTEMS DIVISION
SOIL GROUPS - SOIL SURVEY OF ORANGE COUNTY AND WESTERN PART OF RIVERSIDE COUNTY, CALIFORNIA, USDA, SOIL CONSERVATION SERVICE, 1978.
ORANGE COUNTY
HYDROLOGY MANUAL
HYDROLOGIC CLASSIFICATION OF SOILS
ORANGE COUNTY, CALIFORNIA
PLATE B

Worksheet B: Simple Design Capture Volume Sizing Method

Step 1: Determine the design capture storm depth used for calculating volume				
1	Enter design capture storm depth from Figure III.1, *d* (inches)	d=	0.75	inches
2	Enter the effect of provided HSCs, d_{HSC} (inches) (Worksheet A)	d_{HSC}=	0	inches
3	Calculate the remainder of the design capture storm depth, $d_{remainder}$ (inches) (Line 1 – Line 2)	$d_{remainder}$=	0.75	inches
Step 2: Calculate the DCV				
1	Enter Project area tributary to BMP (s), *A* (acres)	A=	1.23	acres
2	Enter Project Imperviousness, *imp* (unitless)	imp=	0.89	
3	Calculate runoff coefficient, *C= (0.75 x imp) + 0.15*	C=	0.82	
4	Calculate runoff volume, V_{design}= *(C x* $d_{remainder}$ *x A x 43560 x (1/12))*	V_{design}=	2,746	cu-ft
Step 3: Design BMPs to ensure full retention of the DCV				
Step 3a: Determine design infiltration rate				
1	Enter measured infiltration rate, $K_{observed}$[1] (in/hr) (**Appendix VII**)	$K_{observed}$=	5.3	In/hr
2	Enter combined safety factor from Worksheet H, S_{total} (unitless)	S_{total}=	3.0	
3	Calculate design infiltration rate, $K_{design} = K_{observed} / S_{total}$	K_{design}=	1.8	In/hr
Step 3b: Determine minimum BMP footprint				
4	Enter drawdown time, *T* (max 48 hours)	T=	24	Hours
5	Calculate max retention depth that can be drawn down within the drawdown time (feet), $D_{max} = K_{design} \times T \times (1/12)$	D_{max}=	3.6	feet
6	Calculate minimum area required for BMP (sq-ft), $A_{min} = V_{design} / d_{max}$	A_{min}=	763	sq-ft

[1] $K_{observed}$ is the vertical infiltration measured in the field, before applying a factor of safety. If field testing measures a rate that is different than the vertical infiltration rate (for example, three-dimensional borehole percolation rate), then this rate must be adjusted by an acceptable method (for example, Porchet method) to yield the field estimate of vertical infiltration rate, $K_{observed}$. See Appendix VII.

Worksheet H: Factor of Safety and Design Infiltration Rate and Worksheet

Factor Category		Factor Description	Assigned Weight (w)	Factor Value (v)	Product (p) p = w x v
A	Suitability Assessment	Soil assessment methods	0.25	2	0.5
		Predominant soil texture	0.25	2	0.5
		Site soil variability	0.25	1	0.25
		Depth to groundwater / impervious layer	0.25	1	0.25
		Suitability Assessment Safety Factor, $S_A = \Sigma p$			1.5
B	Design	Tributary area size	0.25	1	0.25
		Level of pretreatment/ expected sediment loads	0.25	1	0.25
		Redundancy	0.25	3	0.75
		Compaction during construction	0.25	1	0.25
		Design Safety Factor, $S_B = \Sigma p$			1.5
Combined Safety Factor, $S_{TOT} = S_A \times S_B$					3.0
Measured Infiltration Rate, inch/hr, K_M (corrected for test-specific bias)					5.3
Design Infiltration Rate, in/hr, $K_{DESIGN} = S_{TOT} \times K_M$					1.8

Supporting Data

Briefly describe infiltration test and provide reference to test forms:

TWO 8" DIAMETER INFILTRATION TEST HOLES WERE DRILLED AND TESTED BY THE GEOTECHNICAL ENGINEER (SEE GEOTECHNICAL REPORT FOR TEST DATA)

Note: The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

Worksheet 1: Infiltration Feasibility Categorization

Categorization of Infiltration Feasibility Condition			*Page 1 of 5*
Part 1: Physical Limitations of Infiltration Based on the criteria for physical limitations of infiltration described in Section 4.2.2.2, what level of physical feasibility of infiltration is the maximum that the BMP location will support?			
	Physical Infiltration Feasibility Category	**Mark applicable category**	**Next step**
1	Full Infiltration of the DCV	X	Continue to Part 2
	Biotreatment with Partial Infiltration		Continue to Part 3
	Biotreatment with No Infiltration		Select and Utilize Biotreatment without Infiltration
Provide summary of basis: Summarize findings of studies, provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			

Categorization of Infiltration Feasibility Condition		***Page 2 of 5***	
Part 2: Risks Limiting Full Infiltration of the DCV –*Would infiltration of the full DCV introduce risks of undesirable consequences that cannot reasonably be mitigated?*		***Yes***	***No***
2	**Would infiltration of the DCV pose significant risk for groundwater related concerns?** Use criteria described in Section 4.2.2.3 and results from **Worksheet 2** (Appendix C) to describe groundwater-related infiltration feasibility criteria.		X
Provide basis: Historic groundwater depth 40 feet. Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
3	**Would infiltration of the full DCV pose significant risk of increasing risk of geotechnical hazards that cannot be mitigated to an acceptable level**? Use criteria described in Section 4.2.2.4.		X
Provide basis: No associated risks with infiltration of stormwater for site. Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
4	Would infiltration of the DCV cause an increase in groundwater flow or decrease in surface runoff over predevelopment conditions that would cause **impairment to downstream beneficial uses, such as change of seasonality of ephemeral washes or increased discharge of contaminated groundwater to surface waters?** Use criteria in Section 4.2.2.5		X
Provide basis: Historic Groundwater is 40 feet, there are no adjacent streams. Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			

Categorization of Infiltration Feasibility Condition		*Page 3 of 5*	
***Part 2 (continued): Risks Limiting Full Infiltration of the DCV –** Would infiltration of the full DCV introduce risks of undesirable consequences that cannot reasonably be mitigated?*		***Yes***	***No***
5	Is there substantial evidence that infiltration of the DCV would **result in a significant increase in I&I to the sanitary sewer** that cannot be sufficiently mitigated?		X
Provide basis: The nearest sewer main is 350 feet north of the proposed underground infiltration basin. Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
6	Would infiltration of the DCV **violate downstream water rights**?		X
Provide basis: No water rights are associated with the property. Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
Part 2 Result	If the answer to all questions 2-6 are “No”, then the DMA is categorized as “Full Infiltration” for the purposes of LID BMP type selection. Describe finding. At the Preliminary/Conceptual WQMP phase, describe the additional design-phase testing required to confirm this determination and identify contingencies for final design. At the Final Project WQMP phase, identify any required construction-phase testing and identify the design contingencies that should result based on construction-phase testing. If the answer to any of questions 2-6 is “Yes” then the site cannot be categorized as “Full Infiltration”. Continue to Part 3: Partial Infiltration Feasibility	Full Infiltration – Infiltration testing included in geotechnical report.	

Categorization of Infiltration Feasibility Condition		***Page 4 of 5***	
Part 3: Partial Infiltration Feasibility Criteria –*Would infiltration of any appreciable volume of stormwater result in risks of undesirable consequences that cannot reasonably be mitigated?*		***Yes***	***No***
8	**Would use of biotreatment BMPs with partial infiltration pose significant risk for groundwater related concerns?** Refer to criteria in Section 4.2.2.3 and Worksheet 1 (Appendix C) for guidance on groundwater-related infiltration feasibility criteria.		
Provide basis: Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
9	**Would the use of biotreatment BMPs with partial infiltration pose elevated risks of geotechnical hazards that cannot be mitigated to an acceptable level**? Refer to Section 4.2.2.4.		
Provide basis: Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			
10	**Would the use of biotreatment BMPs with partial infiltration elevate risks or introduced conflicts related to groundwater balance, inflow and infiltration, or water rights?** Refer to Section 4.2.2.5. Note: this is uncommon and must be supported by site-specific analysis if it is used as a basis to reject biotreatment with partial infiltration.		
Provide basis: Summarize findings of studies provide reference to studies, calculations, maps, data sources, etc. Provide narrative discussion of study/data source applicability.			

Categorization of Infiltration Feasibility Condition		*Page 5 of 5*
Part 3 Result	If the answer to all questions 8-10 are “No”, then the DMA is categorized as “Biotreatment with Partial Infiltration” for the purposes of LID BMP type selection. If the answer to any of questions 8-10 is “Yes” then the site is categorized as “Biotreatment with No Infiltration” for the purposes of LID BMP type selection.	

STRAND ENGINEERING, INC.

Date:	06.20.2024		
Project Name:	ESS Santa Ana – 1030 E. 4th Street	Project #:	1047
Staff:	WFS	Project Mgr:	WFS
Subject:	**HCOC Calculations**		

HCOC Calculation

2-Yr (24 HR) Depth $d2 = 2.05"$ $(OCHM\ Table\ B.1)$
Drainage Area $A = 53{,}583\ sf = 1.23\ acres$

Existing Imperviousness 38,099/53,583 = 71%
Proposed Imperviousness $47{,}669/53{,}583 = 89\ \%$

Runoff Factor (Existing) $C = (0.75 * imp + 0.15) = 0.68$
Runoff Factor (Proposed) $C = (0.75 * imp + 0.15) = 0.82$

$V2 = C \times A \times d/12$

$V2(Exsiting) = 0.68 \times 1.23 \times 2.05/12 \times 43{,}560 = 6{,}224$ cf
$V2(Proposed) = 0.89 \times 1.23 \times 2.05/12 \times 43{,}560 = 8{,}146$ cf

V(Retention Basin) = 2,746 cf

V2(Proposed) – V(Retention Basin) = 8,146-2,746 = 5,400 cf <V2(Existing)

ATTACHMENT A
EDUCATIONAL MATERIALS

The Ocean Begins at Your Front Door

Follow these simple steps to help reduce water pollution:

Household Activities

- Do not rinse spills with water. Use dry cleanup methods such as applying cat litter or another absorbent material, sweep and dispose of in the trash. Take items such as used or excess batteries, oven cleaners, automotive fluids, painting products and cathode ray tubes, like TVs and computer monitors, to a Household Hazardous Waste Collection Center (HHWCC).
- For a HHWCC near you call (714) 834-6752 or visit www.oclandfills.com.
- Do not hose down your driveway, sidewalk or patio to the street, gutter or storm drain. Sweep up debris and dispose of it in the trash.

Automotive

- Take your vehicle to a commercial car wash whenever possible. If you wash your vehicle at home, choose soaps, cleaners, or detergents labeled non-toxic, phosphate- free or biodegradable. Vegetable and citrus-based products are typically safest for the environment.
- Do not allow washwater from vehicle washing to drain into the street, gutter or storm drain. Excess washwater should be disposed of in the sanitary sewer (through a sink or toilet) or onto an absorbent surface like your lawn.
- Monitor your vehicles for leaks and place a pan under leaks. Keep your vehicles well maintained to stop and prevent leaks.
- Never pour oil or antifreeze in the street, gutter or storm drain. Recycle these substances at a service station, a waste oil collection center or used oil recycling center. For the nearest Used Oil Collection Center call 1-800-CLEANUP or visit www.1800cleanup.org.

Pool Maintenance

- Pool and spa water must be dechlorinated and free of excess acid, alkali or color to be allowed in the street, gutter or storm drain.
- When it is not raining, drain dechlorinated pool and spa water directly into the sanitary sewer.
- Some cities may have ordinances that do not allow pool water to be disposed of in the storm drain. Check with your city.

Landscape and Gardening

- Do not over-water. Water your lawn and garden by hand to control the amount of water you use or set irrigation systems to reflect seasonal water needs. If water flows off your yard onto your driveway or sidewalk, your system is over-watering. Periodically inspect and fix leaks and misdirected sprinklers.
- Do not rake or blow leaves, clippings or pruning waste into the street, gutter or storm drain. Instead, dispose of waste by composting, hauling it to a permitted landfill, or as green waste through your city's recycling program.
- Follow directions on pesticides and fertilizer, (measure, do not estimate amounts) and do not use if rain is predicted within 48 hours.
- Take unwanted pesticides to a HHWCC to be recycled. For locations and hours of HHWCC, call (714) 834-6752 or visit www.oclandfills.com.

Trash

- Place trash and litter that cannot be recycled in securely covered trash cans.
- Whenever possible, buy recycled products.
- Remember: Reduce, Reuse, Recycle.

Pet Care

- Always pick up after your pet. Flush waste down the toilet or dispose of it in the trash. Pet waste, if left outdoors, can wash into the street, gutter or storm drain.
- If possible, bathe your pets indoors. If you must bathe your pet outside, wash it on your lawn or another absorbent/permeable surface to keep the washwater from entering the street, gutter or storm drain.
- Follow directions for use of pet care products and dispose of any unused products at a HHWCC.

Common Pollutants

Home Maintenance

- Detergents, cleaners and solvents
- Oil and latex paint
- Swimming pool chemicals
- Outdoor trash and litter

Lawn and Garden

- Pet and animal waste
- Pesticides
- Clippings, leaves and soil
- Fertilizer

Automobile

- Oil and grease
- Radiator fluids and antifreeze
- Cleaning chemicals
- Brake pad dust

The Ocean Begins at Your Front Door

Never allow pollutants to enter the street, gutter or storm drain!

Did You Know?

- Most people believe that the largest source of water pollution in urban areas comes from specific sources such as factories and sewage treatment plants. In fact, the largest source of water pollution comes from city streets, neighborhoods, construction sites and parking lots. This type of pollution is sometimes called “non-point source” pollution.
- There are two types of non-point source pollution: stormwater and urban runoff pollution.
- Stormwater runoff results from rainfall. When rainstorms cause large volumes of water to rinse the urban landscape, picking up pollutants along the way.
- Urban runoff can happen any time of the year when excessive water use from irrigation, vehicle washing and other sources carries trash, lawn clippings and other urban pollutants into storm drains.

Where Does It Go?

- Anything we use outside homes, vehicles and businesses – like motor oil, paint, pesticides, fertilizers and cleaners – can be blown or washed into storm drains.
- A little water from a garden hose or rain can also send materials into storm drains.
- Storm drains are separate from our sanitary sewer systems; unlike water in sanitary sewers (from sinks or toilets), water in storm drains is not treated before entering our waterways.

Sources of Non-Point Source Pollution

- Automotive leaks and spills.
- Improper disposal of used oil and other engine fluids.
- Metals found in vehicle exhaust, weathered paint, rust, metal plating and tires.
- Pesticides and fertilizers from lawns, gardens and farms.
- Improper disposal of cleaners, paint and paint removers.
- Soil erosion and dust debris from landscape and construction activities.
- Litter, lawn clippings, animal waste, and other organic matter.
- Oil stains on parking lots and paved surfaces.

The Effect on the Ocean

Non-point source pollution can have a serious impact on water quality in Orange County. Pollutants from the storm drain system can harm marine life as well as coastal and wetland habitats. They can also degrade recreation areas such as beaches, harbors and bays.

Stormwater quality management programs have been developed throughout Orange County to educate and encourage the public to protect water quality, monitor runoff in the storm drain system, investigate illegal dumping and maintain storm drains.

Support from Orange County residents and businesses is needed to improve water quality and reduce urban runoff pollution. Proper use and disposal of materials will help stop pollution before it reaches the storm drain and the ocean.

For More Information

California Environmental Protection Agency
www.calepa.ca.gov

- **Air Resources Board**
  www.arb.ca.gov
- **Department of Pesticide Regulation**
  www.cdpr.ca.gov
- **Department of Toxic Substances Control**
  www.dtsc.ca.gov
- **Integrated Waste Management Board**
  www.ciwmb.ca.gov
- **Office of Environmental Health Hazard Assessment**
  www.oehha.ca.gov
- **State Water Resources Control Board**
  www.waterboards.ca.gov

Earth 911 - Community-Specific Environmental Information 1-800-cleanup or visit www.1800cleanup.org

Health Care Agency's Ocean and Bay Water Closure and Posting Hotline
(714) 433-6400 or visit www.ocbeachinfo.com

Integrated Waste Management Dept. of Orange County (714) 834-6752 or visit www.oclandfills.com for information on household hazardous waste collection centers, recycling centers and solid waste collection

O.C. Agriculture Commissioner
(714) 447-7100 or visit www.ocagcomm.com

Stormwater Best Management Practice Handbook
Visit www.cabmphandbooks.com

UC Master Gardener Hotline
(714) 708-1646 or visit www.uccemg.com

The Orange County Stormwater Program has created and moderates an electronic mailing list to facilitate communications, take questions and exchange ideas among its users about issues and topics related to stormwater and urban runoff and the implementation of program elements. To join the list, please send an email to ocstormwaterinfo-join@list.ocwatersheds.com

Orange County Stormwater Program

Aliso Viejo	(949)	425-2535
Anaheim Public Works Operations	(714)	765-6860
Brea Engineering	(714)	990-7666
Buena Park Public Works	(714)	562-3655
Costa Mesa Public Services	(714)	754-5323
Cypress Public Works	(714)	229-6740
Dana Point Public Works	(949)	248-3584
Fountain Valley Public Works	(714)	593-4441
Fullerton Engineering Dept.	(714)	738-6853
Garden Grove Public Works	(714)	741-5956
Huntington Beach Public Works	(714)	536-5431
Irvine Public Works	(949)	724-6315
La Habra Public Services	(562)	905-9792
La Palma Public Works	(714)	690-3310
Laguna Beach Water Quality	(949)	497-0378
Laguna Hills Public Services	(949)	707-2650
Laguna Niguel Public Works	(949)	362-4337
Laguna Woods Public Works	(949)	639-0500
Lake Forest Public Works	(949)	461-3480
Los Alamitos Community Dev.	(562)	431-3538
Mission Viejo Public Works	(949)	470-3056
Newport Beach, Code & Water Quality Enforcement	(949)	644-3215
Orange Public Works	(714)	532-6480
Placentia Public Works	(714)	993-8245
Rancho Santa Margarita	(949)	635-1800
San Clemente Environmental Programs	(949)	361-6143
San Juan Capistrano Engineering	(949)	234-4413
Santa Ana Public Works	(714)	647-3380
Seal Beach Engineering	(562)	431-2527 x317
Stanton Public Works	(714)	379-9222 x204
Tustin Public Works/Engineering	(714)	573-3150
Villa Park Engineering	(714)	998-1500
Westminster Public Works/Engineering	(714)	898-3311 x446
Yorba Linda Engineering	(714)	961-7138
Orange County Stormwater Program	(877)	897-7455

Orange County 24-Hour
Water Pollution Problem Reporting Hotline
1-877-89-SPILL (1-877-897-7455)

On-line Water Pollution Problem Reporting Form

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Clean beaches and healthy creeks, rivers, bays and ocean are important to Orange County. However, many common activities such as pest control can lead to water pollution if you're not careful. Pesticide treatments must be planned and applied properly to ensure that pesticides do not enter the street, gutter or storm drain. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never dump pesticides into the ocean, so don't let it enter the storm drains. Pesticides can cause significant damage to our environment if used improperly. If you are thinking of using a pesticide to control a pest, there are some important things to consider.

For more information,
please call
University of California Cooperative
Extension Master Gardeners at
(714) 708-1646
or visit these Web sites:
www.uccemg.org
www.ipm.ucdavis.edu

For instructions on collecting a specimen sample visit the Orange County Agriculture Commissioner's website at:
http://www.ocagcomm.com/ser_lab.asp

To report a spill, call the
Orange County 24-Hour
Water Pollution Problem
Reporting Hotline
at 1-877-89-SPILL (1-877-897-7455).

For emergencies, dial 911.

Information From:
Cheryl Wilen, Area IPM Advisor; Darren Haver, Watershed Management Advisor; Mary Louise Flint, IPM Education and Publication Director; Pamela M. Geisel, Environmental Horticulture Advisor; Carolyn L. Unruh, University of California Cooperative Extension staff writer. Photos courtesy of the UC Statewide IPM Program and Darren Haver.

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Help Prevent Ocean Pollution:

Responsible Pest Control

Tips for Pest Control

Key Steps to Follow:

Step 1: Correctly identify the pest (insect, weed, rodent, or disease) and verify that it is actually causing the problem.

Three life stages of the common lady beetle, a beneficial insect.

This is important because beneficial insects are often mistaken for pests and sprayed with pesticides needlessly.

Consult with a Certified Nursery Professional at a local nursery or garden center or send a sample of the pest to the Orange County Agricultural Commissioner's Office.

Determine if the pest is still present – even though you see damage, the pest may have left.

Step 2: Determine how many pests are present and causing damage.

Small pest populations may be controlled more safely using non-pesticide techniques. These include removing food sources, washing off leaves with a strong stream of water, blocking entry into the home using caulking and replacing problem plants with ones less susceptible to pests.

Integrated Pest Management (IPM) usually combines several least toxic pest control methods for long-term prevention and management of pest problems without harming you, your family, or the environment.

Step 3: If a pesticide must be used, choose the least toxic chemical.

Obtain information on the least toxic pesticides that are effective at controlling the target pest from the UC Statewide Integrated Pest Management (IPM) Program's Web site at www.ipm.ucdavis.edu.

Seek out the assistance of a Certified Nursery Professional at a local nursery or garden center when selecting a pesticide. Purchase the smallest amount of pesticide available.

Apply the pesticide to the pest during its most vulnerable life stage. This information can be found on the pesticide label.

Step 4: Wear appropriate protective clothing.

Follow pesticide labels regarding specific types of protective equipment you should wear. Protective clothing should always be washed separately from other clothing.

Step 5: Continuously monitor external conditions when applying pesticides such as weather, irrigation, and the presence of children and animals.

Never apply pesticides when rain is predicted within the next 48 hours. Also, do not water after applying pesticides unless the directions say it is necessary.

Apply pesticides when the air is still; breezy conditions may cause the spray or dust to drift away from your targeted area.

In case of an emergency call 911 and/or the regional poison control number at (714) 634-5988 or (800) 544-4404 (CA only).

For general questions you may also visit www.calpoison.org.

Step 6: In the event of accidental spills, sweep up or use an absorbent agent to remove any excess pesticides. Avoid the use of water.

Be prepared. Have a broom, dust pan, or dry absorbent material, such as cat litter, newspapers or paper towels, ready to assist in cleaning up spills.

Contain and clean up the spill right away. Place contaminated materials in a doubled plastic bag. All materials used to clean up the spill should be properly disposed of according to your local Household Hazardous Waste Disposal site.

Step 7: Properly store and dispose of unused pesticides.

Purchase Ready-To-Use (RTU) products to avoid storing large concentrated quantities of pesticides.

Store unused chemicals in a locked cabinet.

Unused pesticide chemicals may be disposed of at a Household Hazardous Waste Collection Center.

Empty pesticide containers should be triple rinsed prior to disposing of them in the trash.

Household Hazardous Waste Collection Center
(714) 834-6752
www.oclandfills.com

PROJECT Pollution PREVENTION

Sewage Spill Regulatory Requirements

Allowing sewage to discharge to a gutter or storm drain may subject you to penalties and/or out-of-pocket costs to reimburse cities or public agencies for clean-up efforts.

Here are the pertinent codes, fines, and agency contact information that apply.

Orange County Stormwater Program

24 Hour Water Pollution Reporting Hotline

1-877-89-SPILL (1-877-897-7455)

- County and city water quality ordinances prohibit discharges containing pollutants.

Orange County Health Care Agency Environmental Health

(714) 433-6419

California Health and Safety Code, Sections 5410-5416

- No person shall discharge raw or treated sewage or other waste in a manner that results in contamination, pollution or a nuisance.
- Any person who causes or permits a sewage discharge to any state waters:
  - must immediately notify the local health agency of the discharge.
  - shall reimburse the local health agency for services that protect the public's health and safety (water-contact receiving waters).
  - who fails to provide the required notice to the local health agency is guilty of a misdemeanor and shall be punished by a fine (between $500–$1,000) and/or imprisonment for less than one year.

Regional Water Quality Control Board

Santa Ana Region (951) 782-4130

San Diego Region (858) 467-2952

- Requires the prevention, mitigation, response to and reporting of sewage spills.

California Office of Emergency Services

(800) 852-7550

California Water Code, Article 4, Chapter 4, Sections 13268-13271
California Code of Regulations, Title 23, Division 3, Chapter 9.2, Article 2, Sections 2250-2260

- Any person who causes or permits sewage in excess of 1,000 gallons to be discharged to state waters **shall immediately notify the Office of Emergency Services.**
- Any person who fails to provide the notice required by this section is **guilty of a misdemeanor** and shall be punished by a fine (less than $20,000) and/or imprisonment for not more than one year.

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Sewage Spill

Reference Guide

Your Responsibilities as a Private Property Owner

Residences
Businesses
Homeowner/Condominium Associations
Federal and State Complexes
Military Facilities

Orange County Sanitation District

Health Care Agency
Environmental Health

PROJECT Pollution PREVENTION

www.ocwatersheds.com

This brochure was designed courtesy of the Orange County Sanitation District (OCSD).
For additional information, call (714) 962-2411, or visit their website at www.ocsd.com

What is a Sewage Spill?

Sewage spills occur when the wastewater being transported via underground pipes overflows through a manhole, cleanout or broken pipe. Sewage spills can cause health hazards, damage to homes and businesses, and threaten the environment, local waterways and beaches.

Common Causes of Sewage Spills

Grease builds up inside and eventually blocks sewer pipes. Grease gets into the sewer from food establishments, household drains, as well as from poorly maintained commercial grease traps and interceptors.

Structure problems caused by tree roots in the lines, broken/cracked pipes, missing or broken cleanout caps or undersized sewers can cause blockages.

Infiltration and inflow (I/I) impacts pipe capacity and is caused when groundwater or rainwater enters the sewer system through pipe defects and illegal connections.

You Are Responsible for a Sewage Spill Caused by a Blockage or Break in Your Sewer Lines!

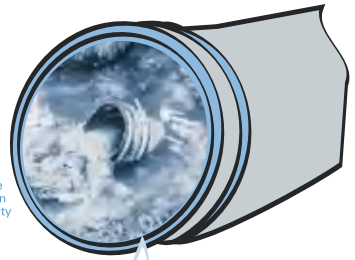
Time is of the essence in dealing with sewage spills. You are required to **immediately**:

Control and minimize the spill. Keep spills contained on private property and out of gutters, storm drains and public waterways by shutting off or not using the water.

Use sandbags, dirt and/or plastic sheeting to prevent sewage from entering the storm drain system.

Clear the sewer blockage. Always wear gloves and wash your hands. It is recommended that a plumbing professional be called for clearing blockages and making necessary repairs.

Always notify your city sewer/public works department or public sewer district of sewage spills. If the spill enters the storm drains also notify the Health Care Agency. In addition, if it exceeds 1,000 gallons notify the Office of Emergency Services. Refer to the numbers listed in this brochure.



Overflowing cleanout pipe located on private property

You Could Be Liable

Allowing sewage from your home, business or property to discharge to a gutter or storm drain may subject you to penalties and/or out-of-pocket costs to reimburse cities or public agencies for clean-up and enforcement efforts. See Regulatory Codes & Fines section for pertinent codes and fines that apply.

What to Look For

Sewage spills can be a very noticeable gushing of water from a manhole or a slow water leak that may take time to be noticed. Don't dismiss unaccounted-for wet areas.

Look for:

- Drain backups inside the building.
- Wet ground and water leaking around manhole lids onto your street.
- Leaking water from cleanouts or outside drains.
- Unusual odorous wet areas: sidewalks, external walls or ground/landscape around a building.

Caution

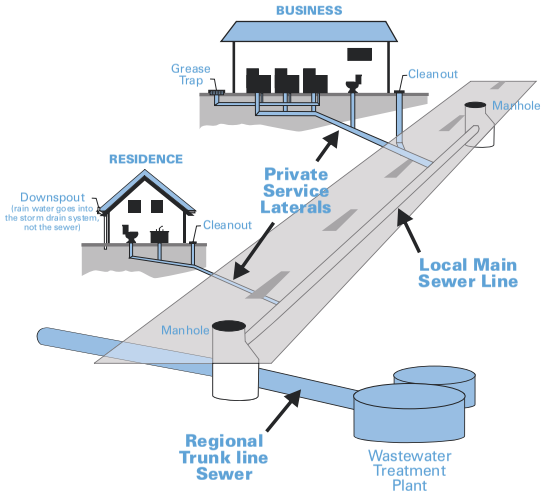
Keep people and pets away from the affected area. Untreated sewage has high levels of disease-causing viruses and bacteria. Call your local health care agency listed on the back for more information.

If You See a Sewage Spill Occurring, Notify Your City Sewer/Public Works Department or Public Sewer District IMMEDIATELY!

How a Sewer System Works

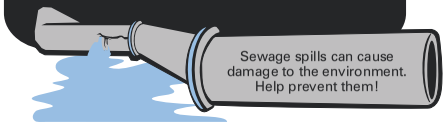
A property owner's sewer pipes are called service laterals and are connected to larger local main and regional trunk lines. Service laterals run from the connection at the home to the connection with the public sewer (including the area under the street). These laterals are the responsibility of the property owner and must be maintained by the property owner. Many city agencies have adopted ordinances requiring maintenance of service laterals. Check with your city sewer/local public works department for more information.

Operation and maintenance of **local and regional sewer lines** are the responsibility of the city sewer/public works departments and public sewer districts.



How You Can Prevent Sewage Spills

1. **Never put grease down garbage disposals, drains or toilets.**
2. **Perform periodic cleaning to eliminate grease, debris and roots in your service laterals.**
3. **Repair any structural problems in your sewer system and eliminate any rainwater infiltration/inflow leaks into your service laterals.**



Preventing Grease Blockages

The drain is not a dump! Recycle or dispose of grease properly and never pour grease down the drain.

Homeowners should mix fats, oils and grease with absorbent waste materials such as paper, coffee grounds, or kitty litter and place it in the trash. Wipe food scraps from plates and pans and dump them in the trash.

Restaurants and commercial food service establishments should always use "Kitchen Best Management Practices." These include:

- Collecting all cooking grease and liquid oil from pots, pans and fryers in covered grease containers for recycling.
- Scraping or dry-wiping excess food and grease from dishes, pots, pans and fryers into the trash.
- Installing drain screens on all kitchen drains.
- Having spill kits readily available for cleaning up spills.
- Properly maintaining grease traps or interceptors by having them serviced regularly. Check your local city codes.

Orange County Agency Responsibilites

- **City Sewer/Public Works Departments—** Responsible for protecting city property and streets, the local storm drain system, sewage collection system and other public areas.
- **Public Sewer/Sanitation District—** Responsible for collecting, treating and disposing of wastewater.
- **County of Orange Health Care Agency—** Responsible for protecting public health by closing ocean/bay waters and may close food-service businesses if a spill poses a threat to public health.
- **Regional Water Quality Control Boards—** Responsible for protecting State waters.
- **Orange County Stormwater Program—** Responsible for preventing harmful pollutants from being discharged or washed by stormwater runoff into the municipal storm drain system, creeks, bays and the ocean.

You Could Be Liable for Not Protecting the Environment

Local and state agencies have legal jurisdiction and enforcement authority to ensure that sewage spills are remedied.

They may respond and assist with containment, relieving pipe blockages, and/or clean-up of the sewage spill, especially if the spill is flowing into storm drains or onto public property.

A property owner may be charged for costs incurred by these agencies responding to spills from private properties.

Report Sewage Spills!

City Sewer/Public Works Departments

Aliso Viejo	(949) 425-2500
Anaheim	(714) 765-6860
Brea	(714) 990-7691
Buena Park	(714) 562-3655
Costa Mesa	(949) 645-8400
Cypress	(714) 229-6760
Dana Point	(949) 248-3562
Fountain Valley	(714) 593-4600
Fullerton	(714) 738-6897
Garden Grove	(714) 741-5375
Huntington Beach	(714) 536-5921
Irvine	(949) 453-5300
Laguna Beach	(949) 497-0765
Laguna Hills	(949) 707-2650
Laguna Niguel	(949) 362-4337
Laguna Woods	(949) 639-0500
La Habra	(562) 905-9792
Lake Forest	(949) 461-3480
La Palma	(714) 690-3310
Los Alamitos	(562) 431-3538
Mission Viejo	(949) 831-2500
Newport Beach	(949) 644-3011
Orange	(714) 532-6480
Orange County	(714) 567-6363
Placentia	(714) 993-8245
Rancho Santa Margarita	(949) 635-1800
San Clemente	(949) 366-1553
San Juan Capistrano	(949) 443-6363
Santa Ana	(714) 647-3380
Seal Beach	(562) 431-2527
Stanton	(714) 379-9222
Tustin	(714) 962-2411
Villa Park	(714) 998-1500
Westminster	(714) 893-3553
Yorba Linda	(714) 961-7170

Public Sewer/Water Districts

Costa Mesa Sanitary District	(714) 393-4433/ (949) 645-8400
El Toro Water District	(949) 837-0660
Emerald Bay Service District	(949) 494-8571
Garden Grove Sanitary District	(714) 741-5375
Irvine Ranch Water District	(949) 453-5300
Los Alamitos/Rossmoor Sewer District	(562) 431-2223
Midway City Sanitary District (Westminster)	(714) 893-3553
Moulton Niguel Water District	(949) 831-2500
Orange County Sanitation District	(714) 962-2411
Santa Margarita Water District	(949) 459-6420
South Coast Water District	(949) 499-4555
South Orange County Wastewater Authority	(949) 234-5400
Sunset Beach Sanitary District	(562) 493-9932
Trabuco Canyon Sanitary District	(949) 858-0277
Yorba Linda Water District	(714) 777-3018

Other Agencies

Orange County Health Care Agency	(714) 433-6419
Office of Emergency Services	(800) 852-7550

Clean beaches and healthy creeks, rivers, bays and ocean are important to Orange County. However, many common activities can lead to water pollution if you're not careful. Fertilizers, pesticides and other chemicals that are left on yards or driveways can be blown or washed into storm drains that flow to the ocean. Overwatering lawns can also send materials into storm drains. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never pour gardening products into the ocean, so don't let them enter the storm drains. Follow these easy tips to help prevent water pollution.

For more information,
please call the
Orange County Stormwater Program
at **1-877-89-SPILL** (1-877-897-7455)
or visit
www.ocwatersheds.com

UCCE Master Gardener Hotline:
(714) 708-1646

To report a spill,
call the
Orange County 24-Hour
Water Pollution Problem
Reporting Hotline
1-877-89-SPILL (1-877-897-7455).

For emergencies, dial 911.

The tips contained in this brochure provide useful information to help prevent water pollution while landscaping or gardening. If you have other suggestions, please contact your city's stormwater representatives or call the Orange County Stormwater Program.

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Help Prevent Ocean Pollution:

Tips for Landscape & Gardening

Tips for Landscape & Gardening

Never allow gardening products or polluted water to enter the street, gutter or storm drain.

General Landscaping Tips

- Protect stockpiles and materials from wind and rain by storing them under tarps or secured plastic sheeting.
- Prevent erosion of slopes by planting fast-growing, dense ground covering plants. These will shield and bind the soil.
- Plant native vegetation to reduce the amount of water, fertilizers, and pesticide applied to the landscape.

- Never apply pesticides or fertilizers when rain is predicted within the next 48 hours.

Garden & Lawn Maintenance

- Do not overwater. Use irrigation practices such as drip irrigation, soaker hoses or micro spray systems. Periodically inspect and fix leaks and misdirected sprinklers.
- Do not rake or blow leaves, clippings or pruning waste into the street, gutter or storm drain. Instead, dispose of green waste by composting, hauling it to a permitted landfill, or recycling it through your city's program.

- Use slow-release fertilizers to minimize leaching, and use organic fertilizers.
- Read labels and use only as directed. Do not over-apply pesticides or fertilizers. Apply to spots as needed, rather than blanketing an entire area.
- Store pesticides, fertilizers and other chemicals in a dry covered area to prevent exposure that may result in the deterioration of containers and packaging.

- Rinse empty pesticide containers and re-use rinse water as you would use the product. Do not dump rinse water down storm drains. Dispose of empty containers in the trash.
- When available, use non-toxic alternatives to traditional pesticides, and use pesticides specifically designed to control the pest you are targeting. For more information, visit **www.ipm.ucdavis.edu**.
- If fertilizer is spilled, sweep up the spill before irrigating. If the spill is liquid, apply an absorbent material such as cat litter, and then sweep it up and dispose of it in the trash.
- Take unwanted pesticides to a Household Hazardous Waste Collection Center to be recycled. Locations are provided below.

Household Hazardous Waste Collection Centers

Anaheim:	1071 N. Blue Gum St.
Huntington Beach:	17121 Nichols St.
Irvine:	6411 Oak Canyon
San Juan Capistrano:	32250 La Pata Ave.

For more information, call (714) 834-6752 or visit www.oclandfills.com

Clean beaches and healthy creeks, rivers, bays, and ocean are important to Orange County. However, many common activities can lead to water pollution if you're not careful. Materials and excess concrete or mortar can be blown or washed into the storm drains that flow to the ocean. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never throw building materials into the ocean, so don't let them enter the storm drains. Follow these easy tips to help prevent water pollution.

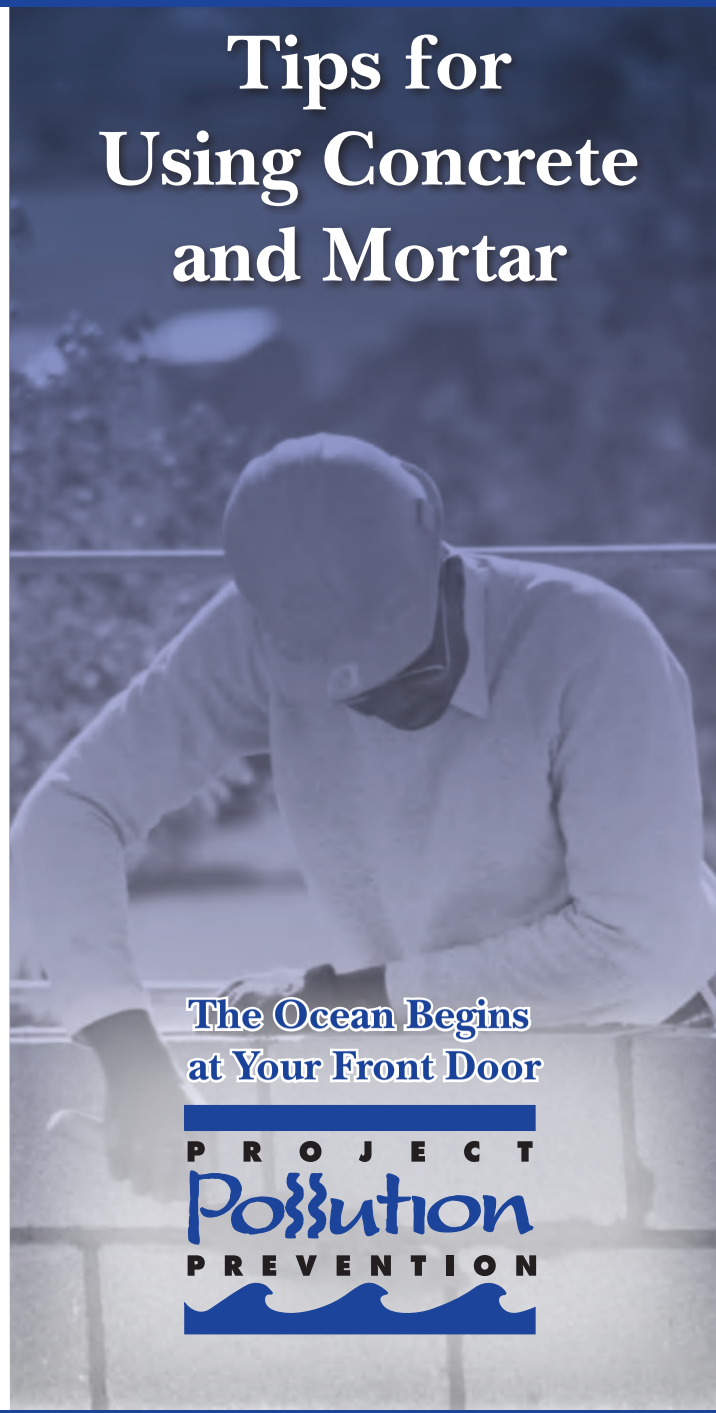
For more information, please call the **Orange County Stormwater Program** at **1-877-89-SPILL** (1-877-897-7455) or visit **www.ocwatersheds.com.**

To report a spill, call the **Orange County 24-Hour Water Pollution Reporting Hotline** at **1-877-89-SPILL** (1-877-897-7455).

For emergencies, dial 911.

The Tips contained in this brochure provide useful information about how you can keep materials and washwater from entering the storm drain system. If you have other suggestions for how water and materials may be contained, please contact your city's stormwater representative or call the Orange County Stormwater Program.

Tips for Using Concrete and Mortar



The Ocean Begins at Your Front Door

PROJECT Pollution PREVENTION

Tips for Using Concrete and Mortar

Never allow materials or washwater to enter the street or storm drain.

Before the Project

- Schedule projects for dry weather.
- Store materials under cover, with temporary roofs or plastic sheets, to eliminate or reduce the possibility that the materials can be carried from the project site to streets, storm drains or adjacent properties via rainfall, runoff or wind.
- Minimize waste by ordering only the amount of materials needed to complete the job.
- Take measures to block nearby storm drain inlets.

During the Project

- Set up and operate small mixers on tarps or heavy drop cloths.
- Do not mix more fresh concrete or cement than is needed for the job.

- When breaking up pavement, pick up all chunks and pieces and recycle them at a local construction and demolition recycling company. (See information to the right)
- When making saw cuts in pavement, protect nearby storm drain inlets during the saw-cutting operation and contain the slurry. Collect the slurry residue from the pavement or gutter and remove from the site.

Clean-Up

- Dispose of small amounts of dry concrete, grout or mortar in the trash.
- Never hose materials from exposed aggregate concrete, asphalt or similar treatments into a street, gutter, parking lot, or storm drain.
- Wash concrete mixers and equipment in designated washout areas where the water can flow into a containment area or onto dirt. Small amounts of dried material can be disposed of in the trash. Large amounts should be recycled at a local construction and demolition recycling company. (See information below)

- Recycle cement wash water by pumping it back into cement mixers for reuse.

Spills

- Never hose down pavement or impermeable surfaces where fluids have spilled. Use an absorbent material such as cat litter to soak up a spill, then sweep and dispose in the trash.
- Clean spills on dirt areas by digging up and properly disposing of contaminated dry soil in trash.
- Immediately report significant spills to the County's 24-Hour Water Pollution Problem Reporting Hotline at 714-567-6363 or log onto the County's website at www.ocwatersheds.com and fill out an incident reporting form.

For a list of construction and demolition recycling locations in your area visit www.ciwmb.ca.gov/Recycle/.

For additional information on how to control, prevent, remove, and reduce pollution refer to the Stormwater Best Management Practice Handbook, available on-line at www.cabmphandbooks.com.

Preventing water pollution at your commercial/industrial site

Clean beaches and healthy creeks, rivers, bays and ocean are important to Orange County. However, many landscape and building maintenance activities can lead to water pollution if you're not careful. Paint, chemicals, plant clippings and other materials can be blown or washed into storm drains that flow to the ocean. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never pour soap or fertilizers into the ocean, so why would you let them enter the storm drains? Follow these easy tips to help prevent water pollution.

Some types of industrial facilities are required to obtain coverage under the State General Industrial Permit. For more information visit: **www.swrcb.ca.gov/stormwater/industrial.html**

For more information, please call the **Orange County Stormwater Program** at **1-877-89-SPILL** (1-877-897-7455) or visit **www.ocwatersheds.com**

To report a spill, call the **Orange County 24-Hour Water Pollution Problem Reporting Hotline** at **1-877-89-SPILL** (1-877-897-7455).

For emergencies, dial 911.

RECYCLE USED OIL

Printed on Recycled Paper

Help Prevent Ocean Pollution:

Proper Maintenance Practices for Your Business

The Ocean Begins at Your Front Door

PROJECT Pollution PREVENTION

Proper Maintenance Practices for your Business

Landscape Maintenance

- Compost grass clippings, leaves, sticks and other vegetation, or dispose of it at a permitted landfill or in green waste containers. Do not dispose of these materials in the street, gutter or storm drain.
- Irrigate slowly and inspect the system for leaks, overspraying and runoff. Adjust automatic timers to avoid overwatering.
- Follow label directions for the use and disposal of fertilizers and pesticides.
- Do not apply pesticides or fertilizers if rain is expected within 48 hours or if wind speeds are above 5 mph.
- Do not spray pesticides within 100 feet of waterways.
- Fertilizers should be worked into the soil rather than dumped onto the surface.
- If fertilizer is spilled on the pavement or sidewalk, sweep it up immediately and place it back in the container.

Building Maintenance

- Never allow washwater, sweepings or sediment to enter the storm drain.
- Sweep up dry spills and use cat litter, towels or similar materials to absorb wet spills. Dispose of it in the trash.
- If you wash your building, sidewalk or parking lot, you **must** contain the water. Use a shop vac to collect the water and contact your city or sanitation agency for proper disposal information. Do not let water enter the street, gutter or storm drain.
- Use drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of materials in the trash.
- Use a ground cloth or oversized tub for mixing paint and cleaning tools.
- Use a damp mop or broom to clean floors.
- Cover dumpsters to keep insects, animals, rainwater and sand from entering. Keep the area around the dumpster clear of trash and debris. Do not overfill the dumpster.
- Call your trash hauler to replace leaking dumpsters.
- Do not dump any toxic substance or liquid waste on the pavement, the ground, or near a storm drain. Even materials that seem harmless such as latex paint or biodegradable cleaners can damage the environment.

NEVER DISPOSE OF ANYTHING IN THE STORM DRAIN.

- Recycle paints, solvents and other materials. For more information about recycling and collection centers, visit **www.oclandfills.com**.
- Store materials indoors or under cover and away from storm drains.
- Use a construction and demolition recycling company to recycle lumber, paper, cardboard, metals, masonry, carpet, plastic, pipes, drywall, rocks, dirt, and green waste. For a listing of construction and demolition recycling locations in your area, visit **www.ciwmb.ca.gov/recycle.**
- Properly label materials. Familiarize employees with Material Safety Data Sheets.

PROJECT Pollution PREVENTION

Inspection and maintenance records shall be kept for a minimum of five years and be made available for inspection by the City staff.

BMP Inspection/Maintenance			
BMP	**Reponsible Party(s)**	**Inspection/ Maintenance Activities Required**	**Minimum Frequency of Activities**
N1 Education for Property Owners, Tenants and Occupants	Owner	To educate employees on stormwater pollution.	Ongoing
N3 Common Area Landscape Management	Owner	Clear of trash, debris, and any accumulated sediment.	Weekly
N4 BMP Maintenance	Owner	See BMP maintenance at the end of this table.	Ongoing
N11 Common Area Litter Control	Owner	Clear of trash and debris.	Daily
N12 Employee Training	Owner	To educate employees on stormwater pollution.	Annually and within 2 weeks of being hired.
N14 Common Area Catch Basin Inspection	Owner	Clear of trash, debris, and any accumulated sediment.	Minimum of once a year prior to rainy season

N15 Street Sweeping Private Streets and Parking Lots	Owner	Drive aisles and parking areas will be swept clean every two weeks and once within five days prior to Oct 15th. It is prohibited for street sweepers to sweep debris into storm drain inlets.	Bi-weekly

BMP Inspection/Maintenance			
BMP	**Reponsible Party(s)**	**Inspection/ Maintenance Activities Required**	**Minimum Frequency of Activities**
S1 Provide storm drain system stencilling and signage	Owner	Visual inspection and replace or repaint as necessary.	Annually
S3 Design and construct trash an waste storage areas to reduce pollution introduction	Owner	Trash storage areas are covered and enclosed to prevent introduction of trash and debris to site runoff.	Ongoing
S4 Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control	Owner	The irrigation system will include devices to prevent low head drainage, overspray and run-off through the use of pressure regulating devices, check valves, flow sensors, proper spacing, low precipitation emission devices and ET or weather based controllers.	Inspect monthly and maintained as needed
INF-7 Underground Retention Basin: StormTech MC-3500	Owner	The StormTech MC-3500 system shall be maintained in accordance with manufacturer's specifications. The system shall be inspected at a	Inspected twice per year and maintained as needed

		minimum of once every six months, prior to the start of the rainy season (October 1) each year, and after major storm events.	
PRE-2 Contech CDS 2015-4-C	Owner	The Contech CDS 2015-4-C unit shall be maintained in accordance with manufacturer's specifications. The system shall be inspected at a minimum of once every six months, prior to the start of the rainy season (October 1) each year, and after major storm events.	Inspected twice per year and maintained as needed

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CDS® Inspection and Maintenance Guide

CDS TECHNOLOGIES

Maintenance

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (e.g. spring and fall) however more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment washdown areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

The visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen. The inspection should also quantify the accumulation of hydrocarbons, trash, and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided.

Access to the CDS unit is typically achieved through two manhole access covers. One opening allows for inspection and cleanout of the separation chamber (cylinder and screen) and isolated sump. The other allows for inspection and cleanout of sediment captured and retained outside the screen. For deep units, a single manhole access point would allows both sump cleanout and access outside the screen.

The CDS system should be cleaned when the level of sediment has reached 75% of capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated. If absorbent material is used, it should be replaced when significant discoloration has occurred. Performance will not be impacted until 100% of the sump capacity is exceeded however it is recommended that the system be cleaned prior to that for easier removal of sediment. The level of sediment is easily determined by measuring from finished grade down to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Particles at the top of the pile typically offer less resistance to the end of the rod than consolidated particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the as-built drawing for the unit to determine weather the height of the sediment pile off the bottom of the sump floor exceeds 75% of the total height of isolated sump.

Cleaning

Cleaning of a CDS systems should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The area outside the screen should also be cleaned out if pollutant build-up exists in this area.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. The screen should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure that proper safety precautions have been followed. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the CDS system should be done in accordance with local regulations. In many jurisdictions, disposal of the sediments may be handled in the same manner as the disposal of sediments removed from catch basins or deep sump manholes.

CDS Model	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	y^3	m^3
CDS1515	3	0.9	3.0	0.9	0.5	0.4
CDS2015	4	1.2	3.0	0.9	0.9	0.7
CDS2015	5	1.3	3.0	0.9	1.3	1.0
CDS2020	5	1.3	3.5	1.1	1.3	1.0
CDS2025	5	1.3	4.0	1.2	1.3	1.0
CDS3020	6	1.8	4.0	1.2	2.1	1.6
CDS3025	6	1.8	4.0	1.2	2.1	1.6
CDS3030	6	1.8	4.6	1.4	2.1	1.6
CDS3035	6	1.8	5.0	1.5	2.1	1.6
CDS4030	8	2.4	4.6	1.4	5.6	4.3
CDS4040	8	2.4	5.7	1.7	5.6	4.3
CDS4045	8	2.4	6.2	1.9	5.6	4.3
CDS5640	10	3.0	6.3	1.9	8.7	6.7
CDS5653	10	3.0	7.7	2.3	8.7	6.7
CDS5668	10	3.0	9.3	2.8	8.7	6.7
CDS5678	10	3.0	10.3	3.1	8.7	6.7

Table 1: CDS Maintenance Indicators and Sediment Storage Capacities

Support

- Drawings and specifications are available at www.contechstormwater.com.
- Site-specific design support is available from our engineers.

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CDS Inspection & Maintenance Log

CDS Model: _____ Location: _____

Date	Water depth to sediment[1]	Floatable Layer Thickness[2]	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than the values listed in table 1 the system should be cleaned out. **Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.**

2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

Isolator® Row Plus
O&M Manual

ADS StormTech™

The Isolator® Row Plus

Introduction

An important component of any Stormwater Pollution Prevention Plan is inspection and maintenance. The StormTech Isolator Row Plus is a technique to inexpensively enhance Total Suspended Solids (TSS), Total Phosphorus (TP), Total Petroluem Hydrocarbons (TPH) and Total Nitrogen (TN) removal with easy access for inspection and maintenance.

The Isolator Row Plus

The Isolator Row Plus is a row of StormTech chambers, either SC-160, SC-310, SC-310-3, SC-740, DC-780, SC-800, MC-3500, MC-4500 or MC-7200 models, are lined with filter fabric and connected to a closely located manhole for easy access. The fabric lined chambers provide for sediment settling and filtration as stormwater rises in the Isolator Row Plus and passes through the filter fabric. The open bottom chambers allow stormwater to flow vertically out of the chambers. Sediments are captured in the Isolator Row Plus protecting the adjacent stone and chambers storage areas from sediment accumulation.

ADS Isolator Row and Plus fabric are placed between the stone and the Isolator Row Plus chambers. The woven geotextile provides a media for stormwater filtration, a durable surface for maintenance, prevents scour of the underlying stone and remains intact during high pressure jetting.

The Isolator Row Plus is designed to capture the “first flush” runoff and offers the versatility to be sized on a volume basis or a flow-rate basis. An upstream manhole provides access to the Isolator Row Plus and includes a high/low concept such that stormwater flow rates or volumes that exceed the capacity of the Isolator Row Plus bypass through a manifold to the other chambers. This is achieved with an elevated bypass manifold or a high-flow weir. This creates a differential between the Isolator Row Plus row of chambers and the manifold to the rest of the system, thus allowing for settlement time in the Isolator Row Plus. After Stormwater flows through the Isolator Row Plus and into the rest of the chamber system it is either exfiltrated into the soils below or passed at a controlled rate through an outlet manifold and outlet control structure.

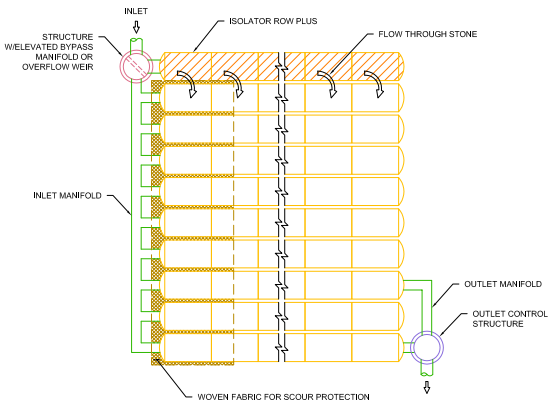
The Isolator Row Plus Flamp™ is a flared end ramp apparatus attached to the inlet pipe on the inside of the chamber end cap. The FLAMP provides a smooth transition from pipe invert to fabric bottom. It is configured to improve chamber function performance by enhancing outflow of solid debris that would otherwise collect at the chamber's end, or more difficult to remove and require confined space entry into the chamber area. It also serves to improve the fluid and solid flow into the access pipe during maintenance and cleaning and to guide cleaning and inspection equipment back into the inlet pipe when complete.

The Isolator Row Plus may be part of a treatment train system. The treatment train design and pretreatment device selection by the design engineer is often driven by regulatory requirements. Whether pretreatment is used or not, StormTech recommend using the Isolator Row Plus to minimize maintenance requirements and maintenance costs.

Note: *See the StormTech Design Manual for detailed information on designing inlets for a StormTech system, including the Isolator Row Plus.*

Looking down the Isolator Row Plus from the manhole opening, ADS Plus Fabric is shown between the chamber and stone base.

StormTech Isolator Row Plus with Overflow Structure (not to scale)



Isolator Row Plus Inspection/Maintenance

Inspection

The frequency of inspection and maintenance varies by location. A routine inspection schedule needs to be established for each individual location based upon site specific variables. The type of land use (i.e. industrial, commercial, residential), anticipated pollutant load, percent imperviousness, climate, etc. all play a critical role in determining the actual frequency of inspection and maintenance practices.

At a minimum, StormTech recommends annual inspections. Initially, the Isolator Row Plus should be inspected every 6 months for the first year of operation. For subsequent years, the inspection should be adjusted based upon previous observation of sediment deposition.

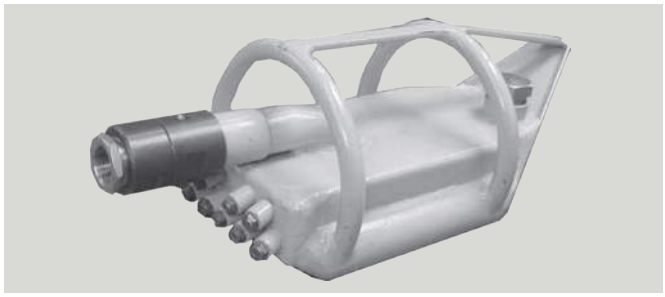
The Isolator Row Plus incorporates a combination of standard manhole(s) and strategically located inspection ports (as needed). The inspection ports allow for easy access to the system from the surface, eliminating the need to perform a confined space entry for inspection purposes.

If upon visual inspection it is found that sediment has accumulated, a stadia rod should be inserted to determine the depth of sediment. When the average depth of sediment exceeds 3" (75 mm) throughout the length of the Isolator Row Plus, clean-out should be performed.

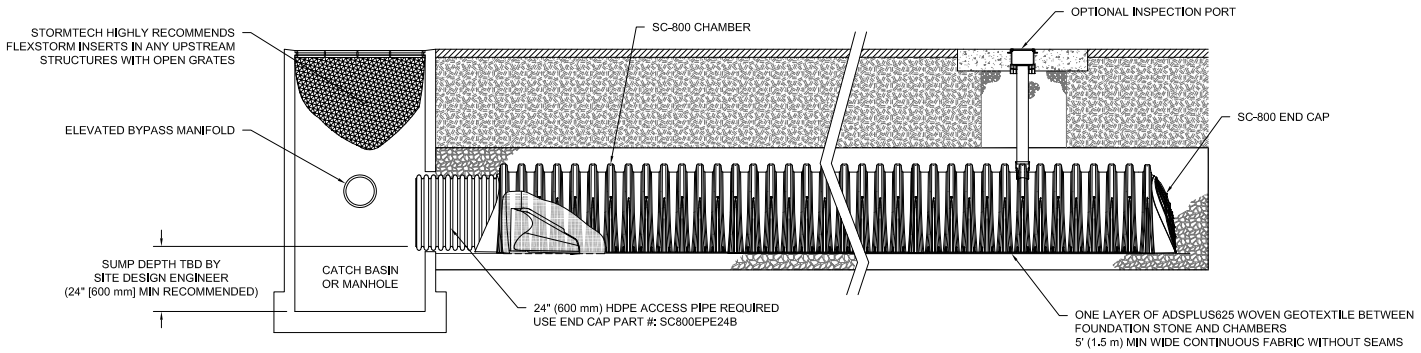
Maintenance

The Isolator Row Plus was designed to reduce the cost of periodic maintenance. By “isolating” sediments to just one row, costs are dramatically reduced by eliminating the need to clean out each row of the entire storage bed. If inspection indicates the potential need for maintenance, access is provided via a manhole(s) located on the end(s) of the row for cleanout. If entry into the manhole is required, please follow local and OSHA rules for a confined space entry.

Maintenance is accomplished with the JetVac process. The JetVac process utilizes a high pressure water nozzle to propel itself down the Isolator Row Plus while scouring and suspending sediments. As the nozzle is retrieved, the captured pollutants are flushed back into the manhole for vacuuming. Most sewer and pipe maintenance companies have vacuum/JetVac combination vehicles. Selection of an appropriate JetVac nozzle will improve maintenance efficiency. Fixed nozzles designed for culverts or large diameter pipe cleaning are preferable. Rear facing jets with an effective spread of at least 45” are best. StormTech recommends a maximum nozzle pressure of 2000 psi be utilized during cleaning. JetVac reels can vary in length. For ease of maintenance, ADS recommends Isolator Row Plus lengths up to 200' (61 m). **The JetVac process shall only be performed on StormTech Isolator Row Plus that have ADS Plus Fabric (as specified by StormTech) over their angular base stone.**



StormTech Isolator Row Plus (*not to scale*)



Isolator Row Plus Step By Step Maintenance Procedures

Step 1

Inspect Isolator Row Plus for sediment.

A) Inspection ports (if present)
- i. Remove lid from floor box frame
- ii. Remove cap from inspection riser
- iii. Using a flashlight and stadia rod,measure depth of sediment and record results on maintenance log.
- iv. If sediment is at or above 3 inch depth, proceed to Step 2. If not, proceed to Step 3.

B) All Isolator Row Plus
- i. Remove cover from manhole at upstream end of Isolator Row Plus
- ii. Using a flashlight, inspect down Isolator Row Plus through outlet pipe
  1. Mirrors on poles or cameras may be used to avoid a confined space entry
  2. Follow OSHA regulations for confined space entry if entering manhole
- iii. If sediment is at or above the lower row of sidewall holes (approximately 3 inches), proceed to Step 2.
  If not, proceed to Step 3.

Step 2

Clean out Isolator Row Plus using the JetVac process.

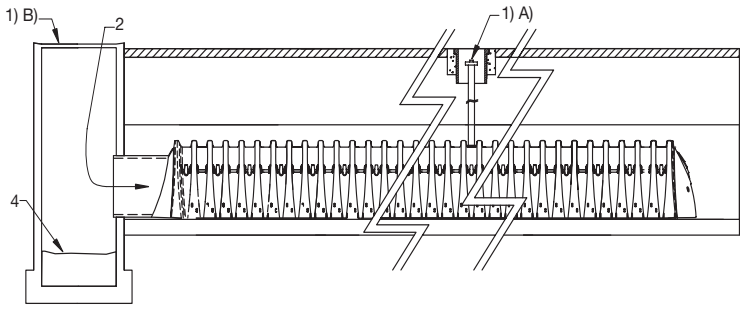
A) A fixed floor cleaning nozzle with rear facing nozzle spread of 45 inches or more is preferable
B) Apply multiple passes of JetVac until backflush water is clean
C) Vacuum manhole sump as required

Step 3

Replace all caps, lids and covers, record observations and actions.

Step 4

Inspect & clean catch basins and manholes upstream of the StormTech system.



Sample Maintenance Log

Date	Stadia Rod Readings		Sediment Depth (1)–(2)	Observations/Actions	Inspector
	Fixed point to chamber bottom (1)	Fixed point to top of sediment (2)			
3/15/11	6.3 ft	none		New installation. Fixed point is CI frame at grade	DJM
9/24/11		6.2	0.1 ft	Some grit felt	SM
6/20/13		5.8	0.5 ft	Mucky feel, debris visible in manhole and in Isolator Row Plus, maintenance due	NV
7/7/13	6.3 ft		0	System jetted and vacuumed	DJM

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ATTACHMENT F

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT (ESA)

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

VERTEX

Extra Space Storage #1536
1030 East 4th Street
Santa Ana, California 92701

Prepared For:

Extra Space Storage LLC
2495 E. Cottonwood Parkway, Ste 400
Salt Lake City, UT 84121
Attn: Ms. Gwyn Goodson McNeal

Prepared By:

The Vertex Companies, Inc.
400 Libbey Parkway
Weymouth, MA 02189
781-952-6000

VERTEX Project No: 32668

March 20, 2015

VERTEX

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March 20, 2015

Extra Space Storage LLC
2495 E. Cottonwood Parkway, Ste 400
Salt Lake City, UT 84121
Attn: Ms. Gwyn Goodson McNeal

RE: Phase I Environmental Site Assessment
Extra Space Storage #1536
1030 East 4th Street
Santa Ana, California 92701
VERTEX Proj. No. 32668

Dear Ms. McNeal:

The Vertex Companies, Inc. (VERTEX) is pleased to submit this Phase I Environmental Site Assessment (ESA) report for the above referenced property (the site). The purpose of this assessment was to identify Recognized Environmental Conditions (RECs) in connection with the site. A REC is defined as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." It does not include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Our work was conducted in conformance with proposal P.0386.15, executed by Ms. Gwyn Goodson McNeal on March 4, 2015, and in accordance with the provisions of the E 1527-13 American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate, as well as the U.S. Environmental Protection Agency's (USEPA) All Appropriate Inquires (AAI) Final Rule of November 1, 2005, as amended December 30, 2013. To the best of our knowledge, this Phase I ESA report is true and accurate.

VERTEX also assessed the site for the potential presence of asbestos-containing materials (ACMs) and lead-based paint (LBP).

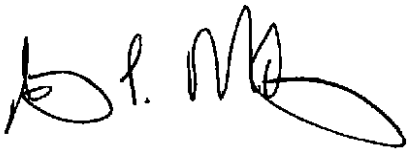
We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in 40 CFR § 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Please do not hesitate to contact us at your convenience should you have any questions or comments regarding this report or our recommendations. It has been a pleasure working with you on this project.

Sincerely,

The Vertex Companies, Inc.

Mark Jirgal, P.G.
Senior Project Manager



Stephen P. McCarthy
Vice President - Due Diligence

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Appendix E: Sanborn Fire Insurance Maps
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PHASE I ENVIRONMENTAL SITE ASSESSMENT

Extra Space Storage #1536
1030 East 4th Street
Santa Ana, California 92701
VERTEX Proj. No. 32668

1.0 SUMMARY

On March 4, 2015, The Vertex Companies, Inc. (VERTEX) was retained by Extra Space Storage, LLC to conduct a Phase I Environmental Site Assessment (ESA) of the Extra Space Storage facility located at 1030 East 4th Street, Santa Ana, California (the site). According to the Orange County Clerk, the approximately 3.3-acre site parcel is identified as Parcel Number 398-461-18 and is addressed as 1030 East 4th Street. The site is developed with a single-story office building with a retail area and manager's apartment and seven single-story self-storage buildings that were constructed in 1995. Additional improvements consist of asphalt and concrete-paved parking and driveway areas, security gates, and landscaped areas. The site is owned by Extra Space Properties Two LLC.

The purpose of this assessment was to identify Recognized Environmental Conditions (RECs) in connection with the site.

ASTM Findings

- Based on a review of historical information, the site was used for residential purposes from at least 1885 until approximately 1906, when it was developed as a railway station with associated railroad tracks. Other areas of the site were further improved in 1949 with section housing and, in 1969, with a planing mill. The former site improvements were removed in the early 1990s and the site was redeveloped with the current improvements (self-storage facilities) in 1995.

- To further assess the historical use of the site for rail operations as part of a prior assessment, in 2013 VERTEX conducted a Limited Subsurface Investigation (LSI), which included the advancement of four test borings and the laboratory analysis of select soil samples. The soil borings were advanced to a depth of approximately 30 feet below ground surface (bgs). Groundwater was not encountered during the drilling activities. Based on documentation reviewed for off-site regulatory listings, groundwater is anticipated to be approximately 76 feet bgs. Select soil samples from each of the four test borings were submitted for analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons – diesel range organics (TPH DRO), Resource Conservation and Recovery Act (RCRA) 8 metals, and polychlorinated biphenyls (PCBs). None of these constituents were detected at concentrations above the California Regional Water Quality Board (RWQCB) Environmental Screening Levels (ESLs; Deep Soil Screening Levels) for Commercial/Industrial Land Use or the California Human Health Screening Levels for Commercial/Industrial Land Use (CHHSL), except for arsenic. However, the arsenic concentrations identified were within background arsenic levels found throughout the region, and therefore, no further action is warranted. Based on the findings from the Phase II LSI, no RECs were identified with respect to the past use of the site.

- The site is located in a commercial and industrial area. The area surrounding the site has been developed since circa 1895 including railroad tracks and associated facilities and residential, commercial, and industrial facilities. No RECs in connection with the site were identified with respect to the adjacent property use.

- VERTEX conducted a regulatory review that included a search of state and federal regulatory databases to identify environmental concerns for the site and surrounding properties. Several additional facilities were identified within the ASTM search distances of the site. Based on the apparent gradient relationship, regulatory status, depth to groundwater and other facility-specific characteristics, no RECs to the site were identified with respect to these facilities.

Non-ASTM Additional Services

In accordance with the proposed scope of work, VERTEX conducted additional services as discussed in Section 9.0 of this report, including the assessment of asbestos-containing materials (ACMs) and lead-based paint (LBP), which did not reveal business environmental risks associated with the site.

Conclusions

VERTEX has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, of the Extra Space Storage facility located at 1030 East 4th Street, Santa Ana, California. Exceptions to, or deletions from, this practice are described in Section 8.0 of this report. This assessment has revealed no evidence of RECs in connection with the site. Therefore, no additional investigation is recommended at this time.

2.0 SITE AND VICINITY CHARACTERISTICS

2.1 Site Description

The site is located at 1030 East 4th Street, Santa Ana, California (the site). According to the Orange County Clerk, the approximately 3.3-acre site parcel is identified as Parcel Number 398-461-18. The site is located south of East 4th Street, north of East 1st Street, and east of North Standard Avenue and Breeden Street. The site location is shown on Figure 1 - Site Locus Map.

2.2 Site Improvements

The site is developed with a single-story office building with a retail area and manager's apartment and seven single-story self-storage buildings that were constructed in 1995. Additional improvements consist of asphalt and concrete-paved parking and driveway areas, security gates, and landscaped areas. The seven single-story buildings house 444 storage units. The buildings are constructed with slab-on-grade foundations with concrete block walls and steel frames with metal roofing. The office/apartment building is one-story stucco building with the interior finished with tile flooring and painted drywall walls and ceilings. The storage units are constructed of corrugated steel wall dividers, corrugate steel ceiling, and concrete flooring. The manager's apartment was not accessible at the time of the site visit.

Exterior areas on-site consist of concrete-paved parking lots and drives with limited landscaping.

For a layout of the site, please refer to Figure 2 - Site Plan. Photographic documentation of the site and surrounding areas is presented in Appendix A.

2.3 Tenant Operations

The site currently operates as a self-storage facility. Hazardous materials observed at the site were limited to small quantities of household-grade janitorial and cleaning supplies and paints which were stored in a designated self-storage unit near the manager's office. The containers

appeared to be appropriately stored and no evidence of staining or a release was observed. According to the site contact, no operations using hazardous materials, apart from minor cleaning of the site maintenance equipment, are performed on-site. Therefore, the current on-site operations are not considered an environmental concern.

2.4 Current Uses of Adjoining Properties

The site was observed to be located in a commercial and industrial area. Adjoining properties were observed (from the site or from public access areas) for signs of RECs and their potential to pose an environmental concern to the site. The uses and features of adjoining properties are described in the following table. The locations of these properties relative to the site are depicted on Figure 2 – Site Plan.

NEARBY/ADJOINING PROPERTY SUMMARY		
DIRECTION	**PROPERTY USE**	**CONCERNS**
North	East 4th Street beyond which are Taqueria de Anda restaurant (1029 East 4th Street) and Madison Materials (1035 East 4th Street).	None
West/South	Breeden Street and north Standard Avenue, beyond which is Tom Truck Center (936 East 3rd Street and 1008 East 4th Street). Various automotive facilities (115 and 117 North Standard Avenue) occupy the property which adjoins the site to the south and west.	None
South	East 1st Street beyond which is California Tool & Welding Supply (1004 North Standard Road)	None
East	Spec Formliners (1038 East 4th Street)	None

2.5 Physical Setting Source(s)

Physical setting sources specified in Section 12.0 of this report were reviewed to provide information about the geology and hydrogeology of the site.

2.5.1 Topography

A review of the 1981 USGS Topographic Quadrangle Map of Tustin, California indicates that the surface elevation of the site is approximately 131 feet above mean sea level (amsl). The topography of the site and site area is generally flat with a gentle slope to the southwest.

2.5.2 Surface Water

No naturally-occurring surface water bodies were observed on-site or in the vicinity of the site.

2.5.3 Geologic Conditions

According to the United States Department of Agriculture (USDA) soils at the site consist of the Mocho Soil. The Mocho Soil consists of loam that is well drained, and has moderate infiltration rates. Based on a subsurface investigation of the site performed by VERTEX in June 2013, lithology encountered at the site generally consisted of brown loamy soils at depths less than 20 feet bgs, and brown loamy clays at depths of 20 to 30 feet bgs.

2.5.4 Groundwater

Information from a leaking underground storage tank (LUST) case file for G&M Oil Company Station No. 49, located approximately ¼ mile east-northeast of the site, was obtained from the State of California's GeoTracker database. According to groundwater elevation measurements collected during 2009 for the G&M Oil Company No. 49 LUST case, groundwater in the area flows to the south-southeast. Depth to groundwater at this location was measured at 76 feet below ground surface (bgs). VERTEX notes that depth to groundwater may fluctuate depending upon seasonal rainfall amounts. Actual flow direction may be influenced by differential weathering and fracturing of underlying bedrock or other factors including underground structures, and production wells, seasonal precipitation or nearby waterway fluctuations, none of which were considered during this study.

3.0 USER-PROVIDED INFORMATION

VERTEX requested the following information regarding the site from Extra Space Storage, LLC (User):

- An evaluation of the presence of environmental cleanup liens for the site;
- Activity and use limitations (AULs) such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the site;
- Specialized knowledge that includes personal knowledge or experience related to the site or nearby properties based on professional experience or knowledge of the site;
- Fair market value (FMV) to evaluate whether the purchase price of any parcel was significantly below FMV;
- Obvious indicators that involve past or present spills, stains, releases, cleanups on or near the site;
- Common knowledge about use of specific chemicals, possible contamination, or past use of the site and surrounding area; and
- Reason for performing the ESA.

Ms. McNeal stated that the work was being conducted in support of a mortgage transaction. Refer to Section 5.3 for a summary of a prior reports prepared for the site. Extra Space Storage LLC had no specialized knowledge regarding the history of the site or nearby properties. No other information regarding the site was provided by the User.

4.0 INTERVIEWS

VERTEX conducted an interview regarding site history and the current on-site operations with the following individuals:

INTERVIEWS		
NAME/ COMPANY	**TITLE/POSITION**	**INFORMATION PROVIDED**
Ms. Sandra Victoria	Store Manager	Provided information regarding site history and operations
Municipal Officials	Various	Provided municipal information

Information obtained from these interviews is discussed in relevant sections of this report. Please refer to Section 6.3 for a summary of information obtained from municipal inquiries.

5.0 HISTORICAL RECORDS REVIEW

Past land uses for the site and adjoining properties were assessed to identify historical practices or conditions that may have impacted the site. This was accomplished by reviewing historical information from several sources including but not limited to an interview with a site representative, review of available previous environmental reports and ownership records, and review of historical information obtained from regulatory sources, aerial photographs, city directories, and maps.

5.1 Historical Site Use Summary

Based on a review of historical information, the site was used for residential purposes from at least 1885 until approximately 1906, when it was developed as a railway station with associated railroad tracks. Other areas of the site were further improved in 1949 with section housing and, in 1969, with a planing mill. The former site improvements were removed in the early 1990s and the site was redeveloped with the current improvements in 1995.

5.2 Historical Adjoining Properties Use Summary

The site is located in a commercial and industrial area. The properties to the north, east, and south contained railroad tracks and railroad facilities dating back to at least 1895. At that time, a creamery was located north of the site and a cannery was located to the south. The property west of the site consisted of vacant land and dwellings. Additional commercial and industrial structures appeared during the 1930s and 1940s to the south and west including lumber sheds and lumber piles west of the site. During the 1960s, additional commercial and industrial structures were developed north, west, and south of the site and most of those structures are currently present. By 1994/95, the railroad tracks and facilities had been removed from the adjoining property to the east. By 2005, a large commercial building had been built east of the site. No environmental concerns were identified with respect to the past uses of adjoining properties.

5.3 Previous Environmental Reports

VERTEX was provided with and reviewed the following previous environmental reports regarding the site:

Report of Foundation Investigation, prepared by Law/Crandall, Inc. (LCI) for Rail Pacific, Inc., dated August 4, 1992.

LCI conducted a foundation investigation in 1992, prior to the development of the current improvements. LCI drilled seven borings to depths ranging from 6 to 21 feet bgs and determined that soils below the site consisted mostly of silty sand, silt, and sand. Fill soils were encountered in one of the borings composed of silty gravel. LCI gathered samples and conducted compressibility tests to determine if the soils were suitable for development. It was concluded that the existing natural soils at the site were moderately firm, but would lose strength when wetted and therefore were not suitable for construction. LCI recommended two feet of the upper natural soils be removed and replaced with properly compacted fill.

Phase I Environmental Site Assessment Report, prepared by Secor International Incorporated (Secor) for GE Real Estate and North American Debt, dated July 11, 2005.

Secor conducted an environmental site assessment in 2005, when the site consisted of 2.92 acres developed as All Aboard Mini Storage. The site consisted of seven single-story self-storage structures and one single-story office/manager's apartment unit. Secor determined that the site was formerly developed as a residential property, a train depot, and a railroad yard prior to the development of the current improvements. Secor reviewed a prior Phase I Site Assessment conducted by LCI in 1992. LCI observed surface soil staining along the former railroad tracks that was determined to be diesel fuel from the rail spurs or parked cars. According to a representative of Hyrail Partners II LP, the site was graded to a depth of approximately six feet bgs in 1993. The staining was determined to be *de minimis* based on the observed soil. Secor identified several adjoining facilities on regulatory databases, but did not identify any RECs in connection with the site and recommended no further assessment for the site.

Phase I Environmental Site Assessment and Phase II Limited Subsurface Investigation (LSI), prepared by VERTEX Environmental Services, Inc. for Extra Space Storage LLC, dated June 28, 2013.

The purpose of the VERTEX's 2013 Phase I ESA was to identify RECs in connection with the site. To further assess the historical use of the site for rail operations, VERTEX conducted a LSI, which consisted of a ground-penetrating radar (GPR) survey, four test borings, and laboratory analysis of select soil samples. The GPR survey was utilized to pre-clear all soil borings of potential subsurface utilities. No subsurface anomalies were identified during the GPR survey.

VERTEX advanced four test borings (VB-1 through VB-4) on the site on June 18, 2013. Soil borings were advanced to a depth of approximately 30 feet bgs using direct-push drilling techniques. Groundwater was not encountered during the drilling activities. No visual or olfactory evidence of contamination was detected in the soil borings. Field screening of soil samples using a photoionization detector (PID) did not identify total volatile organic compounds (TVOCs) concentrations above 1 part-per million by volume (ppmv).

Select soil samples from each of the four test borings were submitted for analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons – diesel range organics (TPH DRO), Resource Conservation and Recovery Act (RCRA) 8 metals, and polychlorinated biphenyls (PCBs).

Detectable concentrations of these chemical constituents were compared to applicable screening levels including California Regional Water Quality Board (RWQCB) Environmental Screening Levels (ESLs; Deep Soil Screening Levels) for Commercial/Industrial Land Use and California Human Health Screening Levels for Commercial/Industrial Land Use (CHHSL). PAHs and PCBs were not detected in any sample analyzed. TPH DRO in the C10-C22 Hydrocarbons Range was detected in one soil sample at a concentration of 1.0 milligrams per kilogram (mg/kg), well below the RWQCB ESL of 530 mg/kg. Acetone, benzene and toluene were detected in samples collected from 2 of the 4 borings at maximum concentrations of 0.011, 0.001 and 0.00076 mg/kg, respectively, well below RWQCB ESLs of 0.5, 0.044 and 2.9 mg/kg,

respectively. Several metals were detected at concentrations well below RWQCB ESLs and CHHSLs with the exception of arsenic. Arsenic was detected at concentrations as high as 6.4 mg/kg, exceeding the applicable CHHSL of 0.24 mg/kg and the RWQCB ESL of 0.96 mg/kg. However, according to the Determination of a Southern California Regional Background Arsenic Concentration in Soil, G. Chernoff, W.Bosan and D. Oudiz, Department of Toxic Substances Control DTSC website dated March 2008, the DTSC findings suggested that, in Southern California, 12 mg/kg may be a useful screening number for evaluating arsenic as a chemical of potential concern. Therefore, the arsenic concentrations identified are considered to be similar to background arsenic levels found throughout the region, and no regulatory reporting of these concentrations is required. Additionally, since the site is paved or covered by buildings there is no exposure to site soils.

VERTEX indicated that their 2013 assessment revealed no evidence of RECs in connection with the site. Therefore, no additional work was recommended at that time.

Refer to Appendix B for a copy of select portions (text, figures, and photos) of the above-referenced reports.

5.4 Prior Ownership

VERTEX obtained site ownership information from the Orange County Assessor and Recorder Offices. The site currently is owned by Extra Space Properties Two LLC. Previous ownership information obtained by VERTEX is summarized as follows:

DEED RECORDS REVIEW				
GRANTOR	**GRANTEE**	**DOCUMENT TYPE**	**DOCUMENT NO.**	**DATE**
Santa Ana Hyrail III LLC	Extra Space Properties Two LLC	Grant Deed	2013000510939	08/23/2013
Hyrail Partners V LLC	Santa Ana Hyrail III LLC	Grant Deed	2005000688797	08/16/2005

No environmental liens or AULs were noted through review of ownership records. Prior owners of the site were not available to be interviewed.

5.5 City Directories

VERTEX reviewed historical city directory information for the site and adjoining properties through EDR. Refer to Appendix B for the EDR City Directory report. A summary of listings is presented below.

CITY DIRECTORY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1920	No Listing	*East 3rd Street* 928: G.H. Dow *East 4th Street* 1029: CW Crawford Restaurant, EJ Vasquez Shoemaker (1922)	None
1925	No Listing	*East 3rd Street* 928: G.J. Wood *Breeden Street* 312: De Luxe Photo Service 316: Depot Café	None
1930	No Listing	*East 3rd Street* 928: G.J. Wood *East 4th Street* 1008: Raitt's Sanitary Dairy *Breeden Street* 312: Swiney & Wilsdn Photos 316: U.S. Termite Control Warehouse	None
1936	*1030 East 4th Street:* SP Ry Co.	*East 3rd Street* 928: G.R. Oross *East 4th Street* 1008: Raitt's Rich Milk Co. 1029: Jesus Gastelo Restaurant *Breeden Street* 312: De Luxe Photo Service	None, see below
1941	*1030 East 4th Street:* Freight & Ticket Office	*East 4th Street* 1008: Arden Farms Co. 1029: Ray B Sandoval *North Standard Avenue* 201: La Belle Beauty Shop 203: Pillowry Gift Shop	None, see below
1945	*1030 East 4th Street:* Depot Freight & Ticketing Office	*East 3rd Street* 928: Barr Lumber Yard *East 4th Street* 1029: Right Road Café	None, see below

CITY DIRECTORY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1952	*1030 East 4th Street:* South Pacific Co.	*East 4th Street* 1008: Arden Farms Co. 1038: Santa Fe Ry Co. *North Standard Avenue* 201: Harris Drug Store 210: Gold Furn Co. 222: Fullerton Store	None, see below
1956	*1030 East 4th Street:* Pac Motor Trucking Co., Freight Ofc, Santa Ana Ticket Freight & Passenger Agt	*East 4th Street* 1008: Arden Farms Co. 1029: Right Road Café	None, see below
1960	*1030 East 4th Street:* PE Ry Frt Agency, SP Depot	*East 4th Street* 1008: Arden Farms 1029: Right Road Café	None, see below
1966	*1030 East 4th Street:* Santa Ana Freight Ofc, Southern Pacific Co.	*East 4th Street* 1008: Arden Farms Co. Santa Ana 1010: Skyline Realty 1029: Right Road café	None, see below
1970	No Listing	*East 4th Street* 1008: Arden Farms 1029: Right Road Café	None, see below
1975	No Listing	*East 3rd Street* 928: Tom's Towing & Truck Repair *East 4th Street* 1008: Arden Farms	None, see below
1980	No Listing	*East 3rd Street* 928: Reindeer Towing & Repair Co., Truck Repair Service *East 4th Street* 1008: Main Office Santa Ana	None, see below
1986	No Listing	*East 3rd Street* 928: Honda Auto Dismantling, Honda Wrecking Yard 938: Tom's Truck Repair *East 4th Street* 1008: Tom's Towing Division	None, see below
1991	No Listing	*East 3rd Street* 928: Sure Lease Rentals Inc., Tom's Truck Center 936: Nissan UD Diesel Truck of Orange County 938: Tom's Truck Center *East 4th Street* 1008: Tom's Towing Division, Tom's Truck Sales	None, see below
1995	*1030 East 4th Street:* Right Track Construction Co.	*East 3rd Street* 928: H Truck Dismantling Iveco Isuzu UD GMC, Reindeer Inc. 936: Oneco Isuzu GMC Repair & Service, Tom's Truck Center, H Truck Dismantling 938: Tom's Truck Center, Reindeer Inc. *East 4th Street* 1008: 24 Towing & Road Service Call, Aeromate Trucks, Tom's Truck Center 1029: Right Road Café	None, see below

CITY DIRECTORY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
2002	*1030 East 4th Street:* All Aboard Mini Storage	*East 3rd Street* 928: Tom's Truck & Used Parts 936: Tom's Truck Center, Reindeer Inc. *East 4th Street* 1008: Sisu Trucks, Office, Reindeer Inc., Aeromatc Trucks, Magnum Trucks 1029: Taqueria de Anda	None, see below
2007	No Listing	*East 3rd Street* 928: Tom's Truck Center Santa Ana 936: Suzuki Depot *East 4th Street* 1029: Taqueria de Anda 1038: Joe Kunz Co. Inc.	None, see below
2012	*1030 East 4th Street:* All Aboard Mini Storage	*East 3rd Street* 936: Reindeer Inc, Tom's Truck Center, Iveco Diesel, Suzuki Depot Parts Department *East 4th Street* 1008: Tom's Truck Center 1029: Taqueria de Anda 1038: Joe Kunz Co. Inc.	None, see below

A review of the above-referenced historical city directories revealed that the site was developed with railroad tracks and a railway station beginning in 1936. A summary of previous site investigation activities in response to the former use of the site as a railway station is presented in Section 5.3. No additional on-site concerns were noted from review of city directories. No RECs were identified in connection with the site based on the off-site city directories listings summarized above.

5.6 Aerial Photography

VERTEX reviewed aerial photographs including the site and adjoining properties. Copies of the aerial photographs are included in Appendix C. A summary of information obtained from the review is provided in the table below.

AERIAL PHOTOGRAPHY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1938	The site appears to consist of railroad tracks, undeveloped land, and structure on the northern portion of the site. The remaining area on-site is undeveloped land.	East 4th Street is visible north of the site, beyond which railroad tracks and several structures are visible. Railroad tracks and a structure are visible east of the site. East 1st Street is visible south of the site, beyond which are vacant land and several structures. Three structures are visible southwest of the site. North Standard Avenue is visible west of the site, beyond which, several large structures are visible. Two structures and Breeden Street are visible adjoining west of the site. Beyond Breeden Street, several structures are visible.	None, see below
1947	The site appears similar to the 1938 aerial photograph.	The structures west of the site, beyond Breeden Street, appear to have been further developed.	None, see below
1953	A structure has been developed on the southern portion of the site.	The structures south of the site, beyond East 1st Street appear to have been further developed.	None, see below
1960	The site appears similar to the 1953 aerial photograph.	A structure has been developed north of the site, beyond East 4th Street.	None, see below
1968	A structure has been developed on the western portion of the site. The structure on the southern portion of the site is no longer visible.	No structures are visible north of the site, beyond East 4th Street. One of the structures adjoining east of the site is no longer visible. The structures southwest of the site have been redeveloped.	None, see below
1977	The structure on the northern portion of the site is no longer visible. Several structures have been developed towards the central portion of the site. The southern portion of the site appears to be used as vehicle storage.	Several structures have been developed south of the site, beyond East 1st Street.	None, see below
1990	The southern portion of the site no longer appears to contain vehicle storage.	One of the structures east of the site is no longer visible.	None, see below
1994,1995 Composite	The site appears to consist of vacant land.	The property adjoining east of the site appears to consist of vacant land. The property south of the site, beyond East 1st Street, appears to consist of vacant land. The property adjoining west of the site appears to consist of vacant land.	None
2005	The site appears to be developed with the current improvements.	A structure has been developed north of the site, beyond East 4th Street. A large structure has been developed adjoining east of the site. The property south of the site, beyond East 1st street has been redeveloped.	None
2009	The site appears similar to the 2005 aerial photograph.	Surrounding areas appear similar to the 2005 aerial photograph.	None
2010	The site appears similar to the 2009 aerial photograph.	Surrounding areas appear similar to the 2009 aerial photograph.	None
2012	The site appears similar to the 2010 aerial photograph.	The surrounding areas appear similar to the 2010 aerial photograph.	None

A review of the above-referenced historical aerial photographs revealed that the site was developed with railroad tracks and a railway station from beginning in 1938. The site was further developed with section housing and a planing mill prior to 1968. The site consisted of vacant land in 1994 and was developed with the current improvements prior to 2005. A summary of previous site investigation activities to assess the former use of the site as a railway station is presented in Section 5.3. The review of historical aerial photographs did not identify additional specific concerns or RECs.

5.7 Topographic Maps

VERTEX reviewed historical topographic maps including the site and surrounding areas. Copies of the topographic maps are included in Appendix D. A summary of information obtained from the review is provided in the table below.

TOPOGRAPHIC MAP REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1901 1902 1935	Due to the scale of the map, the exact use and location of the site could not be determined.	Due to the scale of the map, the exact use and location of surrounding areas could not be determined.	None
1942	The site is depicted as a built up area. Train tracks are depicted crossing the site.	East 4th Street is depicted adjoining north of the site. Train tracks are depicted adjoining east of the site. East 1st Street is depicted adjoining south of the site. Breeden Street and North Standard Avenue are depicted adjoining west of the site.	None, see below
1948	The site is depicted with additional train tracks.	Additional train tracks are depicted adjoining east of the site.	None, see below
1965	A train station structure is depicted on the northern portion of the site.	A train station structure is depicted east of the site.	None, see below
1972	The site appears similar to the 1965 topographic map.	Surrounding areas appear similar to the 1965 topographic map.	None, see below
1981	The site appears similar to the 1972 topographic map.	Surrounding areas appear similar to the 1972 topographic map.	None, see below

A review of the above-referenced historical aerial topographic maps revealed that the site was developed with railroad tracks and a railway station from beginning in 1942. A summary of

previous site investigation activities to assess the former use of the site as a railway station is presented in Section 5.3. The review of historical topographic maps did not identify additional specific concerns or RECs.

5.8 Sanborn Fire Insurance Maps

VERTEX reviewed historical Sanborn Fire Insurance (Sanborn) map coverage for the site the site and surrounding areas. Copies of the Sanborn maps are included in Appendix E. A summary of the information reviewed is presented below:

SANBORN REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1885	A dwelling and a barn yard are depicted on the northern portion of the site. The remainder of the site is not depicted.	*North:* East 4th Street, beyond which, S.H. Pendleton Lumber Yard is depicted. *South:* The area south of the site is not depicted. *East:* Railroad tracks and Southern California (Sante Fe) Depot are depicted. *West:* A dwelling is depicted.	None
1906	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which Southern Chill Creamery & Ice Co. is depicted. *South:* The area is not depicted. *Southwest:* East 2nd Street and Cal Fruit Canners Association are depicted. *East:* Railroad tracks and AT&SF Railroad Depot are depicted. *West:* North Evergreen Street, Breeden Street, and vacant land are depicted.	None, see below
1949	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Section Housing is	*North:* East 4th Street, beyond which railroad tracks are depicted. *South:* The area is not depicted.	None, see below

SANBORN REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
	depicted on the southern portion of the site. A lumber shed is depicted on the western portion of the site. Railroad tracks are depicted across the site.	*Southwest:* East Second Street, two vacant buildings and railroad tracks are depicted. *East:* AT&SF Railroad Depot and railroad tracks are depicted. *West:* North Evergreen Street, Breeden Street, and lumber sheds are depicted.	
1963	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Section Housing is depicted on the southern portion of the site. A lumber shed is depicted on the western portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which railroad tracks are depicted. *South:* The area is not depicted. *Southwest:* Railroad tracks and vacant land are depicted. *East:* AT&SF Railroad Depot and railroad tracks are depicted. *West:* North Evergreen Street, Breeden Street, and lumber sheds are depicted.	None, see below
1969	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Section Housing is depicted on the southern portion of the site. A planing mill and an office are depicted on the western portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which railroad tracks are depicted. *South:* The area is not depicted. *East:* AT&SF Railroad Depot and railroad tracks are depicted. *Southwest:* Two concrete structures and East 2nd Street are depicted. *West:* Taylor Street is depicted, beyond which is a parking lot.	None, see below

A review of the above-referenced historical Sanborn maps revealed that the site was developed with railroad tracks and a railway station from beginning in 1906. A summary of previous site investigation activities to assess the former use of the site as a railway station is presented in Section 5.3. The review of Sanborn maps did not identify additional specific concerns or RECs.

6.0 REGULATORY RECORDS REVIEW

VERTEX obtained a regulatory database report as specified in Section 12.0. Review of databases and files from federal, state, and local environmental regulatory agencies was used to identify use, generation, storage, treatment, or disposal of hazardous materials and chemicals, or release incidents of such materials that might have impacted the site. The databases discussed in the following sections address ASTM requirements. Additional federal and state databases may have also been reviewed, and if so, are listed in the table below. A copy of the database report is included in Appendix F.

VERTEX's review of these listings assessed the potential for soil, groundwater, and soil vapor impacts to the subject site from on-site listings or listings at surrounding facilities, taking into account such factors as the assumed groundwater depth and flow direction, regulatory status, distance from the site, and other information reported by the regulatory database(s) and other sources.

A summary of the database information is provided in the following table.

REGULATORY DATABASE SUMMARY			
DATABASE	**ASTM RADIUS**	**TARGET PROPERTY**	**SURROUNDING FACILITIES**
National Priorities List (NPL)/Proposed NPL/De-listed NPL	1 Mile	-	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Sites	½ Mile	-	1
CERCLIS No Further Remedial Action Planned (CERC-NFRAP) Sites	½ Mile	-	0
Corrective Action Report (CORRACTS)	1 Mile	-	1
Resource Conservation and Recovery Act Treatment, Storage, and Disposal Facilities (RCRA-TSDF)	½ Mile	-	0
RCRA Hazardous Waste Generators (RCRA-LQG)	¼ Mile	-	0
RCRA Hazardous Waste Generators (RCRA-SQG)	¼ Mile	-	30
RCRA Former Hazardous Waste Generators/No Longer Regulated Sites (RCRA NonGen/NLR)	¼ Mile	-	1
Facility Index System (FINDS)	Target Property	-	-

REGULATORY DATABASE SUMMARY			
DATABASE	**ASTM RADIUS**	**TARGET PROPERTY**	**SURROUNDING FACILITIES**
Emergency Response Notification System (ERNS)	Target Property	-	-
Federal Institutional Controls/Engineering Controls (US ENG CONTROLS)	½ Mile	-	0
RESPONSE	1 Mile	-	0
ENVIROSTOR	1 Mile	-	20
State and tribal voluntary cleanup sites (VCP)	1 Mile	-	1
HAULERS	Target Property	1	-
Solid Waste Facilities/Landfills (CA SWF/LF)	½ Mile	-	2
Leaking Storage Tank Lists (CA LUST)	½ Mile	-	38
Spills, Leaks, Investigations & Cleanups	½ Mile	-	1
Underground Storage Tank (UST)	¼ Mile	-	3
Aboveground Storage Tank (AST)	¼ Mile	-	2
CA FID UST	¼ Mile	-	5
HIST UST	¼ Mile	-	11
SWEEPS UST	¼ Mile	-	11
Drycleaners	¼ Mile	-	0
US BROWNFIELDS	½ Mile	-	0
CA HIST CORTESE	½ Mile	-	15
CA Bond Exp. Plan	1 Mile	-	1
CA Notify 65	¼ Mile	-	3
San Bernardino Co. Permit	¼ Mile	-	3
CA PROC	½ Mile	-	1
CA HWT	¼ Mile	-	1
CA HWP	1Mile	-	1
HAZNET	Target Property	-	-

REGULATORY DATABASE SUMMARY			
DATABASE	**ASTM RADIUS**	**TARGET PROPERTY**	**SURROUNDING FACILITIES**
EMI	Target Property	-	-
EDR MGP	1 Mile	-	2
EDR Historical Auto Stations	¼ Mile	-	59
EDR Historical Cleaners	¼ Mile	-	13

The EDR database report includes an orphan summary. This summary identifies facilities that are listed on one of the above-referenced databases or lists but do not include complete or accurate geographic data. Consequently, EDR was unable to map the facilities in relation to the site. Review of the EDR report revealed two Orphan listings (SWF/LF & ENVIROSTOR/VCP); however, these facilities are not located within 0.50 miles of the site.

6.1 On-Site Listings

The site was identified on one database reviewed. The site was identified on the HAULERS (Registered Waste Tire Haulers Listing) as Allis Tires, 1030 East 4th Street as a generator, small quantity. No permit record for this business was reported. No additional relevant information was provided. This listing likely resulted from the hauling of waste tires away from the facility and does not pose an environmental concern with respect to the site.

6.2 Off-Site Listings

A review of state and federal regulatory records revealed several facilities within ASTM-specified search radii of the site. Five of the facilities identified on the database listings are located in close proximity to the site and are summarized as follows:

OFF-SITE STATE AND FEDERAL LISTINGS			
FACILITY	**DISTANCE AND DIRECTION/ GRADIENT**	**REGULATORY STATUS**	**CONCERNS**
Berlin Auto Center 115 North Standard Avenue	Adjacent southwest/ Cross-gradient	**RCRA-SQG:** Generates more than 100 and less than 1000 kg of hazardous waste during any calendar month. **EDR US Hist Auto Stat:** Listed under multiple auto service, auto painting, and autobody centers from 1999 to 2012. No violations or releases were reported at this facility.	None
Joes Transmission 117 North Standard Avenue	Adjacent southwest/ Cross-gradient	**RCRA-SQG:** Generates more than 100 and less than 1000 kg of hazardous waste during any calendar month. No violations or releases were reported at this facility.	None
Tom's Truck Center 936 East 3rd Street	70-feet west/Cross-gradient	**RCRA-SQG:** Generates more than 100 and less than 1000 kg of hazardous waste during any calendar month. No violations or releases were reported at this facility.	None
Tom's Truck Center 1008 East 4th Street	70-feet west/Up-gradient	**HIST UST:** Identified for one, 7,600 gallon gasoline UST. **SWEEPS UST:** Identified for one, 7,500 gallon gasoline UST No releases were reported at this facility.	None
Madison Materials 1035 East 4th Street.	80-feet north/ Cross-gradient	**SWF/LF:** Listed as a large volume transfer/processing facility of construction/demolition debris, green materials, inert, and metals. **AST:** Listed for one, 1,320 gallon AST. Contents not reported. **RCRA-SQG:** Generating ignitable hazardous wastes, corrosive hazardous wastes, wastewaters, process residuals, preservative drips, and spent solvent formulations from wood preserving processes, and bottom sediment sludge from the treatment of wastewaters from wood preserving processes. No violations have been reported related to this facility **FINDS:** Pointing to other sources of information **NPDES:** Active National Pollutant Discharge Elimination System permit as of 09/03/2013. **HAZNET:** Generator of other inorganic solid waste, organic liquids (non-solvents) with halogens, storage, bulking, and/or transfer off site--No Treatment/Recovery. No releases were reported at this facility.	None

No violations or releases were reported at the five facilities located in close proximity to the site. Numerous facilities were identified on state and federal regulatory databases that are located within the vicinity of the site and up-gradient. Based on the number of industrial uses listed in

regulatory databases that are located within the vicinity of the site, groundwater quality in the area may be degraded. However, review of select records on file on GeoTracker did not identify upgradient releases cases that represent an environmental concern to the site. Additionally, based on the depth to groundwater (greater than 70 feet bgs) and the findings from the 2013 VERTEX Phase II LSI which did not identify constituents of concern in soil above applicable RWQCB ESLs, , we conclude that the off-site releases do not represent a risk of vapor intrusion. The remaining database listings are not considered an environmental concern to the site based on distance, regulatory status, and apparent groundwater gradient.

6.3 Additional Environmental Record Sources

VERTEX contacted local agencies to request information relevant to the site and vicinity. A summary of the agencies contacted and the information obtained is included in the following table.

LOCAL RESEARCH SUMMARY		
OFFICE	**INFORMATION OBTAINED**	**CONCERNS**
Orange County Assessor's Office	VERTEX obtained detailed property information for the subject site.	None
Orange County Recorder's Office	VERTEX obtained deed records for the subject site.	None
Orange County Fire Authority	VERTEX requested records pertaining to USTs and hazardous materials. A response is pending.	None
Orange County Health Care Agency	VERTEX requested records pertaining to USTs and hazardous materials. A response is pending.	None
City of Santa Ana Planning Department	VERTEX reviewed available permits for the site. The current site buildings were permitted in 1994.	None
City of Santa Ana Municipal Utility Service	VERTEX was informed water and sewer for the site is provided by the City of Santa. An initial connection date was not available.	NA
Regional Water Quality Control Board (RWQCB)	No records were found for the site. VERTEX reviewed records for nearby surrounding properties on the RWQCB's GeoTracker website.	None

7.0 SITE RECONNAISSANCE

VERTEX representative Mark Jirgal, Senior Project Manager, conducted a site visit on March 11, 2015 between 9:20 a.m. and 10:20 a.m. Ms. Sandra Victoria, Store Manager with Extra Space Storage, escorted VERTEX during the site visit and answered questions regarding site operations.

During the site visit, the weather was overcast with a temperature of approximately 69^{o} Fahrenheit. The site visit consisted of a walk-through of the site and visual reconnaissance of neighboring properties from curbside. Photographic documentation of the site visit is included in Appendix A.

7.1 Access Restrictions

VERTEX visually and physically observed accessible areas of the site. At the time of VERTEX's visit, Ms. Victoria did not have the keys to the apartment; therefore, the interior of the on-site manager's apartment was not observed. Representative interior and exterior areas of the site buildings were observed. No limitations imposed by physical obstructions or other limiting conditions were observed, except for access to the on-site manager's apartment and leased storage units.

7.2 Site Observations

Observations of site conditions were made during the site reconnaissance and are summarized in the table below. Issues of concern are discussed in greater detail following the table.

SITE OBSERVATIONS		
DESCRIPTION	**REPORTED/ OBSERVED ON-SITE Y/N**	**COMMENTS**
Significant Quantities of Hazardous Substances and Petroleum Products	N	The site currently utilizes small quantities of janitorial cleaning chemicals and maintenance supplies stored in a dedicated storage unit. No environmental concerns were noted.
UST(s)	N	VERTEX did not observe fill pipes, vent pipes, or other evidence of UST(s). VERTEX did not observe operations or equipment that are typically associated with significant fuel or chemical storage that typically utilizes USTs.
AST(s)	N	VERTEX did not observe evidence of AST(s). VERTEX did not observe operations or equipment that are typically associated with significant fuel or chemical storage that typically utilizes ASTs.
Strong, Pungent, or Noxious Odors	N	Not identified during the site visit.
Pools of Liquid	N	Not identified during the site visit.
Drums	N	Not identified during the site visit.
Unidentified Substance Containers	N	None
Polychlorinated Biphenyls (PCB)-containing Equipment	N	No transformers were noted on-site.
Utilities (Electricity/ Natural Gas)	Y	Electricity – supplied by Southern California Edison Natural gas – supplied by the Gas Company
Hydraulic Equipment	N	Not identified during the site visit.
Water Supply	Y	Water is supplied to the site by the City of Santa Ana Municipal Utility Service. A connection date was not available.
Wells	N	On-site water extraction or groundwater monitoring wells were not identified or reported.
Wastewater	Y	Wastewater discharges from the site are limited to domestic discharges with no indicated process/industrial type discharges. Sewer service is provided to the site by the City of Santa Ana Municipal Utility Service. A connection date was not available.
Septic	N	Not identified during the site visit.
Stormwater	Y	Stormwater at the site is generally diverted to the south and flows off the site onto North Standard Avenue to the southwest and to an off-site culvert located just south of the site. No storm drains were observed on site.
Flood Plain	N	According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM), the site is not located within the 100- or 500-year flood zones.
Pits, Ponds, Lagoons	N	Not identified during the site visit.

SITE OBSERVATIONS		
DESCRIPTION	**REPORTED/ OBSERVED ON-SITE Y/N**	**COMMENTS**
Stained Soil, Stained Pavement, Corrosion to Pavement	N	Not identified during the site visit.
Stressed Vegetation	N	Not identified during the site visit.
Solid Waste	Y	The site currently maintains one solid waste dumpster that is serviced by Waste Management. Additional waste streams were not identified. The dumpster sits on concrete pavement within a locked enclosure. No evidence of staining was observed in the vicinity of the dumpster.
Hazardous Waste Management	N	None
Heating/Cooling	Y	The apartment and office building are heated and cooled by natural gas and electric powered systems.
Drains, Sumps, Oil/Water Separators/Sand Traps	N	VERTEX did not observe drains, sumps, or oil/water separators at the site.
Vapor Intrusion	N	As part of this assessment, VERTEX assessed the potential for impacts to the site from potential on- and off-site sources of vapor intrusion. The potential for impacts from off-site properties included a review of current off-site operations (see Section 2.4), a review of historical operations (see Section 5.2), and a review of regulatory database records (see Section 6.2). Potential sources of on- or off-site vapor intrusion were not identified.

8.0 DATA GAPS

At the time of VERTEX's visit the interior of the on-site manager's apartment was not observed due to lack of access; however, given the age of the site buildings and because typical observations within on-site manager's apartments typically are not necessary to identifying RECs at a site, VERTEX does not consider this to be a significant data gap. Significant data gaps that would affect VERTEX's ability to identify RECs at the site were not encountered during this assessment. No deviations or deletions from the scope of work defined by ASTM E 1527-13 were intentionally made.

Our conclusions regarding the potential environmental impact of nearby, off-site facilities on the site are based on readily available information from the environmental databases and the assumed groundwater flow direction as inferred from the topography of the site and surrounding area. A detailed file review of each facility was beyond the scope of work. VERTEX reviewed select records available on GeoTracker for off-site release cases.

9.0 ADDITIONAL SERVICES

The following additional (non-ASTM) services were performed as part of this assessment.

9.1 Asbestos-Containing Materials (ACMs)

Based on the date of construction (1995), ACMs are not expected to be located at the site. However, ACMs may still be found in some non-friable materials and if discovered during work that will disturb these materials, must be handled in accordance with the National Emission Standard for Hazardous Air Pollutants (NESHAP) and other applicable local, state, and federal regulations.

9.2 Lead-Based Paint (LBP)

Based on the date of construction (1995), and the fact that LBP was not used in the construction of buildings during the mid-1990s, it is unlikely that LBP is present at the site. LBP therefore is not considered a concern to this investigation.

10.0 CONCLUSIONS AND RECOMMENDATIONS

VERTEX has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, of the Extra Space Storage facility located at 1030 East 4th Street, Santa Ana, California. Exceptions to, or deletions from, this practice are described in Section 8.0 of this report. This assessment has revealed no evidence of RECs in connection with the site. Therefore, no additional investigation is recommended at this time.

11.0 SCOPE AND LIMITATIONS

11.1 Purpose

The primary purpose of this assessment is to identify, to the extent feasible pursuant to the processes prescribed in ASTM E 1527-13, RECs in connection with the site. As defined in ASTM E 1527-13, a REC is "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." It does not include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A "historical REC" is defined in ASTM E 1527-13 as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)." ASTM E 1527-13 defines the term "controlled REC" as "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls)."

In conducting this assessment, VERTEX followed ASTM E 1527-13, as well as the U.S. Environmental Protections Agency's All Appropriate Inquires (AAI) Final Rule of November 1, 2005 as amended December 30, 2013. Any exceptions to, or deletions from, this practice are described in Section 8.0 of the report. ASTM defines good commercial and customary practice for conducting an ESA of a parcel of commercial real estate with respect to the range of

contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. 9601) and petroleum products. Therefore, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. The practice constitutes "all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices" as defined at 42 U.S.C. 9601(35)(B).

As part of ASTM E 1527-13, Phase I ESAs must be conducted by or under the supervision of a qualified Environmental Professional. The AAI Final Rule defines an Environmental Professional as someone who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors of the rule. We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 C.F.R. 312.10. We have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the site. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

11.2 Detailed Scope-of-Services

As part of this Phase I ESA, and in accordance with the provisions of ASTM E 1527-13, VERTEX performed a visual reconnaissance of the site, noted use of adjoining properties, and conducted historical and regulatory records research. The following provides a more detailed description of the scope of services:

- Visual inspection of the site building(s), if present, and grounds to identify potential for on-site petroleum or hazardous material release(s).

- Visual inspection and categorization of the use of abutting and adjoining properties as potential off-site sources of petroleum or hazardous material contamination to the site.

- Review of readily available state and federal regulatory records related to on-site activities and to potential off-site activities to identify sources of petroleum or hazardous material contamination to the site.

- Review of readily available historical information to assess for potential on-site and off-site sources of petroleum or hazardous material contamination to the site.

- Review of readily available local records related to historical site ownership, usage, and development. This includes obtaining information from local environmental authorities to identify complaints, violations, citations, inspections, environmental liens, activity and use limitations (AULs), or institutional and engineering controls related to the site.

- Review of readily available documents and other resources for the site and site vicinity to evaluate current and historical development and renovation activities.

- Visual assessment for suspect Polychlorinated Biphenyl (PCB) containing equipment, e.g., transformers, elevators. Please note, this scope of work does not include an evaluation for or testing of suspect PCBs in building materials such as caulking, mastic/adhesives, oil-based paints, coatings and sealants. Currently, there are no regulatory requirements to test in-place building materials for the presence of PCBs. Although testing is not required for in place materials, owners are required to know the content of the waste streams that they generate and potentially sign waste profiles prior to disposal facility acceptance. Therefore, if renovation or demolition activities are to be conducted at the site that will result in the generation of demolition debris, a contractor or waste disposal facility may request certification of knowledge of the waste stream or testing to determine if the material(s) contain PCBs for proper handling and disposal purposes. VERTEX can further discuss this issue and provide a proposal for testing and analysis for PCBs if requested.

- Visual inspection of the accessible areas of the site and review of readily available public records to assess the presence or absence of the following ASTM E 1527-13 non-scope considerations: ACMs, and LBP.

- Preparation of a Phase I ESA report.

11.3 Significant Assumptions

Information obtained from the Client, the Client's representative, site representatives, individuals interviewed, and prior environmental reports is considered to be accurate unless VERTEX's reasonable inquiries clearly revealed otherwise.

Conditions observed were considered to be representative of areas that were not observed unless otherwise indicated.

The primary direction of groundwater flow is assumed to follow topography, unless otherwise indicated by measurement of the potentiometric surface or other quantifiable data.

VERTEX reviewed reasonably ascertainable public records with respect to past operations and ownership of the site in an attempt to determine past site usage. VERTEX is not a professional title insurance firm and makes no guarantee, express or implied, that the listing reviewed represented a comprehensive delineation of past site ownership or tenancy for legal purposes. The accuracy and completeness of information maintained in public records by public agencies or other entities is assumed to be sufficient for the purposes of this Phase I ESA, and independent verification of its validity is beyond the scope of this investigation.

11.4 Limitations and Exceptions

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. The findings within this ESA utilized information that was practically

reviewable per ASTM Practice E 1527-13, meaning that only relevant data relating to the subject site has been incorporated into the findings, disregarding extraordinary analysis of irrelevant data. The investigation conducted for this ESA was limited to data that were reasonably ascertainable, meaning that the information was publicly available, obtainable within the cost and time constraints under the scope of services for this project, and practically available. VERTEX is not responsible for the independent conclusions, opinions, or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Subsurface conditions were not field-investigated as part of this study and may differ from the conditions implied by the surficial observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. VERTEX does not warrant against future operations or conditions, or against operations or conditions present of a type or at a location not investigated. VERTEX does not assume responsibility for other environmental issues that may be associated with the subject site.

This study is not intended to assess or otherwise determine if soil contamination, waste emplacement, or groundwater contamination exists. These data are accessible only by sampling of subsurface material and groundwater through the completion of soil borings and the installation of monitoring wells and the chemical analyses of soil and groundwater samples. The scope of work, determined by the client, did not include these activities.

In view of the rapidly changing status of environmental laws, regulations and guidelines, VERTEX cannot be responsible for changes in laws, regulations, or guidelines that occur after the study has been completed and that may affect the subject site.

It must be noted that no investigation can absolutely rule out the existence of hazardous materials at a given site. This assessment has been based upon prior site history and observable conditions. Existing hazardous materials and contaminants can escape detection using these methods.

Significant data gaps or accessibility limitations that would affect VERTEX's ability to identify RECs at the site are discussed in Section 8.0.

While VERTEX may comment on environmental compliance matters that fall under the scope of this assessment, this study does not constitute a regulatory compliance audit, and does not document compliance with applicable state, federal, or local regulations.

11.5 Special Terms and Conditions

No special Terms and Conditions were agreed upon between the User and the Environmental Professional.

11.6 User Reliance

This report is for the exclusive use of Extra Space Storage LLC and its insurers, counsel and accountants. Use of this report by any other party shall be at such party's sole risk.

12.0 REFERENCES

Agencies Contacted/Records Reviewed:

Orange County Assessor's Office: Property records

Orange County Recorder's Office: Deed records

Orange County Fire Authority: Records pertaining to USTs and hazardous materials

Orange County Health Care Agency: Records pertaining to USTs and hazardous materials

City of Santa Ana Planning Department: Building permits

City of Santa Ana Municipal Utility Service: Water and sewer provider

Regional Water Quality Control Board (RWQCB): Records of site investigation and cleanup

Prior Reports Reviewed:

Report of Foundation Investigation prepared by Law/Crandall, Inc. for Rail Pacific, Inc., dated August 4, 1992.

Phase I Environmental Site Assessment Report, prepared by Secor International Incorporated for GE Real Estate and North American Debt, dated July 11, 2005.

Phase I Environmental Site Assessment and Phase II Limited Subsurface Investigation, prepared by VERTEX Environmental Services, Inc. for Extra Space Storage LLC, dated June 28, 2013.

Other Documents Reviewed:

EDR Database Report, March 9, 2015

Aerial photographs from EDR, dated 1938, 1947, 1953, 1960, 1968, 1977, 1990, 1994/1995, 2005, 2009, 2010, and 2012.

Topographic maps from EDR, dated 1901, 1902, 1935, 1942, 1948, 1965, 1972, and 1981.

City Directories from EDR, dated 1920 through 2012.

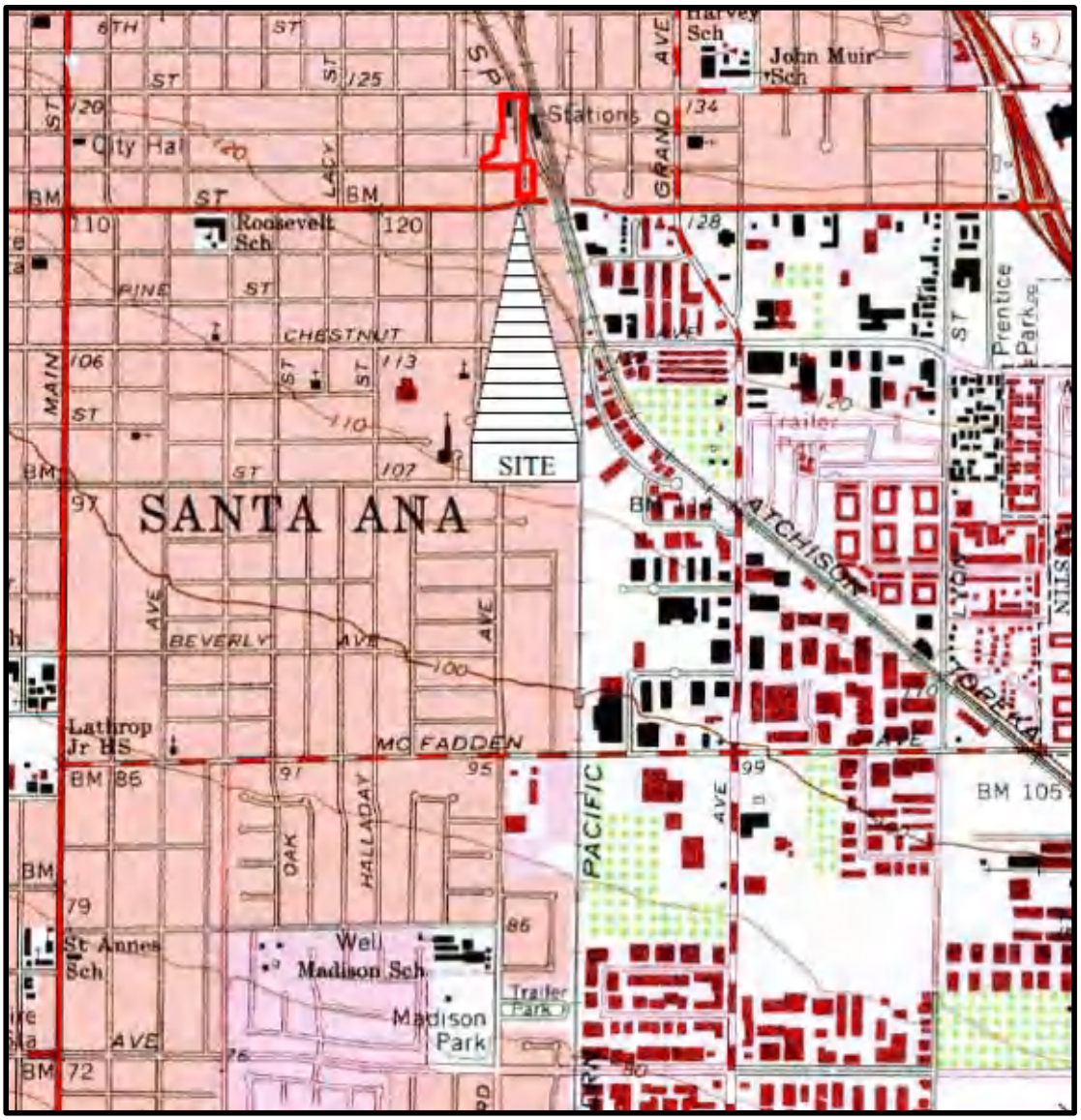
Semi-Annual Groundwater Monitoring Report, Second Quarter 2009, G&M Oil Company Station No. 49, Leighton Consulting, Inc., dated June 2, 2009

Determination of a Southern California Regional Background Arsenic Concentration in Soil, G. Chernoff, W.Bosan and D. Oudiz, Department of Toxic Substances Control

Interviews:

Ms. Sandra Victoria, Store Manager, Extra Space Storage

FIGURES



USGS Topographic Map, 1981
Tustin, CA Quadrangle
Contour Interval: 5 Feet

SITE LOCUS MAP

Extra Space Storage; Site #1536
1030 East 4th Street
Santa Ana, California

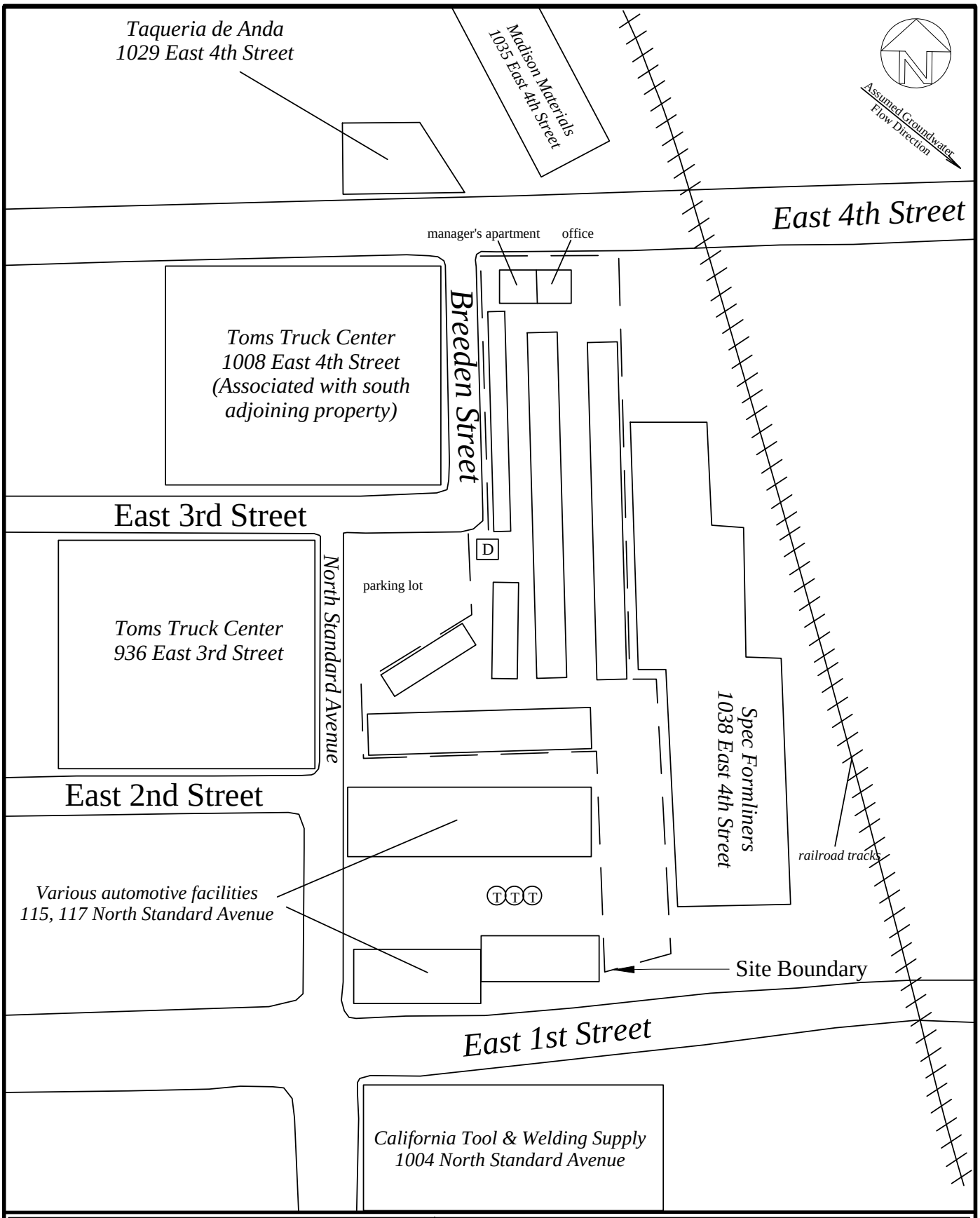
SCALE: 1:24,000

March 2015

VERTEX Proj. No. 32668

VERTEX

FIGURE NO. 1



SITE SCHEMATIC Extra Space Storage; Site #1536 1030 East 4th Street Santa Ana, California	SCALE: NOT TO SCALE March 2015 VERTEX Proj. No. 32668	VERTEX **FIGURE NO. 2**

APPENDIX A:

PHOTOGRAPHIC DOCUMENTATION

Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 1 **Description:** Photo depicts typical storage buildings and entrances to larger storage units. Gutters were in the process of being cleaned at the time of the site visit. Photo looking south.	

Photograph: 2 **Description:** Photo depicts adjacent building to the east and the recreational vehicle storage area on the southern portion of the site. Photo looking southeast.	

Photographs taken by Mark Jirgal on March 11, 2015

Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 3 **Description:** Photo depicts typical interior of larger storage unit.	

Photograph: 4 **Description:** Photo depicts interior of storage unit utilized for storage of various maintenance materials including common cleaners and paint.	

Photographs taken by Mark Jirgal on March 11, 2015

Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 5 **Description:** Photo depicts interior hallway leading to smaller storage units.	

Photograph: 6 **Description:** Photo depicts interior of smaller storage unit.	

Photographs taken by Mark Jirgal on March 11, 2015

Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 7 **Description:** Photo depicts trash dumpster area.	

Photograph: 8 **Description:** Photo depicts southern border of site and drainage culvert south of site. Photo looking west-southwest.	

Photographs taken by Mark Jirgal on March 11, 2015

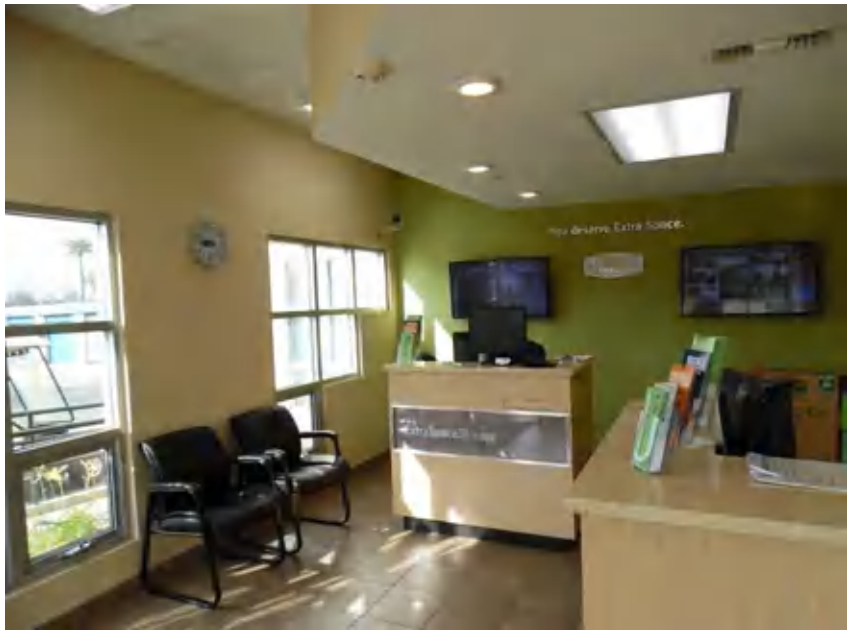
Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 9 **Description:** Photo depicts metal roof of storage building while gutters are being cleaned. Photo looking south.	

Photograph: 10 **Description:** Photo depicts bathroom within office building.	

Photographs taken by Mark Jirgal on March 11, 2015

Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 11 **Description:** Photo depicts interior of office building.	

Photograph: 12 **Description:** Photo depicts eastern border of site, looking south, with Spec Formliners (1038 East 4th Street) on left and site on right.	

Photographs taken by Mark Jirgal on March 11, 2015

Photographic Documentation
Extra Space Storage
1030 East 4th Street
Santa Ana, CA
Project No. 32668

Photograph: 13 **Description:** Photo depicts southern portion of site used for recreational vehicle storage and adjacent automotive repair facilities (115 and 117 North Standard Road) to the southwest. Photo looking southwest.	

Photograph: 14 **Description:** Photo depicts Tom's Truck Center (936 East 3rd Street) located west of the site across North Standard Avenue. Photo looking west-northwest.	

Photographs taken by Mark Jirgal on March 11, 2015

APPENDIX B:

RELEVANT DOCUMENTS

LAW/CRANDALL, INC.

geotechnical, environmental & construction materials consultants

REPORT OF

FOUNDATION INVESTIGATION

PROPOSED ALL ABOARD MINI STORAGE

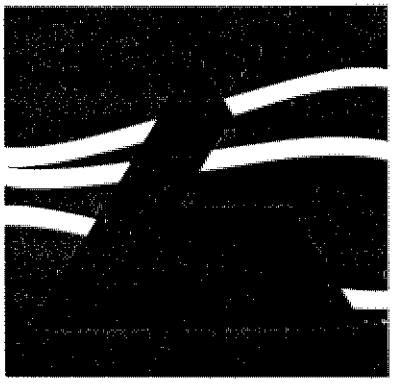
BETWEEN FIRST AND FOURTH STREETS AND

WEST OF THE SANTA FE RAILROAD DEPOT GROUNDS

SANTA ANA, CALIFORNIA

S92062.AO

AUGUST 4, 1992



LAW/CRANDALL, INC. ▲ geotechnical, environmental & construction materials consultants
10037 Barnes Canyon Road, Suite A, San Diego, California 92121, Phone (619) 458-9379, Fax (619) 458-0541
Los Angeles ▲ Anaheim ▲ Los Alamitos ▲ Marina del Rey ▲ Riverside ▲ San Diego

August 4, 1992

Mr. Michael Selby
Rail Pacific, Inc.
990 Highland Drive, Suite 300
Solana Beach, California 92075

(S92062.AO)

Dear Mr. Selby:

We are pleased to present our "Report of Foundation Investigation, Proposed All Aboard Mini Storage, Between First and Fourth Streets and West of the Santa Fe Railroad Depot Grounds, Santa Ana, California." We were advised of the features of the development with Mr. Jim Barney of Jordan Valli Architects, Inc., who also provided us with a site plan showing the location of the proposed buildings.

The results of our investigation are presented in the report, along with recommendations for grading, foundation design, and floor slab support for the proposed buildings. Recommendations for paving design for automobile and truck traffic areas are also included.

Please call us if you have any questions or if we can be of further service to you on this or future projects.

Respectfully submitted,

LAW/CRANDALL INC.

Susana Kemmerrer, RCE 43832
Project Engineer

REGISTERED PROFESSIONAL ENGINEER
SUSANA KEMMERRER
No. 43832
Exp. 6-30-93
CIVIL
STATE OF CALIFORNIA

John R. Theissen, GE 825
Chief Engineer
Manager, Geotechnical Engineering

REGISTERED PROFESSIONAL ENGINEER
JOHN ROBERT THEISSEN
No. 825
Exp. 3-31-94
GEOTECHNICAL
STATE OF CALIFORNIA

GR/SK
(3 copies submitted)

REPORT OF

FOUNDATION INVESTIGATION

PROPOSED ALL ABOARD MINI STORAGE

BETWEEN FIRST AND FOURTH STREETS AND

WEST OF THE SANTA FE RAILROAD DEPOT GROUNDS

SANTA ANA, CALIFORNIA

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Appendix - Explorations and Testing

Plates	Plate No.
Plot Plan	1
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Unified Soil Classification System	A-2
Direct Shear Test Data	A-3
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1.0 SUMMARY

A foundation investigation has been conducted for the proposed storage facility to be located between First and Fourth Streets and west of the Santa Fe Railroad Depot grounds, in Santa Ana, California.

The proposed facility will consist of four one-story storage buildings and a two-story manager's unit and office building. The property is currently undeveloped and relatively level.

Fill soils to ½ foot in thickness were encountered in one of the borings. These fills consist of silty gravel. The natural soils beneath the site consist of silty sand, silt and sand. The natural soils are moderately firm and medium dense at their present moisture content, but they will loose strength when wetted. Water was not encountered within the depth drilled.

As encountered, the existing natural soils are moderately firm, but will loose strength when wetted. At their present condition, the natural soils are not considered suitable for support of foundations, floor slabs, or paving. Accordingly, we recommend that the upper natural soils be removed and replaced with properly compacted fill. If the grading recommendations are followed, the proposed structures may be established in the resulting compacted fill soils.

* * * * *

2.0 SCOPE

This report presents the results of a foundation investigation performed to provide design criteria for the subject proposed storage facility. The locations of the proposed structures and of our exploratory borings are shown on Plate 1, Plot Plan.

This investigation was authorized to determine the physical characteristics of the soils at selected locations and to provide recommendations for grading, for design of foundations and floor slab support for the proposed buildings, and for paving design. More specifically, the scope of the investigation included the following objectives.

- To evaluate the existing surface and subsurface conditions, including the soil and ground water conditions, within the area of proposed construction
- To recommend alternative foundation systems together with the associated design parameters
- To provide recommendations for floor slab support
- To provide pavement thickness recommendations
- To present general recommendations concerning construction procedures and quality control measures relating to earthwork

Our recommendations are based on the results of our field explorations and laboratory tests and associated engineering analyses. The results of the field explorations and laboratory tests are presented in the Appendix.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical consultants practicing in this or similar localities. *No other warranty, expressed or implied, is made as to the professional advice included in this report.* This report has been prepared for Rail Pacific, Inc., and their consultants to be used solely in the evaluation of the subject project. The report has not been prepared for use by other parties, and may not contain sufficient information for purposes of other parties or other uses.

3.0 STRUCTURAL INFORMATION

The proposed storage facility will consist of four single-story storage buildings and a two-story manager's unit and office building. The storage buildings will be of steel frame construction and the managers's unit and office building of wood frame and stucco construction. We were informed that maximum column loads are expected to be on the order of 7,000 pounds. Wall loads will be about 2,000 pounds per lineal foot. The proposed buildings will be established at about the existing grade.

Paved parking areas and driveways are also planned. Recreational Vehicle (RV) parking and storage area are also planned on the southeast portion of the site.

4.0 SITE CONDITIONS

The proposed storage facility will be located west of Santa Fe Railroad Depot grounds, between First and Fourth Streets in Santa Ana, California.

The site is generally flat. Most of the site is undeveloped. The southwest portion of the site is currently occupied by Liberty Hard Woods, wood storage sheds, and an office building. These structures will be demolished during clearing operations of the site. The remainder of the site is currently vacant.

5.0 SOIL CONDITIONS

Fill soils to ½ foot in thickness were encountered in one of the borings. These soils consist of silty gravel. Deeper and/or poorer quality fill may be encountered between the boring locations.

The natural soils beneath the site consist of silty sand, silt and sand. The sandy soils are medium dense to dense, the silt soils are only moderately firm at their present moisture content. The silt soils will loose strength when wetted. Water was not encountered within the depth explored.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 GENERAL

The on-site natural soils are moderately firm and medium dense at their present moisture content, but they will loose strength when wetted. At their present condition, the on-site natural soils are not considered suitable for foundation and floor slab support. If the grading recommendations are followed, the proposed buildings may be supported on compacted fill.

We recommend overexcavation and placement of at least 2 feet of fill beneath the footings and at least 1 foot of compacted fill beneath the floor slabs and areas to be paved.

6.2 FOUNDATIONS

Bearing Value

Spread footings established on properly compacted fill may be designed to impose a net dead plus live load pressure of 2,000 pounds per square foot. A one-third increase in the bearing value may be used for wind or seismic loads. Exterior footings should extend to a depth of at least 2 feet below the adjacent final grade. Interior footings should extend to a depth of at least 1½ feet below the top of the adjacent floor slab. Since the recommended bearing value is a net value, the weight of the concrete in the footings may be taken as equal to 50 pounds per cubic foot, and the weight of the soil backfill may be neglected.

While the actual bearing value of the compacted fill will depend on the material used and the compaction methods employed, the quoted value will be applicable if the soils recommended in this report are used and are compacted as recommended. The bearing value of the fill should be confirmed after completion of the grading.

Settlement

Settlement of the proposed buildings supported in the manner recommended are expected to be on the order of ¼ inch. Differential settlement is not expected to be greater than ¼ inch.

Lateral Loads

Lateral loads may be resisted by soil friction and by the passive resistance of the soils. A coefficient of friction of 0.4 may be used between footings or the floor slabs on grade and the supporting compacted fill soils. The passive resistance of the compacted fill soils against footings may be assumed to be equal to the pressure developed by a fluid with a density of 300 pounds per cubic foot. The frictional resistance and the passive resistance of the soils may be combined without reduction in determining the total lateral resistance.

Footing Observation

To verify the presence of satisfactory soils at design elevations, all footing excavations should be observed by personnel of our firm. Footing excavations should be cleaned of any loosened soil and debris before placing steel or concrete. Footing excavations should be observed and probed for soft areas. Any soft or loose soils should be removed and replaced as properly compacted fill.

All applicable requirements of the California Construction and General Industry Safety Orders, the Occupational Safety and Health Act of 1970, and the Construction Safety Act should be met. Inspection of footing excavations may be required by the appropriate reviewing governmental agencies. The contractor should be familiar with the inspection requirements of the reviewing agencies.

6.3 BACKFILL

The on-site natural soils, less any debris or organic material, may be used in the required fills. All required footing backfill and utility trench backfill should be mechanically compacted. Flooding should not be permitted. The exterior grades should be sloped to drain away from the structures to minimize ponding of water adjacent to the foundations. Proper compaction of the backfill will be necessary to minimize settlement of the backfill and consequent settlement of the overlying walks, paving, and utilities.

Some settlement of the backfill should be anticipated, and any utilities supported therein should be designed to accept differential settlement, particularly at the points of entry to the building. Also, provisions should be made for some settlement of concrete walks on-grade supported on fill.

6.4 GRADING

General

The proposed storage facility will be established at approximately the existing grade. To provide support for spread footings, building floor slabs, and pavement, any unsuitable materials should be removed and replaced by compacted fill. A minimum of 2 feet of compacted fill beneath the footings and at least 1 foot beneath floor slabs and pavement should be provided. Such fill should extend at least 5 feet beyond structures and adjacent walls and slabs in plan.

Site Preparation and Compaction

After clearing the site, the on-site materials should be excavated as recommended. After excavating and prior to placement of any compacted fill, the exposed soils should be carefully inspected to verify the removal of unsuitable deposits. Next, the exposed soils should be proofrolled with heavy compaction equipment to disclose areas of soft or yielding subgrade. Such materials should also be removed. Next the exposed soils should be scarified to a depth of 6 inches and compacted to at least 90% of the maximum density obtainable by the ASTM Designation D1557-91 method of compaction. After inspecting and compacting the exposed soils, the required fill should be placed in horizontal lifts not more than 8 inches in thickness and compacted to at least 90%. The soils should be compacted at a moisture content varying no more than 2% above or below optimum moisture content.

Material For Fill

The on-site soils, less debris and organic material, may be used in the required fills. Any required imported fill should consist of relatively non-expansive soils with an Expansion Index of less than 35. Any import material should contain sufficient fines (binder material) so as to provide a compacted fill which will be relatively impermeable and which will be stable in shallow trenches.

Grading Observation

The excavation of the upper soils and the compaction of all required fill should be observed and tested by our firm. All applicable requirements of the California Construction and General Industry Safety Orders, the Occupational Safety and Health Act of 1970, and the Construction Safety Act should be met.

The governmental agencies having jurisdiction over the project should be notified prior to commencement of grading so that the necessary grading permits may be obtained and arrangements made for the required inspection.

6.5 FLOOR SLAB SUPPORT

If the subgrade is prepared as recommended, the building floor slabs and other concrete walks and slabs may be supported on-grade. The required thickness and reinforcing of the concrete slabs will depend on the imposed loadings as well as the structural characteristics of the concrete. For design of concrete slabs supported on the recommended compacted fill soils, a modulus of subgrade reaction (k) of 150 pounds per cubic inch may be used. To provide protection against vapor and water transmission through the building floor slabs, we recommend that the floor slabs be underlain by a layer of Caltrans Class 2 permeable material or crushed rock at least 4 inches thick. A suggested gradation for the rock layer would be as follows:

Sieve Size	Percent Passing
3/4"	90 - 100
No. 4	0 - 10
No. 100	0 - 3

For areas where moisture-sensitive floor covering is planned or where moisture sensitive tenant materials might be stored, we recommend that the gravel layer be overlain by a 10-mil impermeable plastic membrane to provide additional protection against water vapor transmission through the slab. The vapor barrier should be installed in accordance with the manufacturers instructions. We recommend that at least a 2-foot lap be provided at the membrane edges or that the edges be sealed.

To protect the membrane during later concrete work and to facilitate curing of the concrete and reduce slab curling, a 2-inch-thick, clean-sand bedding may be placed over the membrane. If this sand bedding is used, care should be taken during concrete placement to prevent displacement of the sand. A low-slump concrete (4-inch maximum slump) should be used to further minimize possible curling of the slabs. The concrete slabs should be allowed to cure properly before placing vinyl or other moisture-sensitive floor covering.

7.0 PAVING

A California Bearing Ratio (CBR) test was performed on a composite sample of the upper natural soils. CBR values of 3 and 5 at 90 and 95% compaction, respectively, were obtained. The results of the test is presented in the Appendix.

To provide support for paving, the subgrade soils should be prepared as recommended in the previous section on Grading. Compaction of the subgrade to at least 90%, including trench backfills, will be important for paving support. The preparation of the paving subgrade should be done immediately prior to the placement of the base course. Adequate drainage of the paved surface must be provided to reduce infiltration of water into the subgrade soils.

The required paving thickness and base thickness will depend on the subgrade soils and on the Traffic Index applicable to the intended usage. For purposes of pavement design, it was assumed that the on-site soils compacted as recommended will be used as the supporting subgrade. As an option, design thicknesses for a subgrade soil consisting of non-expansive imported soil with a CBR of at least 10, are also provided. These values should be confirmed prior to construction so that any required modifications may be made based on testing of the actual materials to be used.

Paving sections have been estimated for the subgrade options described based on assumed Traffic Indexes of 5 for parking areas, and of 6 (assuming light commercial truck traffic) for driveways and loading areas. These paving sections were established based on the Orange County Design Method.

Subgrade Option	Assumed Traffic Index	Paving Section
Existing Soils (CBR - 2)	5	3 inches Asphalt Paving; 8 inches Base Course
	6	4 inches Asphalt Paving; 10 inches Base Course
Non-Expansive Fill (CBR - 10)	5	3 inches Asphalt Paving; 4 inches Base Course
	6	4 inches Asphalt Paving; 5 inches Base Course

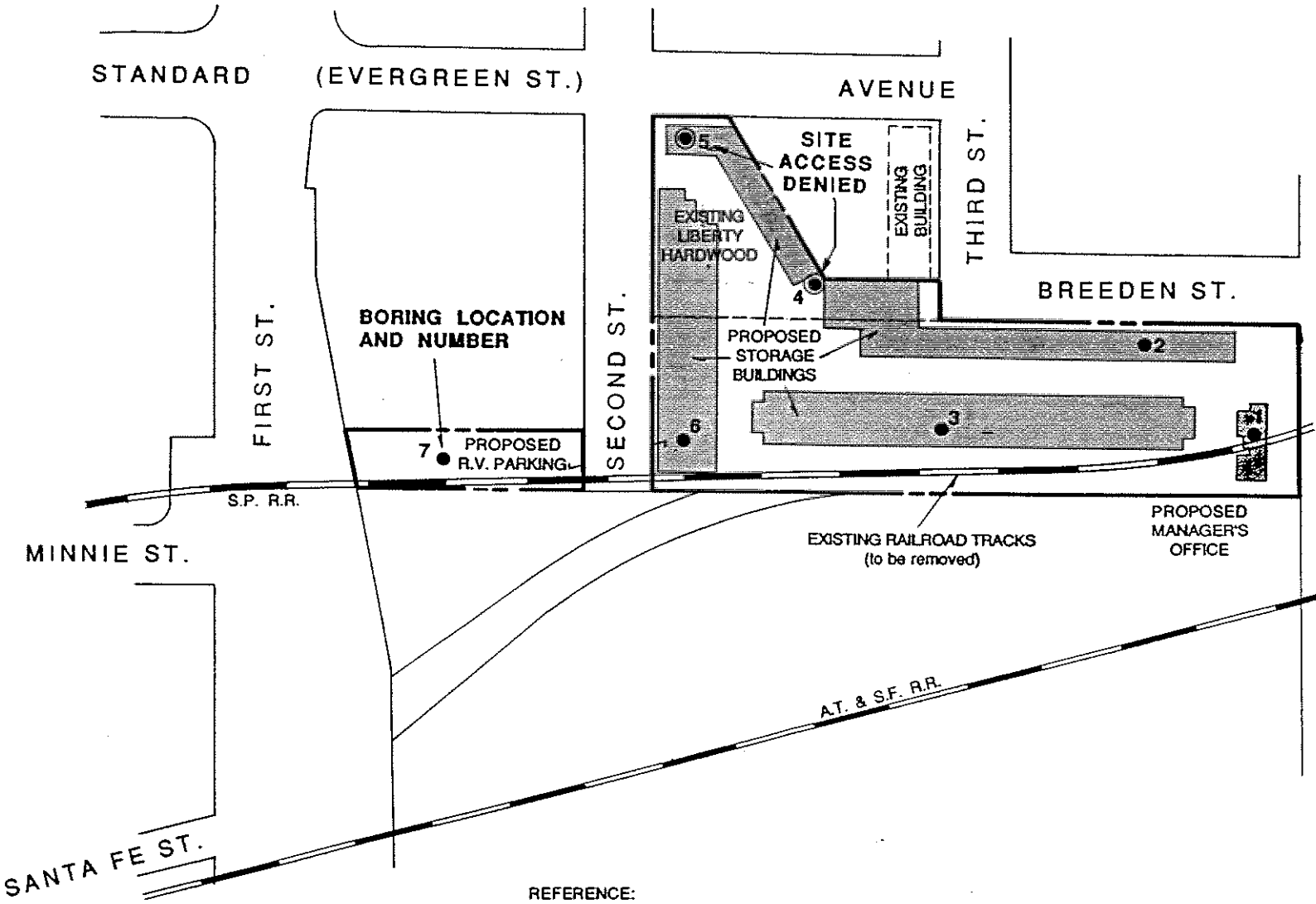
The base course should meet the specifications for Class 2 Aggregate Base as defined in Section 26 of the State of California, Department of Transportation, Standard Specifications, dated January 1988. Alternatively, the base course could meet the specifications for untreated base as defined in Section 200-2 of the 1991 edition of the Standard Specifications for Public Works Construction. The base course should be compacted to at least 95%. Careful inspection is recommended to verify that the recommended thicknesses or greater are achieved and that proper construction procedures are used.

8.0 BASIS FOR RECOMMENDATIONS

The recommendations provided in this report are based on our understanding of the described project information and on our interpretation of the data collected during the subsurface exploration. We have made our recommendations based on experience with similar subsurface conditions under similar loading conditions. The recommendations apply to the specific project discussed in this report; therefore, any change in building loads, building locations, or site grades should be provided to us so we may review our conclusions and recommendations and make any necessary modifications.

The recommendations provided in this report are also based on the assumption that the necessary geotechnical observations and testing during construction will be performed by representatives of our firm. The field observation services are considered a continuation of the geotechnical investigation and essential to verify that the actual soil conditions are as anticipated. This also provides for the procedure whereby the Client can be advised of unanticipated or changed conditions that would require modifications of our original recommendations. In addition, the presence of our representatives at the site provides the Client with an independent professional opinion regarding the geotechnically related construction procedures. If another firm is retained for the geotechnical observation services, our professional responsibility and liability would be impaired.

-oOo-



REFERENCE:
ASSESSOR'S MAP (DATED 3-82) BY
COUNTY OF ORANGE

PLOT PL

SCALE: 1" = 10(

LAW/CRANDALL,

PL

FORM 137-A

Confined consolidation tests were performed on three undisturbed samples to determine the compressibility of the soils. Water was added to two of the samples during testing to illustrate the effect of moisture on the compressibility. The results of the tests are presented on Plates A-4.1 and A-4.2, Consolidation Test Data.

The optinium moisture content and maximum dry density of the upper soils were determined by performing a compaction test on a composite sample from borings 1 and 2. The test was performed in accordance with the ASTM Designation D1557-91 method of compaction. After completion of the compaction test, a California Bearing Ratio (CBR) test was performed in accordance with the ASTM Designation D1883-87 method. The results are presented on Plate A-5, Compaction and C.B.R. Test Data.

-oOo-

JOB S92062.A0 DATE 7/7/92 F.T. CL BY TBC O.E. TBC CHKD

BORING 1

DATE DRILLED: July 1, 1992
EQUIPMENT USED: 20"- Diameter Bucket

DEPTH (ft.)	MOISTURE (% of dry wt.)	DRY DENSITY (lbs./cu. ft.)	DRIVE ENERGY (ft.-kips/ft.)	SAMPLE LOC.
5	6.6	100	<2	
	10.6	98	<2	
10	9.9	103	3	
15	4.7	93	2	
20	10.7	101	2	
25	6.0	103	5	

FILL - SILTY GRAVEL - greyish brown
SILTY SAND - fine, brown
SANDY SILT - some Clay, dark brown

Brown

Light brown

NOTE: Water not encountered. No caving.

Note : The log of subsurface conditions shown hereon applies only at the specific boring location and at the date indicated. It is not warranted to be representative of subsurface conditions at other locations and times.

LOG OF BORING

LAW/CRANDALL, INC.
PLATE A - 1.1

JOB S92062.A0 DATE 7/7/92 F.T. CL BY TBC O.E. TBC CHKD

Note : The log of subsurface conditions shown hereon applies only at the specific boring location and at the date indicated. It is not warranted to be representative of subsurface conditions at other locations and times.

BORING 2

DATE DRILLED: July 1, 1992
EQUIPMENT USED: 20"- Diameter Bucket

DEPTH (ft.)	MOISTURE (% of dry wt.)	DRY DENSITY (lbs./cu. ft.)	DRIVE ENERGY (ft.-kips/ft.)	SAMPLE LOC.
5	13.4	104	<2	
	15.5	108	<2	
10	13.2	113	5	
15				

3" Asphalt Paving - 4" Base Course
SANDY SILT - dark brown

Brown

NOTE: Water not encountered. No caving.

BORING 3

DATE DRILLED: July 1, 1992
EQUIPMENT USED: 20"- Diameter Bucket

DEPTH (ft.)	MOISTURE (% of dry wt.)	DRY DENSITY (lbs./cu. ft.)	DRIVE ENERGY (ft.-kips/ft.)	SAMPLE LOC.
5	10.5	103	2	
	11.7	105	2	
	10.4	114	3	
10	18.3	96	2	
	23.6	87	2	
15				

2" Asphalt Paving - 6" Base Course
SANDY SILT - dark brown

Some Clay, lenses of Silty Sand, brown

NOTE: Water not encountered. No caving.

LOG OF BORING

LAW/CRANDALL, INC.

PLATE A - 1.2

JOB S92062.A0 DATE 7/7/92 F.T. CL BY TBC O.E. TBC CHKD JC

Note : The log of subsurface conditions shown hereon applies only at the specific boring location and at the date indicated. It is not warranted to be representative of subsurface conditions at other locations and times.

BORING 6

DATE DRILLED: July 1, 1992
EQUIPMENT USED: 20"- Diameter Bucket

DEPTH (ft.)	MOISTURE (% of dry wt.)	DRY DENSITY (lbs./cu. ft.)	DRIVE ENERGY (ft.-kips/ft.)	SAMPLE LOC.
5	15.4	92	<2	
	24.7	90	<2	
	15.5	107	2	
10	2.2	90	3	
	10.4	86	2	
15				

ML — 2" Asphalt Paving - 6" Base Course
SANDY SILT - dark brown

Few Gravel

SP — SAND - medium to coarse, some Gravel (to 3" in size), light greyish brown

SP-SM — SAND, slightly Silty - fine, light brown

NOTE: Water not encountered. Caving from a depth of 7-1/2' to 11'.

BORING 7

DATE DRILLED: July 1, 1992
EQUIPMENT USED: 20"- Diameter Bucket

DEPTH (ft.)	MOISTURE (% of dry wt.)	DRY DENSITY (lbs./cu. ft.)	DRIVE ENERGY (ft.-kips/ft.)	SAMPLE LOC.
5	15.8	105	2	
	12.7	93	<2	
	21.0	94	2	
10				
15				

ML — 9" Base Course
SANDY SILT - dark brown

NOTE: Water not encountered. No caving.

LOG OF BORING

LAW/CRANDALL, INC.

PLATE A - 1.3

MAJOR DIVISIONS			GROUP SYMBOLS		TYPICAL NAMES
COARSE GRAINED SOILS (More than 50% of material is LARGER than No. 200 sieve size)	GRAVELS (More than 50% of coarse fraction is LARGER than the No. 4 sieve size)	CLEAN GRAVELS (Little or no fines)		GW	Well graded gravels, gravel - sand mixtures, little or no fines.
				GP	Poorly graded gravels or gravel - sand mixtures, little or no fines.
		GRAVELS WITH FINES (Appreciable amount of fines)		GM	Silty gravels, gravel - sand - silt mixtures.
				GC	Clayey gravels, gravel - sand - clay mixtures.
	SANDS (More than 50% of coarse fraction is SMALLER than the No. 4 sieve size)	CLEAN SANDS (Little or no fines)		SW	Well graded sands, gravelly sands, little or no fines.
				SP	Poorly graded sands or gravelly sands, little or no fines.
		SANDS WITH FINES (Appreciable amount of fines)		SM	Silty sands, sand - silt mixtures.
				SC	Clayey sands, sand - clay mixtures.
FINE GRAINED SOILS (More than 50% of material is SMALLER than No. 200 sieve size)	SILTS AND CLAYS (Liquid limit LESS than 50)			ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
				OL	Organic silts and organic silty clays of low plasticity.
	SILTS AND CLAYS (Liquid limit GREATER than 50)			MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
				CH	Inorganic clays of high plasticity, fat clays.
				OH	Organic clays of medium to high plasticity, organic silts.
HIGHLY ORGANIC SOILS				Pt	Peat and other highly organic soils.

BOUNDARY CLASSIFICATIONS: Soils possessing characteristics of two groups are designated by combinations of group symbols.

PARTICLE SIZE LIMITS

SILT OR CLAY	SAND			GRAVEL		COBBLES	BOULDERS
	Fine	Medium	Coarse	Fine	Coarse		

No.200 No.40 No.10 No.4 3/4" 3" 12"

U. S. STANDARD SIEVE SIZE

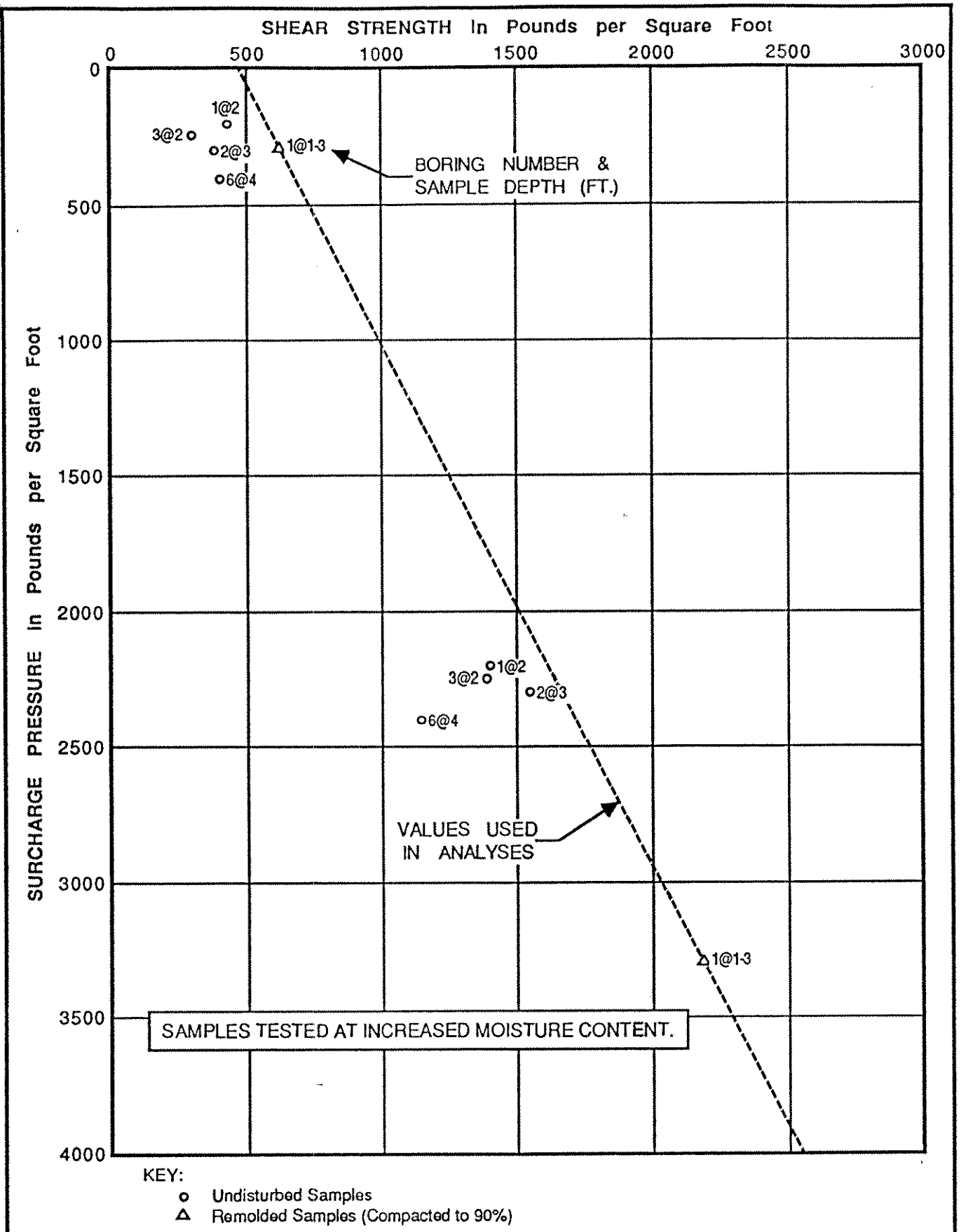
UNIFIED SOIL CLASSIFICATION SYSTEM

Reference:
The Unified Soil Classification System, Corps of Engineers, U.S. Army
Technical Memorandum No. 3-357, Vol. 1, March, 1953 (Revised April, 1960)

LAW/CRANDALL, INC.

PLATE A-2

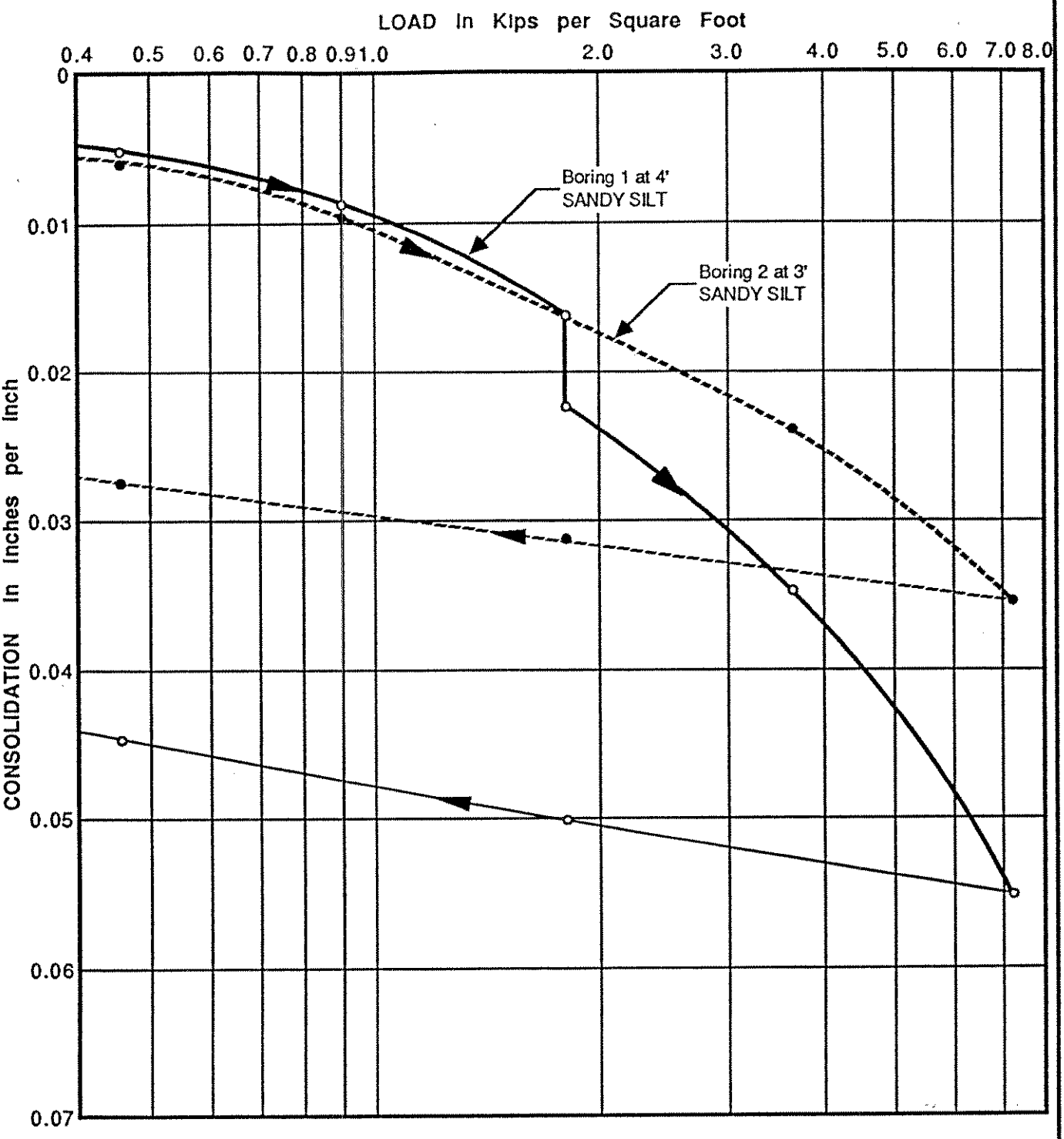
JOB S92062.AO DATE 7/17/92 BY TBC O.E. TBC CHKD



DIRECT SHEAR TEST DATA

LAW/CRANDALL, INC.

PLATE A - 3



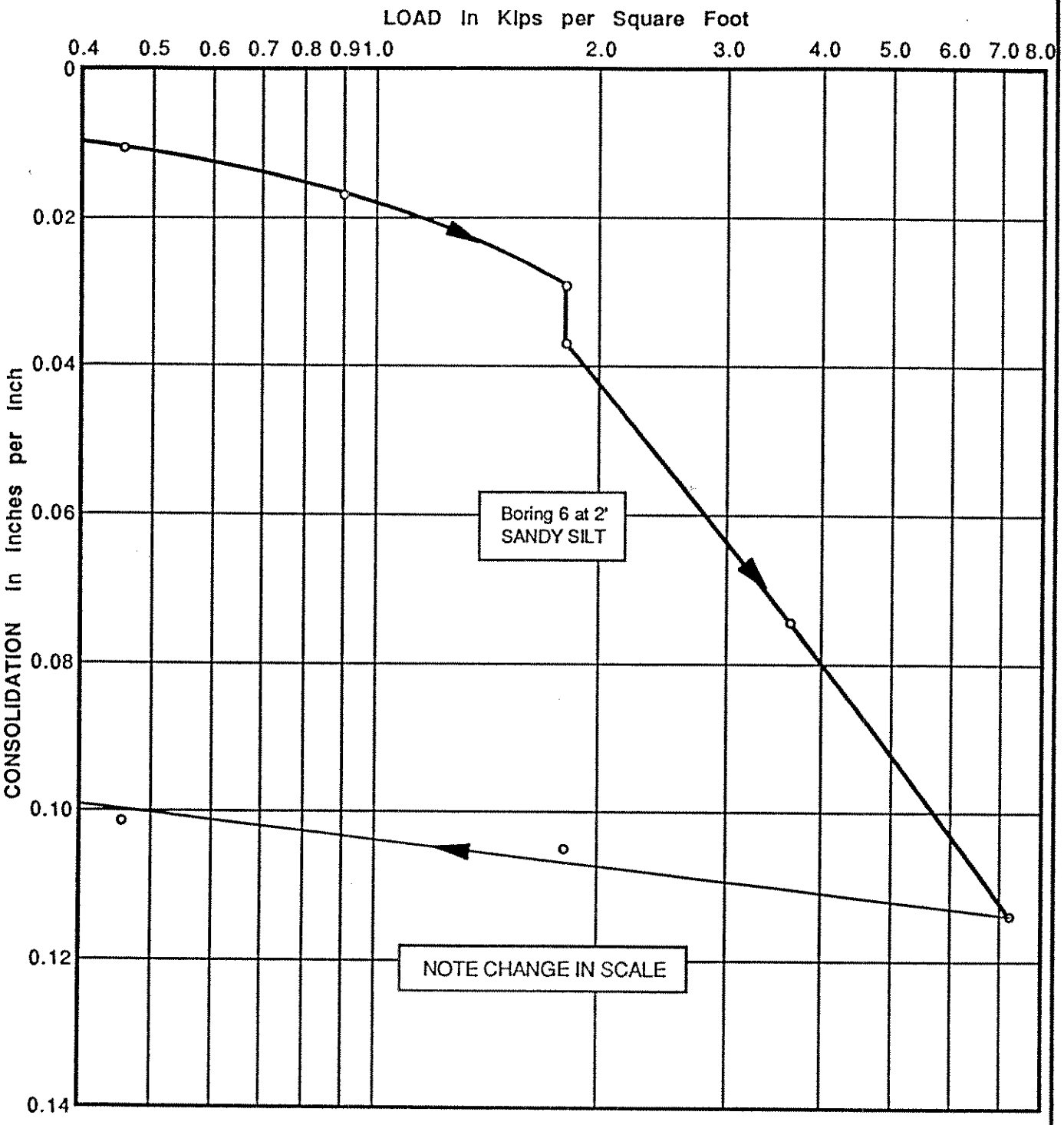
JOB S92062.AO DATE 7/17/92 BY TBC O.E. TBC CHKD JE

NOTE : Water added to sample from Boring 1 after consolidation under a load of 1.8 kips per square foot. The other sample tested at field moisture content.

CONSOLIDATION TEST DATA

LAW/CRANDALL, INC.

PLATE A - 4.1



JOB S92062.AO DATE 7/17/92 BY TBC O.E. TBC CHKD

NOTE : Water added to sample after consolidation under a load of 1.8 kips per square foot.

CONSOLIDATION TEST DATA

LAW/CRANDALL, INC.

PLATE A - 4.2

JOB S92062.A0 DATE 7/17/92 BY TBC O.E. TBC CHKD

BORING NUMBER AND SAMPLE DEPTH :	COMPOSITE 1 at 1' to 3' and 2 at 1' to 3'
SOIL TYPE :	SILTY SAND and SANDY SILT
MAXIMUM DRY DENSITY * : (lbs./cu. ft.)	123
OPTIMUM MOISTURE CONTENT * : (% of dry wt.)	10
EXPANSION (%) : (From optimum to saturated moisture content)	2.6
C. B. R. ** (% of standard)	
AT 90% COMPACTION :	3
AT 95% COMPACTION :	5

* TEST METHOD : ASTM Designation D1557 - 91

** TEST METHOD : ASTM Designation D1883 - 87

COMPACTION AND C. B. R. TEST DATA

LAW/CRANDALL, INC.

PLATE A - 5

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Final
Phase I Environmental Site Assessment FOR

GE Real Estate

All Aboard Mini Storage

1030 East 4th Street
Santa Ana, California

July 11, 2005
B3GE.11307.00.0014

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PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Ali Aboard Mini Storage
1030 East 4th Street
Santa Ana, CA 92701

SECOR PN: B3GE.11307.00.0014

Submitted by:
SECOR International Incorporated
7730 SW Mohawk Street
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Prepared for:
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July 11, 2005

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D. Howe Gates
Principal Scientist

EXECUTIVE SUMMARY

SECOR International Incorporated (SECOR) is pleased to present our Phase I Environmental Site Assessment (Phase I ESA). Cited below is an overview of the project, including a summary of our significant findings:

Property name ("subject property"):	All Aboard Mini Storage
Subject property address (or other physical location description):	1030 East 4th Street Santa Ana, CA 92701

GE-RE ("User"):	Ms. Rene Earls
Reason for Requesting the Phase I ESA:	Pre-Financing Due Diligence
Date of initial contact from client:	6/15/05
Date Project Authorized:	6/17/05
Date Project Completed:	7/08/05

Subject property description:	The subject property is developed with a 423 unit self-storage facility. The subject property consists of seven single-story self storage buildings and one single-story office/residence on approximately 2.92-acres. The subject property is located in a mixed industrial and commercial area in the City of Santa Ana, Orange County, California.
Subject property operations:	The subject property operates as All Aboard Mini Storage, a self-storage facility with a resident manager.

Summary of subject property History	
From at least 1895 to approximately 1906	The subject property was developed with a residential dwelling and hay barn.
From approximately 1906to approximately 1993	The subject property was developed with a train depot and associated with the Southern Pacific railroad yard.
From approximately 1993 to approximately 1995	The subject property was vacant bare land and under construction.
From approximately 1995 to the present	The subject property has been developed with the current All Aboard Mini Storage facility.

Conclusions
SECOR has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 and the GE Capital Real Estate Scope of Work Guidelines for Environmental Due Diligence, of the All Aboard Mini Storage located at 1030 East 4th Street, Santa Ana, Orange County, California, the "subject property". Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the subject property.

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1.0 INTRODUCTION

1.1 SITE NAME AND LOCATION

Subject property name:	All Aboard Mini Storage
Street address (or other physical location description):	1030 East 4th Street Santa Ana, CA 92701

Figure 1 In Appendix A presents a Site Location Map showing the location of the subject property and the general vicinity within an approximately 1-mile radius.

1.2 CONTACT INFORMATION

GE-RE ("User"):	Ms. Rene Earls, GE-RE NAD
Subject Property Owner ("Owner"):	Hyrail Partners, LLC Management Enterprises, Ms. Kathleen Durr
"Key Site Manager":	Mr. and Mrs. Sergio and Iverie Almaraz

1.3 OBJECTIVE

The objective of this Phase I Environmental Site Assessment (ESA) was to identify, to the extent feasible pursuant to the processes outlined in the GE Capital Real Estate Scope of Work Guidelines for Environmental Due Diligence, dated February 2001, and as applicable, recognized environmental conditions (RECs) or historical (HRECs), as defined by ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E 1527-00 (ASTM E1527). A REC is defined by ASTM as the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, a past release, or the material threat of release of any hazardous substance or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term does not include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A HREC is defined as an environmental condition which in the past would have been considered a REC, but which may not be considered a REC currently.

1.4 SCOPE OF WORK, SIGNIFICANT ASSUMPTIONS, TERMS AND CONDITIONS

The scope of work, significant assumptions, and terms and conditions applicable to this Phase I ESA are identified in the following documents:
SECOR's Proposal for Environmental Services, Proposal Number: B3-05-423 dated June 15, 2005.
ASTM Designation E 1527-00 (ASTM E1527).
GE Capital Commercial Real Estate Financing & Services, "Scope of Work Guidelines for Conducting Phase I Environmental Due Diligence," Dated February 2001 (GECC Scope of Work).
Statement of Limitations presented in Appendix B of this report.

1.5 LIMITATIONS AND EXCEPTIONS

There were no exceptions to, or deletions from, the above-	SECOR was unable to document the historical use of the subject property prior to 1895, at which time the

referenced scope of work, with the exception of:	subject property was developed with a dwelling and hay barn. This exception is not expected to alter the conclusions of this report.
Weather-related restrictions:	None
Facility access restrictions:	None

1.6 RELIANCE

This report was prepared for the exclusive use of the following:
GE-Real Estate, North American Debt

This report is for the exclusive use of GE Real Estate and any and all holders of a note or notes secured by a mortgage, deed of trust or deed to secure debt encumbering the subject property, and their respective affiliates, designates, successors and assignees, rating agencies, prospective bond holders and bond holders, and no other party shall have any right to rely on any service provided by SECOR without prior written consent.

1.7 PROVIDED INFORMATION

Prior to initiating the site reconnaissance, SECOR requested the following information from the User of this Phase I ESA report.

Information on environmental liens on the Subject Property:	None provided
Information on site activity or use limitations:	None provided
Specialized knowledge or experience that is material to RECs in connection with the subject property:	None provided
Knowledge that subject property purchase/sale price is significantly lower than market value:	None provided
Reason why the User wants to have the Phase I ESA performed:	Pre-Financing Due Diligence

SECOR interviewed the Owner, Site Manager, and User to determine if they were aware of any pending, threatened, or past incidences of the following:

	Owner	**Subject Property Manager**	**User (GE-RE NAD)**
- Litigation relevant to hazardous substances or petroleum products in, on, or from Subject Property?	No	No	No
- Administrative proceedings relevant to hazardous substances or petroleum	No	No	No

products in, on, or from Subject Property? **- Notices from any governmental entity regarding possible violations of environmental laws or possible liability relating to hazardous substances or petroleum products?**	No	No	No

The Property Owner, Key Site Manager, and the User were asked if they know whether any documents exist that may be helpful to the completion of this Phase I ESA and, if so, whether copies can and will be provided to SECOR within reasonable time and cost constraints. Such documents include prior Phase I ESA reports, environmental permits, registration of underground storage tanks (USTs) and/or above ground storage tanks (ASTs), correspondences from environmental agencies, etc. A complete list of the documents requested in listed in Section 9.8.1 of the ASTM Practice. Documents provided to SECOR are summarized below.

Document, Source	Brief Description
Site plans and/or maps:	None provided
Title records:	None provided
Previous environmental reports (including ESAs, safety plans, community right to know plans, waste generation notices, geotechnical studies, etc.):	***Phase I Environmental Site Assessment Report for All Aboard Mini Storage, 1030 East 4th Street, Santa Ana, California*, by SECOR International Incorporated, dated September 21, 1998.** SECOR International Incorporated (SECOR) concluded that the subject property consisted of seven single-story self storage buildings and one single-story office/residence building on 2.42 acres. The seven self storage buildings were constructed of concrete walls and floors on slab on-grade concrete foundations. The office/residence was constructed of wood frame on a slab on-grade concrete foundation. The subject property was formerly a part of the Southern Pacific railroad, where cargo was loaded and unloaded, from at least 1906 to approximately 1992. The subject property was developed in approximately 1994 with the self-storage facility. SECOR reviewed a previous Phase I prepared by Law/Crandell in 1992 for the subject property. The subject property was identified as being associated with the Southern Pacific railroad. Surface soil staining, believed by Law/Crandell to be residue of diesel fuel from the rail spurs or parked cars, was observed along the former railroad tracks during Law/Crandell's site reconnaissance in 1992. According to Mr. L. D. Romine, with Hyrail Partners II L.P., the entire subject property was graded to a depth of approximately 6 feet below ground surface in 1993

	during site development. The staining was determined to be surficial, and no other issues of environmental concern were observed No further investigation was recommended by SECOR. ***Update of a Prior Phase I Environmental Site Assessment for All Aboard Mini Storage, 1030 E 4th Street, Santa Ana, California*, by SECOR International Incorporated, dated December 15, 2000.** The subject property consisted of approximately 2.42 acres, developed in approximately 1994 with seven self storage buildings and one single-story office/residential building. The update did not reveal any evidence of potential environmental risks in connection with the subject property.
Environmental registrations and/or permits (including tanks, waste disposal, wastewater discharge, stormwater discharge, etc.):	None provided
Governmental agency correspondence:	None provided
Material Safety Data Sheets (MSDS):	None provided
Other (describe):	None

2.0 SITE RECONNAISSANCE

The site reconnaissance was conducted by Amy Zach on June 23, 2005. Access to the subject property was provided by Mr. and Mrs. Sergio and Iverie Almaraz, Resident Managers with All Aboard Mini Storage, who accompanied SECOR on the site visit.

2.1 METHODOLOGY

SECOR utilized the following methodology to observe the subject property:
Traverse the outer subject property boundary.
Traverse transects across the subject property.
Traverse the periphery of all structures on the subject property.
Visually observe assessable interior common areas expected to be used by occupants or the public, maintenance and repair areas, utility areas, and a representative sample of occupied spaces.

2.2 GENERAL DESCRIPTION

Subject property description:	The subject property consists of seven single-story self storage buildings and one single-story office/residence on approximately 2.92 acres. The subject property is located in a mixed industrial and commercial area in the City of Santa Ana, Orange County, California.
Subject property size:	2.92 acres
Estimated % of subject property covered by buildings and/or pavement:	100%
Observed current subject property use/operations:	The subject property operates as a self-storage facility with a resident manager.
Structures, roads, other improvements:	The self storage buildings are constructed on a concrete slab-on-grade foundation with concrete walls. The roof materials consist of steal beams and metal sheeting roofs. The interior of the self storage buildings are finished with concrete walls and floors and a metal roof. There is approximately 44,830 square feet of rentable space at the subject property. The single-story office/residence building is finished with painted drywall walls and floors which are either covered with carpet, tile, or vinyl flooring. The subject property is covered by concrete and landscaping near the office/residence building. Access to the subject property is from East 4th Street to the north.
Sewage disposal method (and age):	The City of Santa Ana Water Resources Division has provided sanitary sewer services to the subject property since construction of the existing building in 1995.

Potable water source:	The City of Santa Ana Water Resources Division supplies the City of Santa Ana with drinking water. Rivers, lakes, streams, ponds, reservoirs, springs, and wells are the source of the drinking water. According to the most recent available water quality report (2004) Santa Ana water meets all federal and state drinking water standards.
Electric utility:	Southern California Edison (SCE)
Heating (including energy source):	Natural Gas supplied by The Gas Company

Figure 2 in Appendix A presents a not-to-scale site plan. Site photographs are provided in Appendix C.

2.3 INTERIOR AND EXTERIOR OBSERVATIONS

SECOR made the following visual and/or physical observations during the site reconnaissance and/or identified the presence of the following during the interview or records review portions of the assessment:

Observation	Description
Hazardous substances and petroleum products:	Small quantities of paint and household cleaners were observed in a facility maintained storage unit. All materials were observed to be stored in their original manufacturer-issued containers, with no evidence of leaks. No staining or floor drains were observed in the storage unit.
Hazardous Waste:	None observed
Drums (≥ 5 gallons):	None observed
Strong, pungent, or noxious odors:	None
Pools of liquid:	None observed
Unidentified substance containers:	None observed
PCB-containing equipment:	None observed
Other:	None

2.4 INTERIOR OBSERVATIONS

SECOR made the following observations during the site reconnaissance and/or identified the presence the following during the interview or records review portions of the assessment:

Observation	Description
Heating/Cooling method (including fuel source):	The office/residential building at the subject property is serviced by natural gas heat and electric air conditioning unit. The storage units are not heated or cooled.
Stains or corrosion:	None observed
Floor drains and sumps:	None observed
Other:	None

2.5 EXTERIOR OBSERVATIONS

SECOR made the following observations during the site reconnaissance and/or identified the presence the following during the interview or records review portions of the assessment:

Observation	Description
On-site pits, ponds, or lagoons:	None observed
Stained soil or pavement:	None observed, with the exception of *de minimis* oily staining observed in the parking areas. The staining appeared consistent with small leaks or drips from parked automobiles.
Stressed vegetation:	None observed
Solid waste:	No evidence of improper or unauthorized solid waste disposal was observed on the subject property. One dumpster was observed on the east side of Building G on the western portion of the subject property. Great Western Reclamation collects the dumpster twice a week for disposal off-site at the Bee Canyon Landfill located in Irvine, CA. The Bee Canyon Landfill was not listed on the Federal NPL, CERCLIS or state equivalent list. No evidence of staining or improper disposal was observed in the vicinity of the solid waste dumpster.
Wastewater:	The subject property is connected to the municipal sanitary sewer. Wastewater generated at the subject property consists of sanitary discharges from sinks and restrooms.
Stormwater:	Stormwater flows via sheet flow toward stormwater drains located on Breeden Street, where it discharges to the municipal storm sewer system.
Wells:	None observed or reported
Septic Systems:	None observed or reported
Other:	None

2.6 UNDERGROUND STORAGE TANKS/STRUCTURES

Existing USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), which would indicate the presence of USTs, was discovered during the site reconnaissance.
Former USTs:	No visible evidence (fill pipes, vent pipes, dispensers, surface patches), reports, or other evidence of the former presence of USTs was discovered during this Phase I ESA.
Other underground structures:	None observed or reported

2.7 ABOVEGROUND STORAGE TANKS

Existing ASTs:	No ASTs were observed during the site reconnaissance.
Former ASTs:	No reports or other evidence of the former presence of ASTs was discovered during this Phase I ESA.

2.8 ADJOINING PROPERTIES

2.8.1 Current Uses of Adjoining Properties

North:	East 4th Street, across which was Taqueria De Anda Restaurant and a new unnamed commercial building.
Northwest	The intersection of South 3rd Street and Breeden Street, across which was Tom's Towing Center
South:	Auto Storage Yard, To's & Mo's Imports, Sterling Auto Body, and East 1st Street, across which was Crowley's Roofing Supplies and Minnie Street
East:	A new unnamed commercial building, beyond which was a railroad track
West:	North Standard Avenue, across which was East 3rd Street, Tom's Truck Center, East 2nd Street, and National Auto Parts (wrecking yard)

2.8.2 Pits, Ponds or Lagoons on Adjoining Properties

North:	None observed
South:	None observed
East:	None observed
West:	None observed

2.9 PHYSICAL SETTING

Topography:	The United States Geological Survey (USGS) 7.5-minute topographic quadrangle map for the Tustin, California Quadrangle dated 1978, depicted the subject property to be at an elevation of approximately 130 feet above mean sea level. The topography in the vicinity of the subject property slopes to the southwest. The topographic map depicts the subject property to be developed with a rectangular building and railroad track and labeled station, no other features that indicate potential sources of environmental concern.
Soil/bedrock data:	The soil at the subject property was identified as Mocho loam. This soil consists of well drained soils on flood plains and alluvial fans. The soil formed in alluvium derived from sedimentary rocks. In a typical profile the surface layer is brown loam 31 inches thick. The next layers are light brownish gray, brown, and pale brown stratified fine sandy loam, silty clay loam, and loam to a depth of 61 inches or more. If the soil is bare, runoff is slow and the erosion hazard is slight.
Hydrology:	The Groundwater Atlas of the United States, California/Nevada indicates that the subject property is located above a costal basin. Coastal Basin aquifers occupy a number of basins in coastal areas of southern California. These basins have similar morphology and a Mediterranean climate. All are in structural depressions formed by folding and faulting, all are filled with marine and alluvial sediments, and all are drained by streams that contain water at least part of the year. Groundwater in the basins is under unconfined to confined conditions, and two or more vertically sequential aquifers can be present in a basin, separated by confining units that consist of fine-grained sediments. In nearly all basins that contain more than one aquifer, however, the aquifers are hydraulically connected to some

3.0 RECORDS REVIEW

3.1 FEDERAL/STATE ENVIRONMENTAL RECORDS

The regulatory agency database was obtained from a third-party environmental regulatory agency database search firm. A complete copy of the database, including the date the report was prepared, the date the information was last updated, and the definition of databases searched, is provided in Appendix D.

The subject property was not identified in the environmental database report.

Based on the Database Assessment Criteria presented in Appendix E, none of the facilities listed in the database report represent a REC or HREC to the subject property.

Facility Name/Address	Database Listing	Distance/Direction from subject property	Gradient	REC
Madison Materials 1035 East 4th Street Santa Ana, CA	RCRA-SQG SWF/LF	Adjacent to the north, across East 4th Street	Presumed upgradient	No
Madison Materials was not observed during the site reconnaissance. No violations were reported. The facility is a large transfer station for construction/demolition, green, inert, and metal materials. Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				
Reindeer Towing 1008 East 4th Street Santa Ana, CA	HIST UST	Adjacent to the west, across Breeden Street	Presumed cross-gradient	No
At the time of SECOR's site reconnaissance, this facility was Tom's Truck Center and Tom's Towing. According to the EDR, the facility had one former 7,600-gallon gasoline UST. The installation and removal dates were not reported by EDR. Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				
Vitec, Inc. 1043 East 4th Street Santa Ana, CA	HIST UST	Approximately 450 feet to the northeast of the subject property	Presumed upgradient	No
The facility was not observed during the site reconnaissance. Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				
Joes Transmission 117 N Standard Ave Unit C Santa Ana, Ca	RCRA-SQG	Adjacent to the south-southwest	Presumed downgradient	No
The facility was not observed during the site reconnaissance. Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				
Tom's Truck Center, Inc. 936 E 3rd Street Santa Ana, CA	RCRA-SQG	Adjacent to the west, across Breeden Street	Presumed cross-gradient	No
Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				

Facility Name/Address	Database Listing	Distance/Direction from subject property	Gradient	REC
Berlin Tire Center 115 N Standard Santa Ana, CA	RCRA-SQG	Adjacent to the south-southwest	Presumed downgradient	No
The facility was not observed during the site reconnaissance. Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				
ECS Trucking 1016 E 1st Street Santa Ana, CA	HIST UST	Approximately 125 feet to the south-southwest of the subject property.	Presumed downgradient	No
According to the EDR, the facility had three historic USTs, including one 1,000-gallon gasoline UST installed in 1974, one 2,000-gallon gasoline UST installed in 1974, and one 280-gallon waste oil UST installed in 1970. The historic USTs were owned by Goode Oil Company. No removal date was reported by EDR. Based on the lack of reported spills, leaks, or releases, this facility does not represent a REC to the subject property.				
Ston & Van Dyke 1101 E 3rd Street Santa Ana	RCRA-SQG	Approximately 500 feet to the east of the subject property	Presumed cross-gradient	No
Based on the lack of reported violations and releases, this facility does not represent a REC to the subject property.				
Rice Auto Parts 905 E 2nd Street Santa Ana, CA	LUST	Approximately 600 feet to the west of the subject property	Presumed downgradient	No
According to the EDR, the facility has impacted soil only. A "no action" status was reported by EDR for the facility. The number of current or former USTs was not reported. No additional information was reported by EDR. Based on the lack of reported groundwater impacts and the presumed downgradient location from the subject property, this facility does not represent a REC to the subject property.				

Other facilities were identified by the EDR however, based on their regulatory status, distance or cross-gradient position, these facilities are not expected to be of environmental concern for the subject property.

3.2 LOCAL/REGIONAL ENVIRONMENTAL RECORDS

SECOR checked the following sources to obtain information pertaining to site use and/or indicative of RECs in connection with the subject property:

3.2.1 Health Department/Environmental Division

Agency Name, Address, Phone Number	Finding
California Department of Toxic Substances Control (DTSC) Public Participation Unit 1001 I Street Sacramento, CA 916/322-0476 916/327-0978 fax	A Freedom of Information Act (FOIA) request was submitted to the DTSC on June 21, 2005. A letter dated June 23, 2005 from the DTSC, stated the DTSC did not have any records associated with the subject property.

California State Water Resources Control Board (SWRCB) 1001 I Street Sacramento, CA 916/341-5851 916/341-5808	A FOIA request was submitted to the SWRCB on June 21, 2005. No response has been received as of the date of this report.
Orange County Health Care Agency (OCHCA) 511 North Sycamore Street Santa Ana, CA 714/834-3536 714/835-9312 fax	A FOIA request was submitted to the OCHCA on June 21, 2005. No response has been received as of the date of this report.

3.2.2 Fire Department

Agency Name, Address, Phone Number	Finding
City of Santa Ana Fire Department (SAFD) – Records 1439 South Broadway Santa Ana, CA 714/647-5792 714/647-5779 fax	A FOIA request was submitted to the SWRCB on June 21, 2005. The SAFD responded that they did not have any records pertaining to the subject property address.

3.2.3 Planning/Zoning Department

Agency Name, Address, Phone Number	Finding
City of Santa Ana Planning and Building Department 20 Civic Center Plaza Santa Ana, CA 714/647-5804	The subject property was zoned M-2 HDII, heavy industrial within height district two. The zoning of the subject property is not expected to change.

3.2.4 Building Department

Agency Name, Address, Phone Number	Finding
City of Santa Ana Planning and Building Department 20 Civic Center Plaza Santa Ana, CA 714/647-5804	Permits for the current subject property buildings dated back to 1993. Multiple building, plumbing, electrical, and mechanical permits were reviewed for the subject property. The current subject property was issued new construction permits in 1994. Demolition permits were reviewed for East 4th Street. There were no demolition permits on file for any former buildings located at the subject property. Permits reviewed at the building department did

	not indicate any environmental concerns associated with the subject property.

3.2.5 Land Title Records/Deeds

Year	Owner
1993 to the Present	The subject property has been owned by Hyrail Partners, LLC.

SECOR performed land title record/deed research at the following location(s):

- Orange County Tax Assessor
- City of Santa Ana

3.3 HISTORY

3.3.1 Summary of Subject Property History

Dates	Subject Property Use
From at least 1895 to approximately 1906	The subject property was developed with a residential dwelling and hay barn.
From approximately 1906to approximately 1993	The subject property was developed with a train depot and associated with a railroad yard.
From approximately 1993 to approximately 1995	The subject property was vacant bare land and under construction.
From approximately 1995 to the present	The subject property has been developed with the current self storage configuration.

3.3.2 Summary of History of Properties in Surrounding Area

Direction	Past Use(s)
North	East 4th Street, across which was undeveloped from at least 1895 to approximately 1906, a commercial building, railroad tracks, a creamery, and three fruit packing warehouses from approximately 1906 to approximately 1949, a commercial building, railroad tracks, and three fruit packing warehouses from approximately 1949 to approximately 1990, a restaurant and railroad tracks from approximately 1990 to approximately 2004, and a restaurant and a commercial building from approximately 2004 to the present.
South	A fruit cannery and East 1st Street, across which was one dwelling from approximately 1906 to approximately 1928, a fruit cannery and East 1st Street, across which was an oil/gasoline distributor and two commercial buildings from approximately 1928 to approximately 1965, two commercial buildings and East 1st Street, across which was an oil/gasoline distributor and two commercial buildings from approximately 1965 to the present.
East	Railroad tracks and the Sante Fe Railroad Depot from approximately 1940 to approximately 1990, vacant bare land from approximately 1990 to approximately 2004, and a commercial building, beyond which was a railroad track from approximately 2004 to the present.
West	Dwellings from at least 1895 to approximately 1906, a lumber yard from approximately 1906 to approximately 1995, and a truck repair shop from approximately 1995 to the present.

3.3.3 Aerial Photographs

Year	Scale	Subject Property and Adjoining Property Observations
1952	Unknown	The 1952 aerial photograph depicted the subject property to be developed with multiple railroad spurs and tracks and a rectangular building near the northwest corner of the property. The aerial photograph depicted the adjacent property to be the north to be East 4th Street, across which was developed with a building, railroad tracks, and another building; to the northwest was the intersection of Breeden Avenue and North Standard Avenue, across which was developed with three buildings; to the south were five buildings and East 1st Street, across which were multiple buildings; to the east were railroad tracks, across which were six buildings; to the west was North Standard Avenue, across which was developed with multiple auto related facilities.
1959	Unknown	The 1959 aerial photograph depicted the subject property and adjacent properties to be generally unchanged from the 1952 aerial photograph.
1967	Unknown	The 1967 aerial photograph depicted the subject property to be generally unchanged from the 1959 aerial photograph. The aerial photograph depicted the adjacent property to the north to be two buildings, railroad tracks, and two other buildings; to the northwest to be two rectangular buildings beyond which was the intersection of Breeden Avenue and North Standard Avenue, across which were three buildings; to the south were two rectangular buildings and East 1st Street, across which were three buildings and a gas station; to the east were railroad tracks, across which were five buildings; to the west was North Standard Avenue, across which was developed with multiple auto related facilities.
1975	Unknown	The 1975 aerial photograph depicted the subject property and adjacent properties to be generally unchanged from the 1967 aerial photograph.
1983	Unknown	The 1983 aerial photograph depicted the subject property and adjacent properties to be generally unchanged from the 1975 aerial photograph.
1992	1" = 2,000'	The 1992 aerial photograph depicted the subject property to be vacant bare land with one railroad spur. The adjacent properties appear to be generally unchanged from the 1983 aerial photograph.
1995	1" = 2,000'	The 1995 aerial photograph depicted the subject property to be developed with the current building configuration. The adjacent properties appeared to be generally unchanged, with the exception of the adjacent property to the east which was vacant bare land, across which was a railroad track, across which were two buildings.
1999	1" = 2,000'	The 1999 aerial photograph depicted the subject property

		and adjacent properties to be generally unchanged from the 1995 aerial photograph.
2004	Unknown	The 2004 aerial photograph depicted the subject property and adjacent properties to be developed with the current buildings observed during the site reconnaissance.

Aerial photograph research was conducted the following location(s):

- Continental Aerial Photo, Inc., Los Alamitos, California, 1953 through 1999
- www.terraserverusa.com, 2004

3.3.4 City Directories

SECOR reviewed city directories in approximately five year intervals for the years 1928 through 1995 at the Santa Ana City Library History Room and the Anaheim Public Library History Room. City directories after 1995 were not available for review.

The subject property was first listed in 1934 as SP Railroad crossing, C C Collins Co., C G White, and Langley Oil Co. The subject property was listed as SP Railroad crossing, Santa Fe Depot, C C Collins Co., Culver utilities Co, Lawrence Warehouse, and Tree Sweet Products in 1940. From 1945 through 1965 the subject property is listed solely as SP Railroad Company Depot. The subject property address was not listed from 1974 through 1990. The subject property was listed as Right Track Construction in 1995.

Properties surrounding the subject property were commercial fruit packaging and warehousing facilities and a lumber company from at least 1928 through approximately 1960. From 1960 to the present the surrounding properties have consisted predominantly of smaller commercial auto parts, repair, towing, and salvage facilities. A complete listing of adjacent and nearby properties identified in the city directories is presented in Appendix G.

3.3.5 Historical Fire Insurance Maps

Year	Observations
1885, 1887, 1888, and 1891	The Sanborn Maps did not cover the subject property.
1895	The 1895 Sanborn Map depicted the northern portion of subject property to be a dwelling and a hay barn. The southern portion of the subject property was not covered. The Sanborn Map depicted the adjacent property to the north as East 4th Street, across which was S H Pendleton's Lumber Yard and undeveloped land, to the east to be undeveloped and railroad tracks; and to the west to be two dwellings and a horse corral.
1906	The 1906 Sanborn Map depicted the subject property to be the Southern Pacific Railroad Depot, near the northwest corner of the property, and multiple railroad spurs on the remaining portion. The Sanborn Map depicted the adjacent property to the north to be East 4th Street, across which was a lodge, railroad tracks, Southern CA Creamery & Ice Co., railroad tracks, and three walnut warehouses; to the northwest was the intersection of Breeden and North Evergreen, across which were two dwellings and a restaurant; to the south to be Southern CA Fruit Growers Association and East 1st Street, across

	which was one dwelling; to the east the A.T. & S.F. Railroad Depot and railroad tracks; and to the west was North Evergreen, across which was undeveloped.
1949	The 1949 Sanborn Map depicted the subject property to be the Southern Pacific Railroad Depot, near the northwest corner of the property, a part of a lumber yard on the western portion of the property, section housing on the southern portion of the property, and railroad tracks. The 1949 Sanborn Map depicted the adjacent property to the north to be East 4th Street, across which was a neon sign manufacturer, a warehouse, railroad tracks and multiple fruit warehouses; to the northwest was a lumber yard, the intersection of Breeden and North Evergreen, across which was Barr-Lumber Co; to the south a vacant cannery and East 1st Street, across which was Union Oil Co. gasoline distributors and railroad tracks; to the east the A.T. & S.F. Railroad Depot and railroad tracks; and to the west was a lumber yard, North Evergreen, across which were four dwellings.

Name of maps and source:

- www.multcolib.org

3.3.6 Other Historical Sources

There were no other sources of historical information reviewed during this assessment.

3.4 OPINION

It is SECOR's opinion that none of the findings from the records review represent a REC or HREC.

4.0 INTERVIEWS

4.1 KEY SITE MANAGER

Name, Title	Telephone	Comments
Mr. Sergio Almaraz, Resident Manager	714/564-9910	Mr. Almaraz stated that he has worked for All Aboard Mini Storage for two years and has been the resident manager at the subject property for one year. He stated that he was not aware of any environmental concerns associated with the subject property. Mr. Almaraz stated that all renters at the subject property sign an agreement, which states "storing of hazardous materials is strictly forbidden".

4.2 MAJOR OCCUPANTS

All Aboard Mini Storage was the only occupant of the subject property at the time of the site reconnaissance.

4.3 OTHERS

SECOR interviewed the following people likely to be knowledgeable of the environmental condition or history of the subject property, such as local agency officials, neighbors, past owners, operators, or occupants, etc.:

Name, Title	Telephone	Qualifications relevant to subject property knowledge	Comments
Mr. Jay Bento, UST Coordinator with the Santa Ana Fire Department (SAFD)	In Person Interview 714/647-5761	Mr. Bento has worked with the UST program since 1993 and with the SAFD since 1990.	Mr. Bento stated that he was not aware of any former USTs at the subject property.

4.4 OPINION

None of the information obtained during the interviews described above indicated the existence of a REC or HREC to the subject property.

5.0 OTHER ENVIRONMENTAL CONSIDERATIONS

SECOR was requested to investigate the following other environmental considerations, which are included in the GECC Scope of Work for this project.

5.1 LEAD-BASED PAINT

Concern for lead-based paint (LBP) is primarily related to residential structures. The risk of lead toxicity in LBP varies based upon the condition of the paint and the year of its application. The U.S. Department of Housing and Urban Development (HUD) has identified the following risk factors:

- The age of the dwelling as follows:
  - The maximum risk is from paint applied before 1950.
  - There is severe risk from paint applied before 1960.
  - There is moderate risk from deteriorated paint applied before 1970.
  - There is slight risk from the paint that is intact but applied before 1977.
- The condition of the painted surfaces.
- The presence of children and certain types of households in the building.
- Previously reported cases of lead poisoning in the building or area.

The recommended HUD guideline for LBP is 0.5 percent lead by weight. GE-RE guidelines indicate that the potential environmental risk for LBP should be evaluated for structures constructed in 1978 or earlier.

Construction Date	Residential (Yes/No)	Condition of Painted Surfaces
1995	Yes	Good Condition

The interior painted surfaces in routinely inhabited areas (e.g., offices, food preparation and eating, and process areas) appeared to be in good condition, with no visual evidence of cracking or peeling. Therefore, an assessment of LBP is not required by GECC scope of work.

5.2 ASBESTOS

The goal of this Phase I ESA was to visually determine if there is a potential for asbestos-containing material (ACM) to be present within any on-site structures. Asbestos can be found in many applications, including sprayed-on or blanket-type insulation, pipe wraps, mastics, floor and ceiling tiles, wallboard, mortar, roofing materials, and a variety of other materials commonly used in construction. The most concern for human health comes from friable asbestos, which has been associated with specific types of respiratory diseases. Friable asbestos is asbestos material that can be reduced to powder by hand pressure such as pipe insulation or sprayed on ceiling material and can become air-borne by touch. The manufacturing and use of asbestos was curtailed during the late 1970s.

In buildings constructed prior to 1980 SECOR has noted potential ACM in readily accessible areas of the building, its condition, the amount observed, and whether it is friable or non-friable.

Construction Date	Potential ACM Material/Location (if constructed after 1980, N/A)	Condition	Approx. Amount	Friable (Yes/No)
1995	N/A	N/A	N/A	N/A

5.3 WETLANDS

Wetlands cannot be definitively identified through visual observation alone. Defensible wetland delineations require taxonomic classification of site vegetation, an investigation into the surface and subsurface hydrology of the site, and identification of hydric soils. This level of delineation is outside of the scope or work for this assessment. However, SECOR did review the National Wetland Inventory maps as provided by EDR, the USDA Soil Survey, and the Flood Insurance Rate Maps.

Wetlands Identified on NRCS Map	Hydric Soils (Yes/No)	Within 100 or 500 year flood plain	New Development Planned (Yes/No)	Potential Wetlands Observed/Comments
No	No	No	No	No

No distinct evidence indicating the presence of wetlands on the subject property was observed during the site visit. Based on the above documents, the field observations, and the fact that no new development is planned at the property, a wetlands delineation does not appear to be warranted at this time.

5.4 AIR EMISSIONS

No sources of regulated air emissions or indoor air quality issues were reported or observed at the subject property.

5.5 RADON

Radon is a colorless, tasteless radioactive gas with an EPA-specified action level of 4.0 PicoCuries per liter of air (pCi/L). Radon gas has a very short half-life of 3.8 days. The health risk potential of radon is associated with its rate of accumulation within confined areas, particularly confined areas near or in the ground, such as basements, where vapors can readily transfer to indoor air from the ground through foundation cracks or other pathways. Large, adequately ventilated rooms generally present limited risk for radon exposure.

According to regional radon information obtained from the EPA, the subject property is located within EPA-designated Zone 2 for radon gas. Average radon concentrations within Zone 2 are reported to be between 2 and 4 pCi/L, below EPA-designated action levels for radon mitigation and/or control measures (USEPA, 1993). Based on SECOR's review of available information, as well as the absence of basements within the subject property building, elevated radon levels are not expected to accumulate in the subject property building.

5.6 DRY-CLEANING OPERATIONS

No dry-cleaning operations were reported or observed at or near the subject property. The historic review did not indicate a potential for past dry-cleaning operations on the subject property or in the vicinity. Dry-cleaning operations are not considered a potential environmental risk.

5.7 PESTICIDES

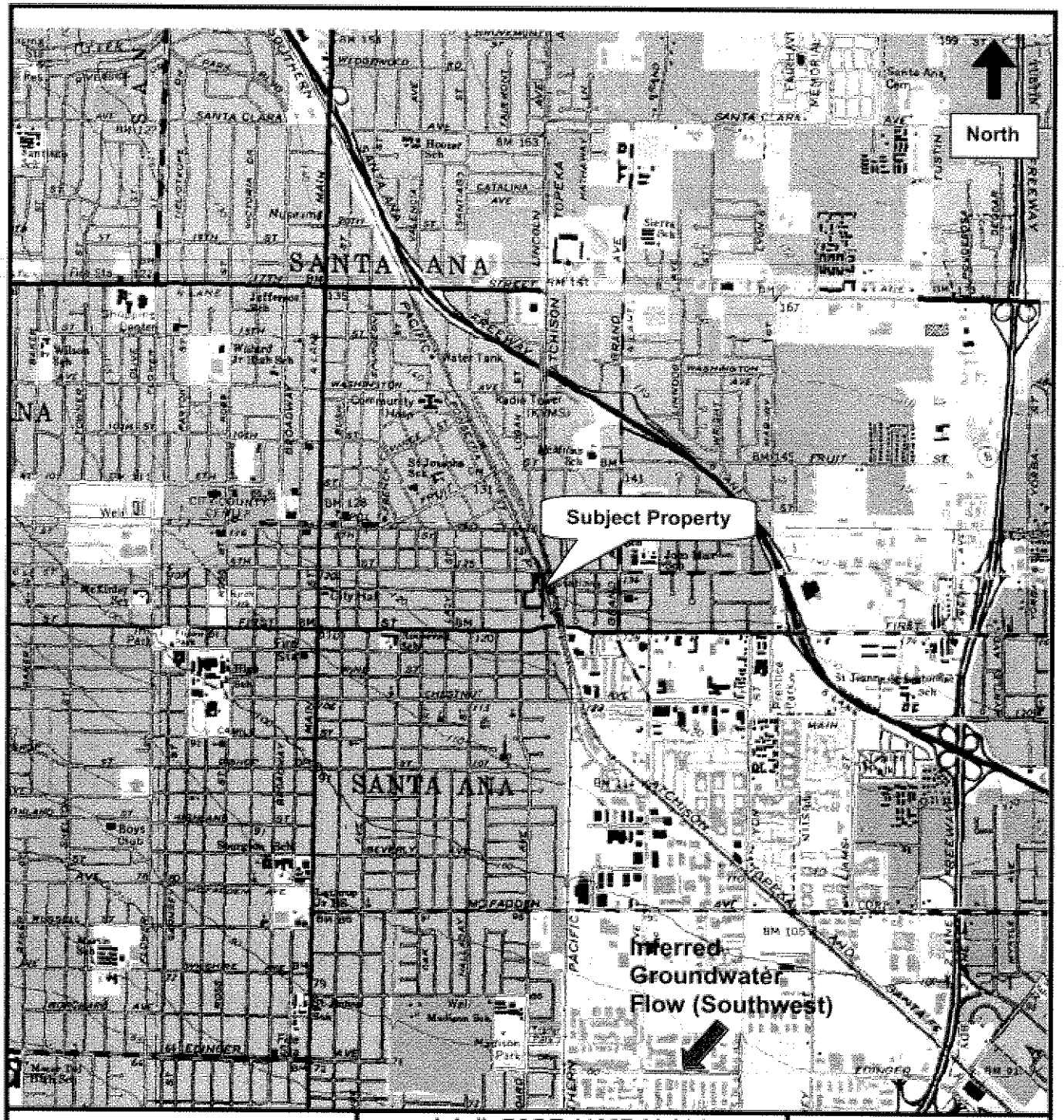
No agricultural use of the subject property was identified dating back to at least 1895, therefore pesticides are not considered a potential environmental risk.

6.0 CONCLUSIONS

SECOR has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 and the GE Capital Real Estate Scope of Work Guidelines for Environmental Due Diligence, of the All Aboard Mini Storage facility located at 1030 East 4th Street, Santa Ana, Orange County, California, the "subject property". Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the subject property.

APPENDIX A

FIGURES



California

Quadrangle Location Map

Job #: B3GE.11307.00.0014

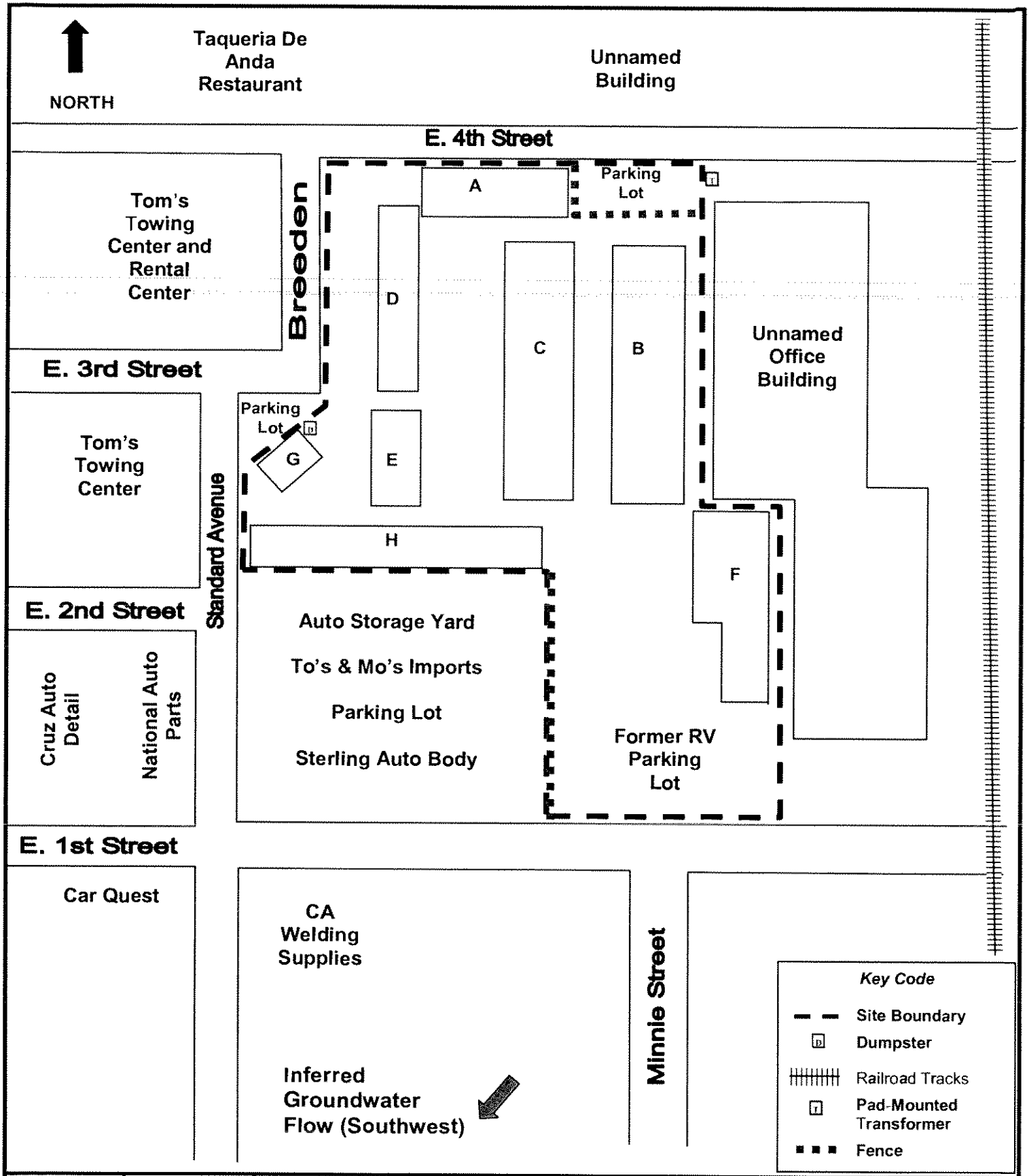
Site Location Map

All Aboard Mini Storage
1030 East 4th Street
Santa Ana, CA

SECOR

7730 SW Mohawk St.
Tualatin, OR. 97062

DATE: 6/21/05	Source: USGS Tustin, CA Quad 1978	Scale 1:25000	Figure: 1
DWN: Paula Fitzgerald	APPR: Amy Zach		Revision: 0



Drawn By: PF	Checked By: AZ	PROJECT NO B3GE.11304.00.0014	FIGURE 2	SECOR 7730 SE Mohawk St. Tualatin, OR. 97062	SECOR
Dwg Date 6/28/05	Revision 0	All Aboard Mini Storage 1030 E. 4th Street Anaheim, CA	Title: Site Plan		
Client: GE-RE, NAD			Scale: None		

APPENDIX B

STATEMENT OF LIMITATIONS

STATEMENT OF LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. These opinions have been arrived at in accordance with currently accepted environmental industry standards and practices applicable to the work described in this report. The opinions presented are subject to the following inherent limitations:

1. This report was prepared for the exclusive use of the entity referenced in Section 1.6. No other entity may rely on the information presented in the report without the expressed written consent of SECOR. Any use of the Phase I report constitutes acceptance of the limits of SECOR's liability. SECOR's liability extends only to its client and not to any other parties who may obtain the Phase I report.

2. SECOR derived the data in this report primarily from visual inspections, examination of records in the public domain, and interviews with individuals having information about the subject property. The passage of time, manifestation of latent conditions, or occurrence of future events may require further study at the subject property, analysis of the data, and reevaluation of the findings, observations, and conclusions in the report.

3. The data reported and the findings, observations, and conclusions expressed in the report are limited by the scope of work. The scope of work is presented in Section 1.4 and was agreed to by the client.

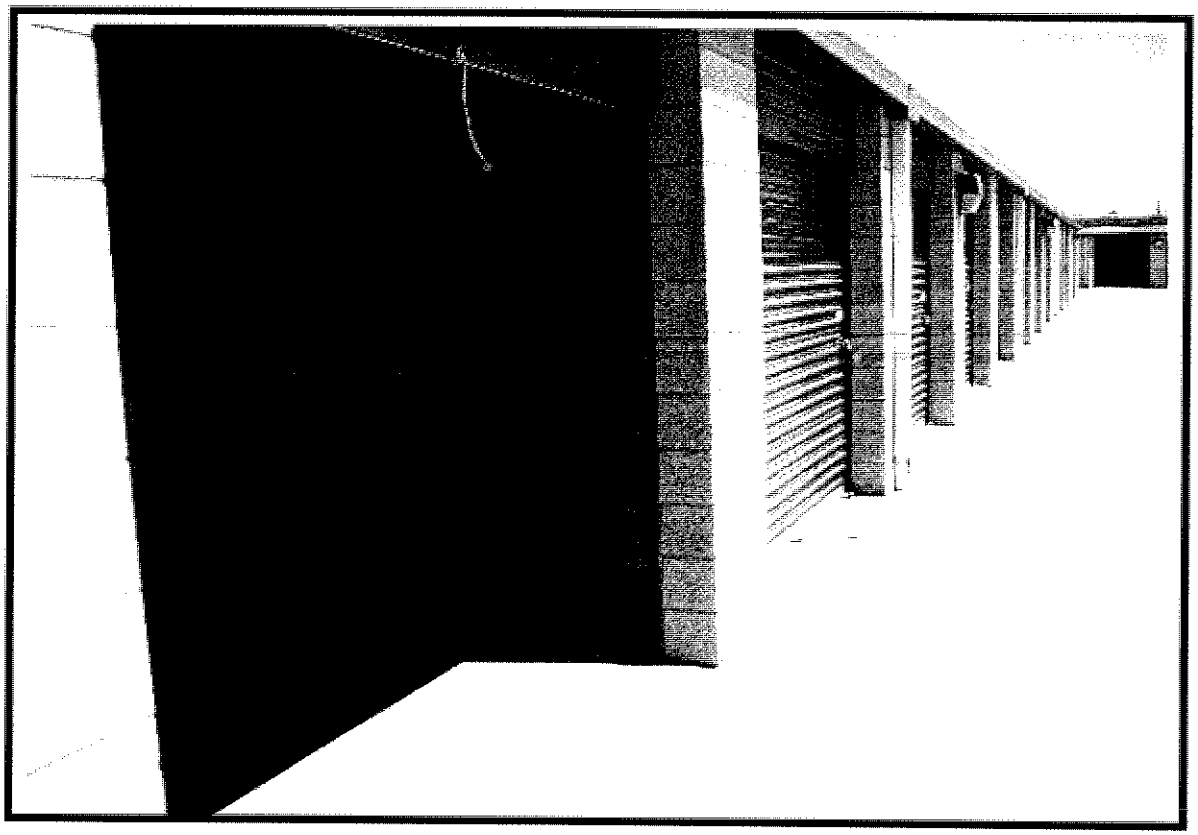
4. SECOR's Phase I ESA reports present professional opinions and findings of a scientific and technical nature. The report shall not be construed to offer legal opinion.

5. The conclusions presented in this report are professional opinions based on data described in this report. They are intended only for the purpose, subject property location, and project indicated. This report is not a definitive study of contamination at the subject property and should not be interpreted as such. An evaluation of subsurface soil and groundwater conditions was not performed as part of this investigation, unless indicated in Section 1.4. No sampling or chemical analyses of structural materials or other media was completed as part of this study unless explicitly stated in Section 1.4.

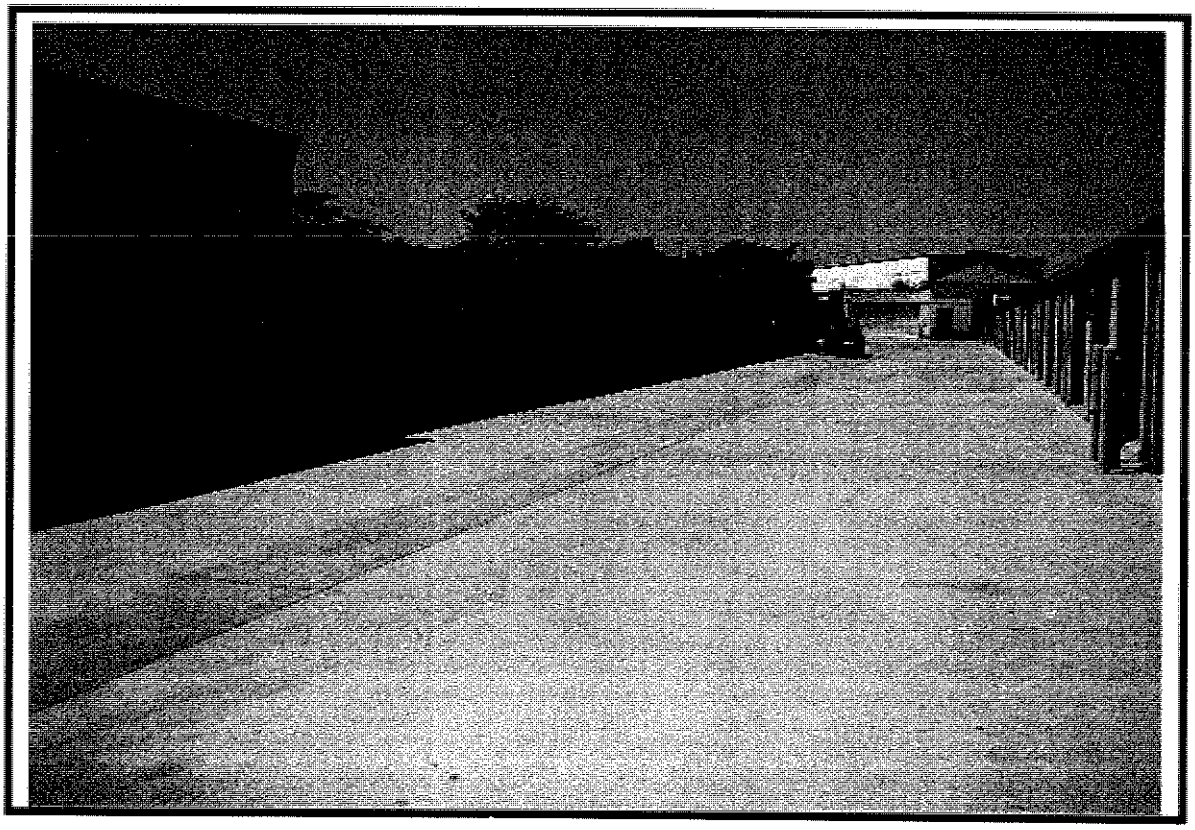
6. This report is based, in part, on unverified information supplied to SECOR by third-party sources. While efforts have been made to substantiate this third-party information, SECOR cannot guarantee its completeness or accuracy.

APPENDIX C

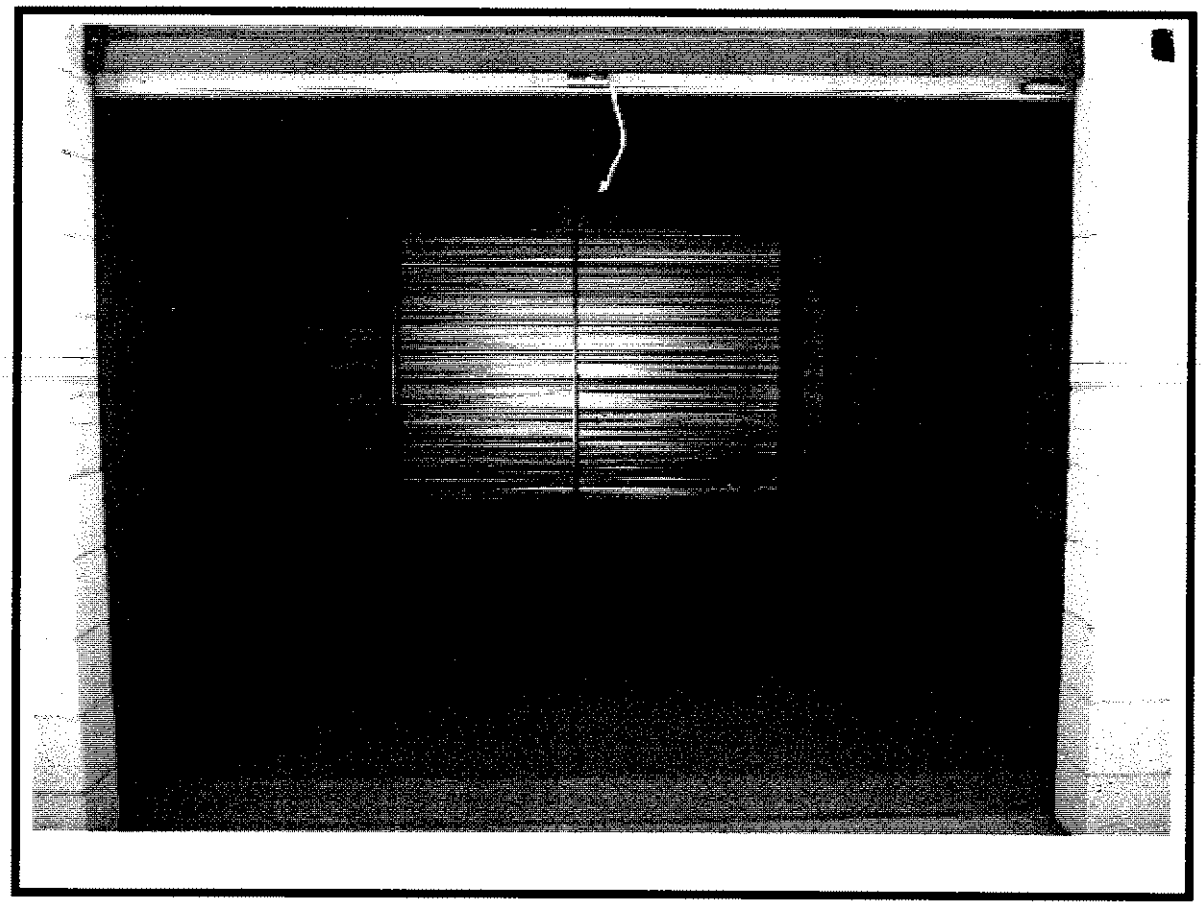
PHOTOGRAPHS



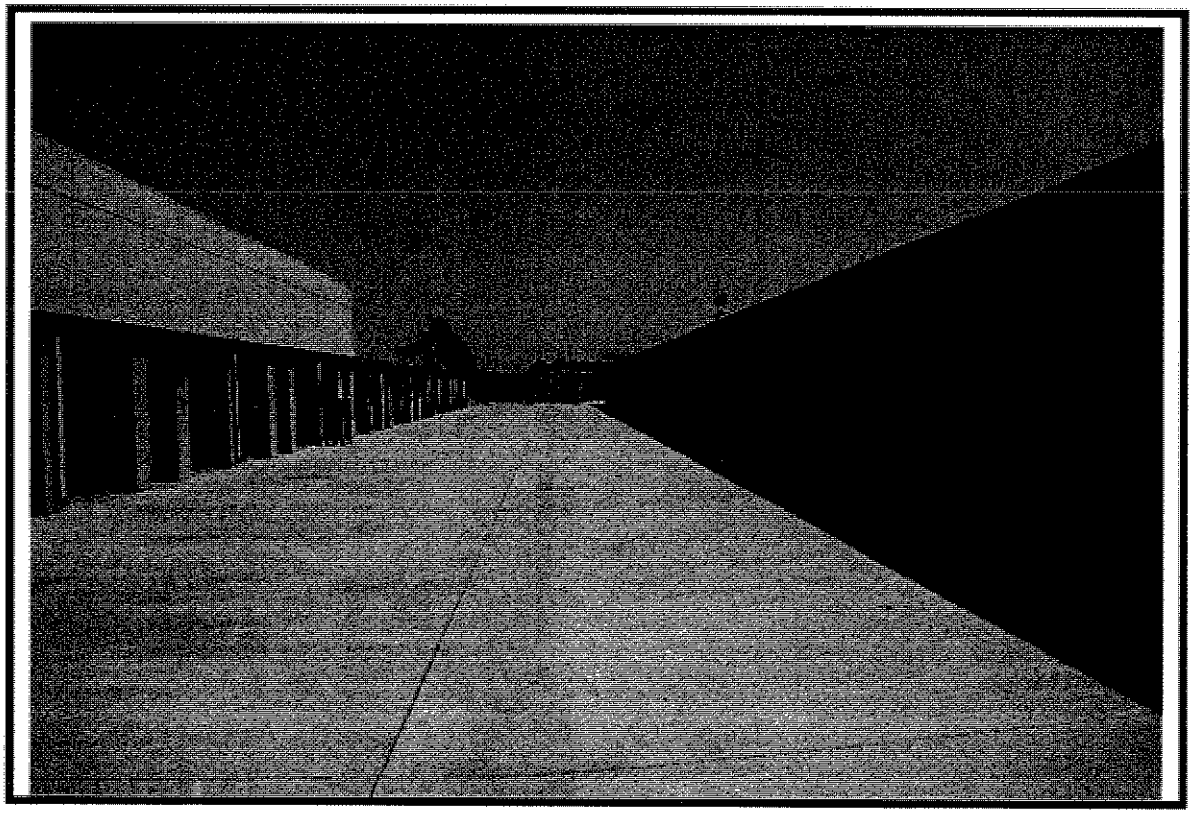
1. View of the subject property.



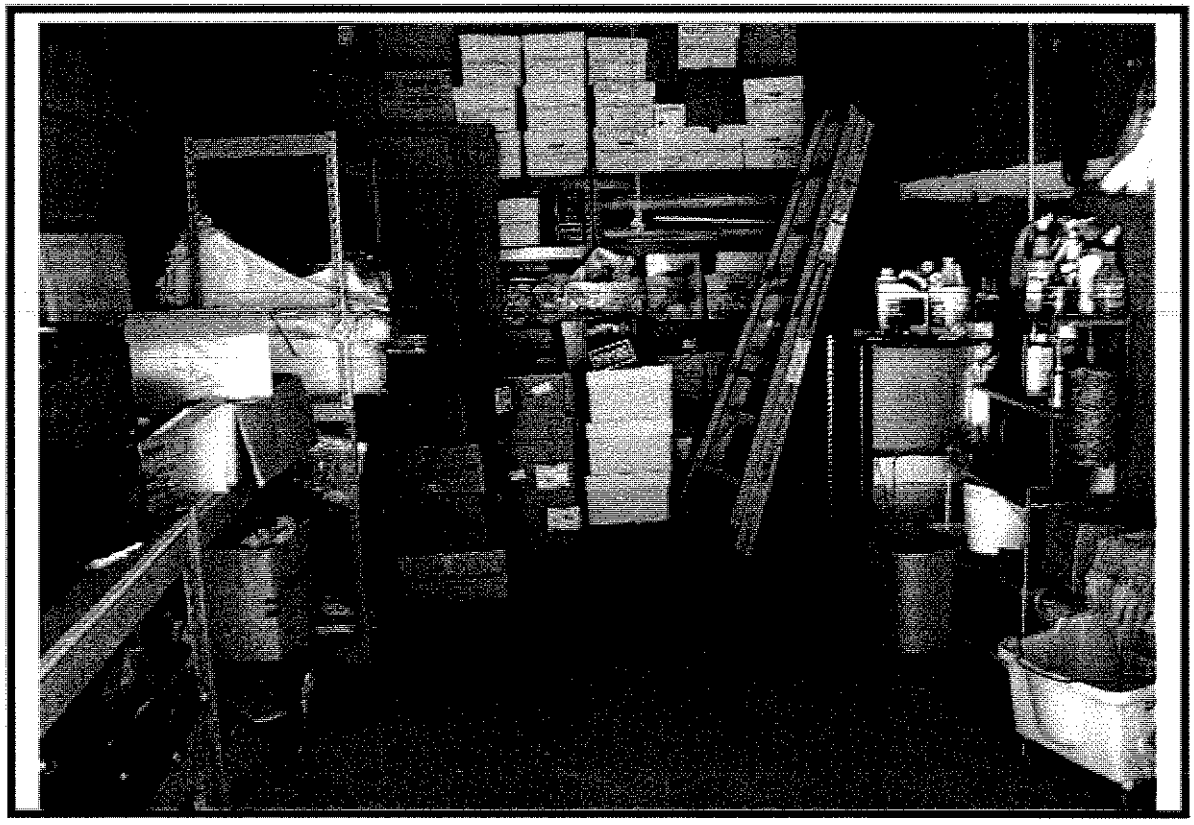
2. View of the subject property.



3. View of a typical storage unit at the subject property.



4. View of the south-southeastern portion of the subject property looking south.



5. View of the maintenance storage unit at the subject property.

6. View of the north side of the subject property.

APPENDIX D

ENVIRONMENTAL REGULATORY AGENCY DATABASE REPORT

EDR™ Environmental
Data Resources Inc

The EDR Radius Map™ Report

All Aboard
1030 E 4th Street
Santa Ana, CA 92701

Inquiry Number: 01454329.1r

June 27, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

FORM-KRA

EXECUTIVE SUMMARY

A search of availabte environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

TARGET PROPERTY INFORMATION

ADDRESS

1030 E 4TH STREET
SANTA ANA, CA 92701

COORDINATES

Latitude (North):	33.747300 - 33° 44' 50.3"
Longitude (West):	117.856400 - 117° 51' 23.0"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	420677.0
UTM Y (Meters):	3734273.5
Etevation:	131 ft. above sea tevet

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	331t7-F7 TUSTtN, CA
Source:	USGS 7.5 min quad index

TARGET PROPERTY SEARCH RESULTS

The target property was not tisted in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of availabte ("reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

FEDERAL ASTM STANDARD

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System

STATE ASTM STANDARD

Cal-Sites	Calsites Database

EXECUTIVE SUMMARY

FEDERAL ASTM STANDARD

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).
CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/15/2005 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FREEWAY AUTO WRECKERS	***1041 EAST 6TH STREET***	***1/8 - 1/4 NNE***	***F18***	***16***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/29/2005 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
EECO	***1441 EAST CHESTNUT AVEN***	***1/2 - 1 ESE***	***55***	***64***

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store , treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 05/20/2005 has revealed that there are 22 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MADISON MATERIALS	1035 E 4TH ST	0 - 1/8 NNE	A1	6
TREESWEET PRODUCTS CO	***1044 E 4TH ST***	***0 - 1/8 ENE***	***B6***	***8***
CONNELLY MACH	420 TERMINAL ST	0 - 1/8 NE	B8	9
STON & VAN DYKE	1101 E 3RD ST	1/8 - 1/4 E	11	10
JOHNSON ENTERPRISES	1114 E 4TH ST	1/8 - 1/4 ENE	D12	11
FORD TRUCK PARTS	***518 N POINSETTA***	***1/8 - 1/4 NNW***	***14***	***12***
LESTER FOWLER RECEIVERSHIP	1041 E 6TH ST	1/8 - 1/4 NNE	F19	17
S G ROOFING	1000 E 6TH ST	1/8 - 1/4 NNW	G24	23
LIEBERT SCRAP METALS INC	1051 E SIXTH ST	1/8 - 1/4 NNE	H33	27

Lower Elevation	Address	Dist / Dir	Map ID	Page
JOES TRANSMISSION	117 N STANDARD UNIT C	0 - 1/8 SSW	C5	8

EXECUTIVE SUMMARY

Lower Elevation	Address	Dist / Dir	Map ID	Page
ARCO #6085	1222 1ST ST	1/8 - 1/4 ESE	J37	29
HONEYWELL	514 LYON ST	1/4 - 1/2 WSW	44	39
GILBERT AND STEARNS	609 4TH ST	1/4 - 1/2 W	45	41

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 04/12/2005 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
ARCO 6085	1222 E. 1ST ST.	1/8 - 1/4 ESE	J35	27

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 8 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
REINDEER TOWING	1008 E 4TH ST	0 - 1/8 NW	3	7
VITEC INC.	1043 E 4TH ST	0 - 1/8 NE	B4	7
ANGELICA HEALTHCARE SERVICES G	1111 E 4TH ST	1/8 - 1/4 ENE	D17	15
G.W. MAINTENANCE, INC.	1061 E 6TH ST	1/8 - 1/4 NNE	F20	18
G.W. MAINTENANCE, INC	1102 E 6TH ST	1/8 - 1/4 NNE	H26	23

Lower Elevation	Address	Dist / Dir	Map ID	Page
ECS TRUCKING	1016 E 1ST ST	1/8 - 1/4 S	10	10
94902	1221 E 1ST ST	1/8 - 1/4 ESE	J36	28
TONY K SHOBEIRI	1222 E 1ST ST	1/8 - 1/4 ESE	J38	31

STATE OR LOCAL ASTM SUPPLEMENTAL

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 04/12/2005 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
EMERSON ELECTRONICS	300 S STANDARD STREET	1/4 - 1/2 S	40	32

PROPRIETARY DATABASES

Former Manufactured Gas (Coal Gas) Sites:
The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative

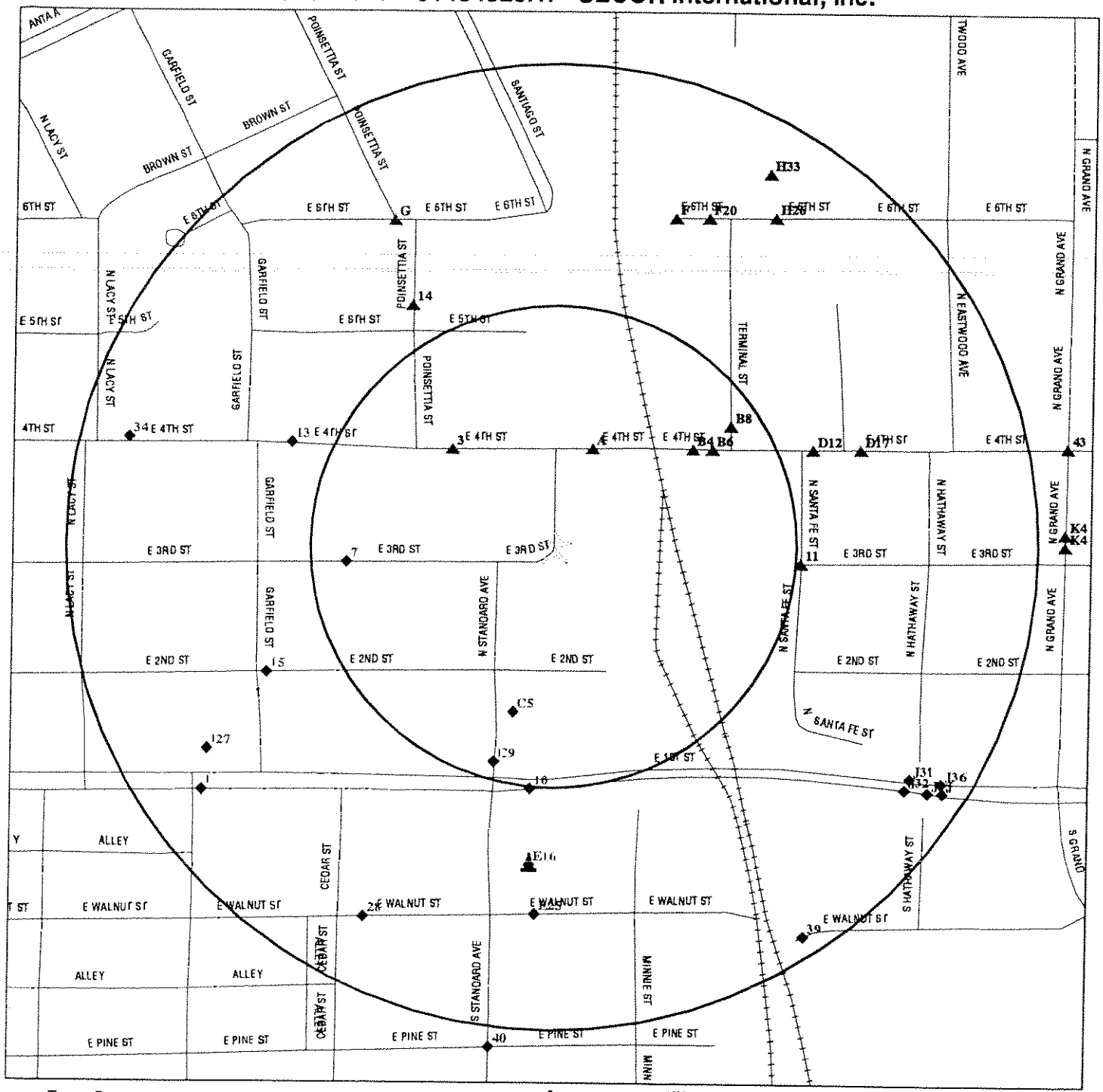
A review of the Coal Gas list, as provided by EDR, has revealed that there are 2 Coal Gas sites

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
SANTA ANA CITY DUMP	SWF/LF
ARCO #0206	LUST
TALIN TIRE INC.	LUST
NICKEY KARD LOCK	UST
PRESTIGE AUTO BODY & PAINT	RCRA-SQG

DETAIL MAP - 01454329.1r - SECOR International, Inc.



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Coal Gasification Sites
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

TARGET PROPERTY:	All Aboard	CUSTOMER:	SECOR International, Inc.
ADDRESS:	1030 E 4th Street	CONTACT:	Paula Fitzgerald
CITY/STATE/ZIP:	Santa Ana CA 92701	INQUIRY #:	01454329.1r
LAT/LONG:	33.7473 / 117.8564	DATE:	June 27, 2005 5:23 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
BROWNFIELDS DATABASES								
US BROWNFIELDS		TP	NR	NR	NR	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MADISON MATERIALS (LVTS) (Continued) S105454009

Other Recommendation :	Not reported		
Explanation:	Not Reported		
No Further Action:	Not Reported		
Permitted Throughput with Units:	950		
Actual Throughput with Units:	Tons/day		
Actual Capacity with Units:	950		
Permitted Capacity with Units:	950		
Remaining Capacity with Units:	Tons		
Permitted Total Acreage:	2.3		
Remaining Capacity :	Not reported		
Fill Area: Not reported		Inspec Frequency :	Monthly
Landuse Name: Not reported		GIS Source:	Map
Permit Status: Permitted		Category:	Transfer/Processing
Unit Number: 01		Closure Date:	/ /
Closure Type: Not reported		Disposal Acreage:	Not reported
Year Opened: Not reported		Year Closed:	Not reported
Last Waste Tire Inspection Count :	Not reported		
Last Waste Tire Inspection Date:	Not reported		
Original Waste Tire Count:	Not reported		
Original Waste Tire Count Date:	Not reported		
Type Of Refuse: Not reported			
Avg Depth Of Fill:	Not reported		
Addtl Expansion Area:	Not reported		
Site Description:	Not Reported		

---

3 **REINDEER TOWING** HIST UST U001578111
NW 1008 E 4TH ST N/A
< 1/8 SANTA ANA, CA 92701
386 ft.

Relative: Equal
Actual: 131 ft.

UST HIST:

Facility ID:	53227	Owner Name:	REINDEER, INC
Total Tanks:	1	Region:	STATE
Owner Address:	100, E. 4TH ST SANTA ANA, CA 92701		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00007600	Year Installed:	Not reported
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Visual, Stock Inventor		
Contact Name:	G P HEIDIER	Telephone:	(714) 835-8350
Facility Type:	Other	Other Type:	TOWING

B4 VITEC INC. HIST UST U001578140
NE 1043 E 4TH ST N/A
< 1/8 SANTA ANA, CA 92702
462 ft.

Site 1 of 3 in cluster B

Relative: Higher
Actual: 133 ft.

UST HIST:

Facility ID:	24905	Owner Name:	VITEC INC.
Total Tanks:	1	Region:	STATE
Owner Address:	1043 E. 4TH ST. SANTA ANA, CA 92702		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	1
Tank Capacity:	00005500	Year Installed:	1970
Type of Fuel:	Not reported	Tank Construction:	Not Reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
7 West < 1/8 564 ft.	TOM S TRUCK CENTER INC 936 E 3RD ST SANTA ANA, CA 92701	RCRA-SQG	1000594330 CAD983581497

Relative: Lower
Actual: 128 ft.

RCRAInfo:
Owner: GEORGE HEIDLER (415) 555-1212
EPA ID: CAD983581497
Contact: GEORGE HEIDLER (714) 835-8350
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
B8 NE < 1/8 584 ft.	CONNELLY MACH 420 TERMINAL ST SANTA ANA, CA 92701	RCRA-SQG	1000595362 CAD983592981

Site 3 of 3 in cluster B

Relative: Higher
Actual: 134 ft.

RCRAInfo:
Owner: RAY CONNELLY (415) 555-1212
EPA ID: CAD983592981
Contact: CONNELLY RAY (714) 558-6855
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
C9 SSW < 1/8 610 ft.	BERLIN TIRE CTR 115 N STANDARD SANTA ANA, CA 92701	RCRA-SQG	1000596574 CAD983605486

Site 2 of 2 in cluster C

Relative: Lower
Actual: 127 ft.

RCRAInfo:
Owner: BERLIN TIRE CTR (714) 547-7155
EPA ID: CAD983605486
Contact: THAYLE DENNEY (714) 547-7155
Classification: Small Quantity Generator
TSDF Activities: Not reported

Map ID / Direction / Distance / Distance (ft.) / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
	STON & VAN DYKE (Continued)		1000303945

RCRAInfo:
Owner: PAUL JONES
(415) 555-1212
EPA ID: CAD029371630
Contact: Not reported
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

D12 ENE 1/8-1/4 754 ft. Relative: Higher Actual: 134 ft.	**JOHNSON ENTERPRISES** 1114 E 4TH ST SANTA ANA, CA 92701 Site 1 of 2 in cluster D	RCRA-SQG	1000820199 CAD983662263

RCRAInfo:
Owner: KENNETH E JOHNSON
(714) 547-8322
EPA ID: CAD983662263
Contact: KENNETH JOHNSON
(714) 547-8322
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

---

13 WNW 1/8-1/4 766 ft. Relative: Lower Actual: 129 ft.	FEDERAL DISPOSAL SERVICES 922 E 4TH ST SANTA ANA, CA 92701	RCRA-SQG	1000594491 CAD983583220

RCRAInfo:
Owner: DONALD B SHUBIN
(415) 555-1212
EPA ID: CAD983583220
Contact: SHUBIN DONALD
(714) 542-7701
Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

RICE AUTO PARTS (Continued) 1000195373

Monitoring: Not reported
Close Date: Not reported
Release Date: 08/15/1991
Cleanup Fund Id : Not reported
Discover Date : 08/15/1991
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 7/26/1991 0:00
Funding: Not reported
Staff Initials: JB
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: UNK
Leak Source: UNK
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : VJJ
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: COASTAL PLAIN OF ORA
Operator : Y. S. YOON
Oversight Prgm: LUST
Review Date : 8/27/1991 0:00
Stop Date : 08/15/1991
Work Suspended : Not reported
Responsible Party RICE AUTO PARTS
RP Address: 905 EAST 2ND STREET SANTA ANA CA 92701
Global Id: T0605901427
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 0
Mtbe Fuel: 1
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary : 50 PPM TPHG GW 10/90, 9/24 QR. 1/2 QR. ACHD REQ WKPLN FOR GW INVESTIGATION IN CONJUNCTION W/ NEIGHBORING SITE-11/98.

LUST Region 8:
Region: 8 Cross Street: Not reported
Regional Board: 08
Local Case Num: Not reported
Facility Status: Preliminary site assessment workplan submitted
Staff: VJJ
Facility Contact: Not reported
Lead Agency: Local Agency
Local Agency: Santa Ana Fire Dept.
Qty Leaked: Not reported
County: Orange
Cleanup Fund Id : Not reported

RICE AUTO PARTS (Continued) 1000195373

dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Reclamation: Not reported
POTW: Not reported
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: Not reported

E16
South
1/8-1/4
871 ft.

Relative:
Lower

Actual:
125 ft.

EDISON GAS AND ELECTRIC CO. Coal Gas G000000918
1005 E. WALNUT (NOTE: LARGE SITE, SEE NOTES.) N/A
SANTA ANA, CA 92701

Site 1 of 2 in cluster E

COAL GAS SITE DESCRIPTION:
1904, Edison Gas and Electric Co. is on northeast corner of E. Walnut and Minnie Southern Counties Gas Co. occupies site which has expanded to include east side 1st and E. Walnut; southwest corner of Minnie and Walnut and northwest corner of

©Copyright 1993 Real Property Scan, Inc.

D17
ENE
1/8-1/4
876 ft.

Relative:
Higher

Actual:
135 ft.

ANGELICA HEALTHCARE SERVICES G HIST UST U001578069
1111 E 4TH ST N/A
SANTA ANA, CA 92701

Site 2 of 2 in cluster D

UST HIST:

Facility ID:	11189	Owner Name:	ANGELICA HEALTHCARE SERVICES G
Total Tanks:	2	Region:	STATE
Owner Address:	600 NORTH EUCLID-3RD FLOOR ANAHEIM, CA 92801		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	G-14-1
Tank Capacity:	00003000	Year Installed:	Not reported
Type of Fuel:	REGULAR	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	LOU SILVER	Telephone:	(714) 547-4135
Facility Type:	Other	Other Type:	LINEN SUPPLY

Facility ID:	11189	Owner Name:	ANGELICA HEALTHCARE SERVICES G
Total Tanks:	2	Region:	STATE
Owner Address:	600 NORTH EUCLID-3RD FLOOR ANAHEIM, CA 92801		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	0-14-1
Tank Capacity:	00009000	Year Installed:	Not reported
Type of Fuel:	DIESEL	Tank Construction:	Not Reported
Leak Detection:	Stock Inventor		
Contact Name:	LOU SILVER	Telephone:	(714) 547-4135
Facility Type:	Other	Other Type:	LINEN SUPPLY

FREEWAY AUTO WRECKERS (Continued) 1001491827

Alternate Name(s): ALL AUTO SALVAGE
NATIONAL SALVAGE
FORMER FOWLER PROPERTY
FREEWAY AUTO WRECKERS

Address(es): 1041 EAST 6TH STREET
SANTA ANA, CA 92709

Background Info: Former operations at the site have apparently included the manufacturing of agriculture chemicals insecticides and liquid fertilizers. A battery manufacturing business has also been reported as having operated on or adjacent to this site. High concentrations of lead and antimony have been detected in the soil. Currently the site is an abandoned lot, with bare soil on the surface. Sampling events occurred on 2/88, 2/91, and 8/94 in which many contaminants were detected. DTSC has sent letters to the managers, inviting them to perform a preliminary endargerment assessment on this site, however they have not responded.
Not reported
Not reported
Not reported
Not reported
Not reported
Not reported

Facility Id :	Not reported
AWP Activities Code :	Not reported
DTSC Site Activity Code :	Not reported
Activity Code Def:	Not reported
AWP Activity Id :	Not reported
Dt Activity Due For Completion :	Not reported
Revised Due Date :	Not reported
Date Activity Completed :	Not reported
Est # Of Person-years To Complete :	Not reported
Est. Size Of An Activity Code :	Not reported
Site Status When Activity Commitment Made :	Not reported
Status Code Definition :	Not reported
Cubic Yards Of Solids Removed At Completion :	Not reported
Gallons Of Liquid Removed Upon Completion :	Not reported
Cubic Yards Of Solids Treated Upon Completion :	Not reported
Actvty Deleted Via Commitmnt/Completns Screen :	Not reported

Special Program Code: Not reported
Special Program : Not reported
Comments Date : 04011998
Comments : Not reported
Site screening performed. Recommended further site investigation under state lead. High priority under EPA Cooperative Agreement.

F19
NNE
1/8-1/4
958 ft.

LESTER FOWLER RECEIVERSHIP
1041 E 6TH ST
SANTA ANA, CA 92701

Site 2 of 3 in cluster F

RCRA-SQG 1000595841
CAD983597964

Relative:
Higher

Actual:
135 ft.

G21
NNW
1/8-1/4
993 ft.

KNOX INDUSTRIAL SUPPLY
1000 MCFADDEN AVE
SANTA ANA, CA 92705

LUST

S104539409
N/A

Site 1 of 4 in cluster G

Relative:
Higher

Actual:
132 ft.

State LUST:

Cross Street:	WRIGHT		
Qty Leaked:	0		
Case Number	083003041T		
Reg Board:	8		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Local Agency :	30020		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	7/23/1997 0:00	Confirm Leak:	7/23/1997 0:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	7/23/1997 0:00		
Monitoring:	Not reported		
Close Date:	07/24/1997		
Release Date:	08/01/1997		
Cleanup Fund Id :	Not reported		
Discover Date :	07/24/1997		
Enforcement Dt :	Not reported		
Enf Type:	CLOS		
Enter Date :	Not reported		
Funding:	Not reported		
Staff Initials:	JB		
How Discovered:	Not reported		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Not reported		
Leak Source:	Not reported		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	VJJ		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	COASTAL PLAIN OF ORA		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	Not reported		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party	KNOX PROPERTIES		
RP Address:	Not reported		
Global Id:	T0605902074		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	0		
Mtbe Fuel:	1		
Water System Name:	Not reported		

KNOX INDUSTRIAL SUPPLY (Continued) S104539409

Summary : GASOLINE CONTAMINATED SOIL LIMITED TO UNDER THE DISPENSER. SOIL WAS EXCAVATED TO CLEAN. NO FURTHER ACTION NECESSARY.(PER SANTA ANA FIRE DEPT.)

G22
NNW
1/8-1/4
997 ft.

Relative:
Higher

Actual:
132 ft.

BARRE ENGINEERING & CONSTRUCTION INC LUST S106163772
1000 6TH ST N/A
SANTA ANA, CA 92701

Site **2** of **4** In cluster **G**

State LUST:

Cross Street:	Not reported		
Qty Leaked:	0		
Case Number	083003690T		
Reg Board:	8		
Chemical:	Gasoline		
Lead Agency:	Local Agency		
Local Agency :	30020		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	05/19/1999		
Release Date:	05/19/1999		
Cleanup Fund Id :	Not reported		
Discover Date :	/ /		
Enforcement Dt :	Not reported		
Enf Type:	CLOS		
Enter Date :	5/18/1999 0:00		
Funding:	Not reported		
Staff Initials:	MIK		
How Discovered:	Not reported		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Not reported		
Leak Source:	Not reported		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	RS		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	COASTAL PLAIN OF ORA		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	5/18/1999 0:00		
Stop Date :	/ /		
Work Suspended :	No		
Responsible Party	BARRE ENGINEERING & CONST.		
RP Address:	Not reported		
Global Id:	T0605999107		
Org Name:	Not reported		

BARRE ENGINEERING & CONSTRUCTION INC (Continued) S106387417

MTBE Class: *
Case Type: S
How Stopped Date: Not reported
MTBE Concentration: 0
MTBE Fuel: 1
Case Number: 083003690T
Substance: 8006619
Staff: RS
Summary : Not reported

G24
NNW
1/8-1/4
997 ft.

Relative:
Higher

Actual:
132 ft.

S G ROOFING
1000 E 6TH ST
SANTA ANA, CA 92701

RCRA-SQG 1000130237
CAD981999071

Site 4 of 4 in cluster G

RCRAInfo:
Owner: ROGER GLAZER
(415) 555-1212
EPA ID: CAD981999071
Contact: ENVIRONMENTAL MANAGER
(714) 558-1587
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

E25
South
1/8-1/4
1004 ft.

Relative:
Lower

Actual:
124 ft.

GEORGE'S RECYCLING CTR
930 E WALNUT STREET
SANTA ANA, CA 92701

RCRA-SQG 1001085671
CAR000009951

Site 2 of 2 in cluster E

RCRAInfo:
Owner: DILVA S JOHNSON
(714) 547-9079
EPA ID: CAR000009951
Contact: JORGE CASTANEDA
(714) 547-9079
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

H26
NNE
1/8-1/4
1083 ft.

Relative:
Higher

Actual:
136 ft.

G.W. MAINTENANCE, INC
1102 E 6TH ST
SANTA ANA, CA 92701

HIST UST U001578089
N/A

Site 1 of 2 in cluster H

UST HIST:
Facility ID: 65056
Total Tanks: 2
Owner Address: 1061 E. 6TH STREET
SANTA ANA, CA 92701
Owner Name: G W MAINTENANCE INC.
Region: STATE

BEN WARNER TOWING (Continued) 1000595848

Violation Status: No violations found

WDS:

Facility ID:	Santa Ana River 30I005138		
Facility Contact	BOB VANCE	Facility Telephone	(714) 542-7241
SIC Code:	0	SIC Code 2:	Not reported
Agency Name:	BEN WARNER'S GARAGE INC.		
Agency Address:	1301 E ORANGEWOOD AVE STE 130 ANAHEIM 92805		
Agency Contact:	CINDI R GALFIN	Agency Phone:	(714) 385-1522
Design Flow:	Not reported	Baseline Flow:	Not reported
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Private		
Waste Type:	Not reported		
Threat to Water:	Not reported		
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.		
Reclamation:	Not reported		
POTW:	Not reported		
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board		
Subregion:	Not reported		

I29
SW
1/8-1/4
1137 ft.

Relative:
Lower

Actual:
124 ft.

JAPANESE MTRS
826 E 1ST ST
SANTA ANA, CA 92701

RCRA-SQG 1000595849
CAD983598046

Site 2 of 3 In cluster I

RCRAInfo:

Owner:	JAPANESE MTRS
	(415) 555-1212
EPA ID:	CAD983598046
Contact:	RAMIRO LOPEZ
	(714) 972-1505
Classification:	Small Quantity Generator
TSDF Activities:	Not reported

Violation Status: No violations found

M G AND T TRANSMISSION (Continued) 1004675711

Violation Status: No violations found

H33
NNE
1/8-1/4
t177 ft.

LIEBERT SCRAP METALS INC
1051 E SIXTH ST
SANTA ANA, CA 92701

RCRA-SQG 1000163204
CAD981170319

Site 2 of 2 in cluster H

Relative:
Higher

Actual:
t37 ft.

RCRAInfo:
Owner: LIEBERT MORTON
(415) 555-1212
EPA ID: CAD981170319
Contact: ENV MGR
(714) 835-3649
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

34
WNW
1/8-1/4
t186 ft.

HEMINGWAYS GARAGE
818 E FOURTH ST
SANTA ANA, CA 92701

RCRA-SQG 1000905327
CA0000483818

Relative:
Lower

Actual:
128 ft.

RCRAInfo:
Owner: WALT HEMINGWAY
(714) 827-6211
EPA ID: CA0000483818
Contact: WALT HEMINGWAY
(714) 543-8093
Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

J35
ESE
1/8-1/4
1225 ft.

ARCO 6085
1222 E. 1ST ST.
SANTA ANA, CA 0

UST U003781983
N/A

Site 3 of 6 in cluster J

Relative:
Lower

Actual:
130 ft.

State UST:
Facility ID: 30-020-sa256
Total Tanks: 1
Region: STATE
Local Agency: Santa Ana, Orange County

94902 (Continued) U001578066

Tank Used for: WASTE
Tank Num: 5
Tank Capacity: 00001000
Type of Fuel: Not reported
Leak Detection: Stock Inventor
Contact Name: DOMOSLAI, FRANK
Facility Type: Gas Station
Container Num: 5
Year Installed: Not reported
Tank Construction: 0000370 unknown
Telephone: (714) 542-9207
Other Type: Not reported

J37
ESE
1/8-1/4
1259 ft.

ARCO #6085
1222 1ST ST
SANTA ANA, CA 92701

LUST S105960702
N/A

Site 5 of 6 in cluster J

Relative:
Lower

Actual:
130 ft.

State LUST:
Cross Street: GRAND
Qty Leaked: 0
Case Number 083002162T
Reg Board: 8
Chemical: Gasoline
Lead Agency: Local Agency
Local Agency : 30020
Case Type: Soil only
Status: No Action
Review Date: Not reported
Workplan: Not reported
Pollution Char: 1/1/1965 0:00
Remed Action: Not reported
Monitoring: Not reported
Close Date: 06/24/2002
Release Date: 10/15/1992
Cleanup Fund Id : Not reported
Discover Date : 12/20/1991
Enforcement Dt : Not reported
Enf Type: CLOS
Enter Date : 12/28/1992 0:00
Funding: Not reported
Staff Initials: JB
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Not reported
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : VJJ
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : =
Hydr Basin #: COASTAL PLAIN OF ORA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 5/27/1999 0:00
Stop Date : / /
Work Suspended : Not reported

Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: 1/1/1965 0:00

ARCO #6085 (Continued) S105960702

Case Type:	S
How Stopped Date:	Not reported
MTBE Concentration:	0
MTBE Fuel:	t
Case Number:	083002t62T
Substance:	8006619
Staff:	VJJ
Summary :	Not reported

J38
ESE
1/8-1/4
1261 ft.

TONY K SHOBEIRI
1222 E 1ST ST
SANTA ANA, CA 92667

HIST UST U001577627
N/A

Site 6 of 6 in cluster J

Relative:
Lower

Actual:
130 ft.

UST HIST:

Facility ID:	26849	Owner Name:	ARCO PETROLEUM PRODUCTS CO.
Total Tanks:	5	Region:	STATE
Owner Address:	515 SOUTH FLOWER STREET LOS ANGELES, CA 90071		
Tank Used for:	PRODUCT		
Tank Num:	1	Container Num:	0000000001
Tank Capacity:	00006000	Year Installed:	1973
Type of Fuel:	06	Tank Construction:	0000240 inches
Leak Detection:	Stock Inventor		
Contact Name:	Not reported	Telephone:	(000) 000-0000
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	26849	Owner Name:	ARCO PETROLEUM PRODUCTS CO.
Total Tanks:	5	Region:	STATE
Owner Address:	515 SOUTH FLOWER STREET LOS ANGELES, CA 90071		
Tank Used for:	PRODUCT		
Tank Num:	2	Container Num:	0000000002
Tank Capacity:	00006000	Year Installed:	1970
Type of Fuel:	06	Tank Construction:	0000240 inches
Leak Detection:	Stock Inventor		
Contact Name:	Not reported	Telephone:	(000) 000-0000
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	26849	Owner Name:	ARCO PETROLEUM PRODUCTS CO.
Total Tanks:	5	Region:	STATE
Owner Address:	515 SOUTH FLOWER STREET LOS ANGELES, CA 90071		
Tank Used for:	PRODUCT		
Tank Num:	3	Container Num:	0000000003
Tank Capacity:	00006000	Year Installed:	1970
Type of Fuel:	06	Tank Construction:	0000240 inches
Leak Detection:	Stock Inventor		
Contact Name:	Not reported	Telephone:	(000) 000-0000
Facility Type:	Gas Station	Other Type:	Not reported
Facility ID:	26849	Owner Name:	ARCO PETROLEUM PRODUCTS CO.
Total Tanks:	5	Region:	STATE
Owner Address:	515 SOUTH FLOWER STREET LOS ANGELES, CA 90071		
Tank Used for:	PRODUCT		
Tank Num:	4	Container Num:	0000000004
Tank Capacity:	00006000	Year Installed:	1970

K41 **UNOCAL #5598** **LUST** S105960696
East 315 N. GRAND AVE N/A
1/4-1/2 SANTA ANA, CA 92701
1394 ft.

Site 1 of 2 in cluster K

Relative:
Higher

Actual:
135 ft.

State LUST:

Cross Street:	4TH
Qty Leaked:	0
Case Number	083002004T
Reg Board:	8
Chemical:	Waste Oil
Lead Agency:	Regional Board
Local Agency :	30020
Case Type:	Soil only
Status:	Case Closed
Abate Method:	Vapor Extraction
Review Date:	Not reported
Workplan:	1/10/1992 0:00
Pollution Char:	Not reported
Remed Action:	Not reported
Monitoring:	1/16/1997 0:00
Close Date:	11/06/1998
Release Date:	12/11/1991
Cleanup Fund Id :	Not reported
Discover Date :	09/11/1991
Enforcement Dt :	Not reported
Enf Type:	CLOS
Enter Date :	1/6/1992 0:00
Funding:	Not reported
Staff Initials:	JB
How Discovered:	Tank Closure
How Stopped:	Not reported
Interim :	Not reported
Leak Cause:	UNK
Leak Source:	Tank
MTBE Date :	Not reported
Max MTBE GW :	Not reported
MTBE Tested:	Not Required to be Tested.
Priority:	Not reported
Local Case # :	0
Beneficial:	Not reported
Staff :	NOM
GW Qualifier :	Not reported
Max MTBE Soil :	Not reported
Soil Qualifier :	Not reported
Hydr Basin #:	COASTAL PLAIN OF ORA
Operator :	Not reported
Oversight Prgm:	LUST
Review Date :	1/31/1997 0:00
Stop Date :	/ /
Work Suspended :	Not reported
Responsible Party	UNOCAL
RP Address:	376 S. VALENCIA AVE., BREA, CA 92621
Global Id:	T0605901496
Org Name:	Not reported
Contact Person:	Not reported
MTBE Conc:	0
Mtbe Fuel:	0

Confirm Leak:	Not reported
Prelim Assess:	1/10/1992 0:00
Remed Plan:	Not reported

UNOCAL #5598 (Continued) S105960696

Staff: NOM
Summary : TANKS: 280 W.O. TANK-t t HOLES. CONFIRMATION BORING REPORT DATED t/t6/97

K42
East
1/4-t/2
1395 ft.

Relative:
Higher

Actual:
135 ft.

THRIFTY OIL #377/ ARCO #774t
324 GRAND AVE
SANTA ANA, CA 92701

LUST S103943624
N/A

Site 2 of **2** in cluster **K**

State LUST:

Cross Street:	CHESTNUT		
Qty Leaked:	0		
Case Number	083002247T		
Reg Board:	**8**		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	30020		
Case Type:	Drinking Water Aquifer affected		
Status:	No Action		
Review Date:	5/t/t997 0:00	Confirm Leak:	5/t/1997 0:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	9/26/2000 0:00	Remed Plan:	9/26/2000 0:00
Remed Action:	1/t9/2005 0:00		
Monitoring:	1/t/2005 0:00		
Close Date:	Not reported		
Release Date:	02/23/t993		
Cleanup Fund Id :	Not reported		
Discover Date :	02/t7/1993		
Enforcement Dt :	t t/2/t999 0:00		
Enf Type:	FREV		
Enter Date :	6/21/1993 0:00		
Funding:	Not reported		
Staff Initials:	JB		
How Discovered:	Tank Test		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	Piping		
MTBE Date :	6/6/200t 0:00		
Max MTBE GW :	8940 Parts per Billion		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	PROC, IND, MUN		
Staff :	VJJ		
GW Qualifier :	=		
Max MTBE Soil :	53 Parts per Million		
Soil Qualifier :	=		
Hydr Basin #:	COASTAL PLAIN OF ORA		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	8/t/2002 0:00		
Stop Date :	02/t7/t993		
Work Suspended :	Not reported		
Responsible Party	Chris Panaitescu		
RP Address:	t3539 E. Foster Road		
Global Id:	T060590t646		
Org Name:	Not reported		

THRIFTY OIL #377/ ARCO #7741 (Continued) S103943624

Case Number: 083002247T
Substance: 8006619
Staff: VJJ
Summary : 11/2/99 - mtg w/SAFD, gw case, referred to RB, 2/14/00 - postponed VES extended test

43
ENE
1/4-1/2
1426 ft.

G & M OIL #49
401 GRAND AVE
SANTA ANA, CA 92701

LUST S105624533
N/A

Relative:
Higher

Actual:
136 ft.

State LUST:

Cross Street:	FOURTH STREET		
Qty Leaked:	0		
Case Number	08300283 1T		
Reg Board:	8		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	30020		
Case Type:	Other ground water affected		
Status:	No Action		
Review Date:	2/28/1996 0:00	Confirm Leak:	2/28/1996 0:00
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	5/17/2004 0:00	Remed Plan:	5/17/2004 0:00
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	03/15/1996		
Cleanup Fund Id :	Not reported		
Discover Date :	02/28/1996		
Enforcement Dt :	Not reported		
Enf Type:	FREV		
Enter Date :	6/18/1996 0:00		
Funding:	Not reported		
Staff Initials:	JB		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	AGR, PROC, IND, MUN		
Staff :	VJJ		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	COASTAL PLAIN OF ORA		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	1/3/2002 0:00		
Stop Date :	02/28/1996		
Work Suspended :	Not reported		
Responsible Party:	JENNIFER TALBERT		
RP Address:	15402 ELECTRONIC LANE		
Global Id:	T0605901944		

G & M OIL #49 (Continued) S105624533

MTBE Fuel: t
Case Number: 083002831T
Substance: 8006619
Staff: VJJ
Summary : Not reported

44
WSW
1/4-1/2
1717 ft.

HONEYWELL
514 LYON ST
SANTA ANA, CA 92701

LUST S100864772
N/A

Relative:
Lower

Actual:
123 ft.

State LUST:

Cross Street:	Not reported		
Qty Leaked:	0		
Case Number	08300t938T		
Reg Board:	8		
Chemical:	Unleaded Gasoline		
Lead Agency:	Local Agency		
Local Agency :	30020		
Case Type:	Soil only		
Status:	Case Closed		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	Not reported	Remed Plan:	Not reported
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	t2/0 t/199t		
Release Date:	t0/08/t991		
Cleanup Fund Id :	Not reported		
Discover Date :	t0/08/199t		
Enforcement Dt :	Not reported		
Enf Type:	CLOS		
Enter Date :	t t/t4/199t 0:00		
Funding:	Not reported		
Staff Initials:	JB		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	Overfill		
Leak Source:	UNK		
MTBE Date :	Not reported		
Max MTBE GW :	Not reported		
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.		
Priority:	Not reported		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	NOM		
GW Qualifier :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifier :	Not reported		
Hydr Basin #:	COASTAL PLAIN OF ORA		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	t0/31/t991 0:00		
Stop Date :	/ /		
Work Suspended :	Not reported		
Responsible Party	HONEYWELL		
RP Address:	514 S. LYON SANTA ANA CA		
Global Id:	T060590t444		

HONEYWELL (Continued) S100864772

MTBE Fuet: 1
Case Number: 083001938T
Substance: 12031
Staff: NOM
Summary : Not reported

45 GfLBERT AND STEARNS LUST S103249112
West 609 4TH ST N/A
1/4-1/2 SANTA ANA, CA 92712
1850 ft.

Relative:
Lower

Actual:
126 ft.

State LUST:
Cross Street: MINTER
Qty Leaked: 0
Case Number 083003121T
Reg Board: 8
Chemical: Gasoline
Lead Agency: Local Agency
Local Agency : 30020
Case Type: Soil only
Status: Leak being confirmed
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Review Date: 1/1/1965 0:00
Confirm Leak: 1/1/1965 0:00
Workplan: Not reported
Prelim Assess: Not reported
Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: 08/10/200 t
Release Date: 01/21/1998
Cleanup Fund Id : Not reported
Discover Date : 08/16/1991
Enforcement Dt : Not reported
Enf Type: CLOS
Enter Date : 2/11/1998 0:00
Funding: Not reported
Staff Initials: JB
How Discovered: Not reported
How Stopped: Not reported
Interim : Not reported
Leak Cause: Not reported
Leak Source: Not reported
MTBE Date : Not reported
Max MTBE GW : Not reported
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Priority: Not reported
Local Case # : 0
Beneficial: Not reported
Staff : CAB
GW Qualifier : Not reported
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: COASTAL PLAIN OF ORA
Operator : Not reported
Oversight Prgm: LUST
Review Date : 2/11/1998 0:00
Stop Date : / /
Work Suspended :Not reported
Responsible PartyGILBERT AND STEARNS

GILBERT AND STEARNS (Continued) S103249112

MTBE Class: *
Case Type: S
How Stopped Date: Not reported
MTBE Concentration: 0
MTBE Fuel: 1
Case Number: 083003121T
Substance: 8006619
Staff: CAB
Summary : Not reported

L46
NNE
1/4-1/2
1900 ft.

ORANGE COUNTY FRUIT STREET SHOPS
1102 E FRUIT ST
SANTA ANA, CA 92701

RCRA-SQG 1000315132
LUST CAD981678063

Site 1 of 2 in cluster L

Relative:
Higher

Actual:
142 ft.

RCRAInfo:
Owner: ORANGE COUNTY
(415) 555-1212
EPA ID: CAD981678063

Contact: ENVIRONMENTAL MANAGER
(714) 834-2140

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

State LUST:
Cross Street: FULLER
Qty Leaked: 0
Case Number 083002232T
Reg Board: 8
Chemical: Waste Oil
Lead Agency: Local Agency
Local Agency : 30020
Case Type: Soil only
Status: Remedial action (cleanup) Underway
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Review Date: 3/3/1993 0:00
Confirm Leak: 3/3/1993 0:00
Workplan: Not reported
Prelim Assess: Not reported
Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: 3/4/1993 0:00
Monitoring: Not reported
Close Date: Not reported
Release Date: 03/04/1993
Cleanup Fund Id : Not reported
Discover Date : 03/03/1993
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 6/1/1993 0:00
Funding: Not reported
Staff Initials: JB
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Leak Cause: Overfill
Leak Source: Piping

ASCO CHEMICAL (Continued) S101589681

Air District Code :	SC
SIC Code :	2851
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	30
County ID :	30
Total Organic Hydrocarbon Gases Tons/Yr:	7.83648990
Reactive Organic Gases Tons/Yr:	4.83346689
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr :	0
Part. Matter 10 Micrometers and Smaller Tons/Yr :	0

Year :	1990
Facility ID :	6624
Air District Code :	SC
SIC Code :	2851
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	30
County ID :	30
Total Organic Hydrocarbon Gases Tons/Yr:	2.10000000
Reactive Organic Gases Tons/Yr:	1.83513000
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr :	0
Part. Matter 10 Micrometers and Smaller Tons/Yr :	0

Year :	1993
Facility ID :	6624
Air District Code :	SC
SIC Code :	2851
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	30
County ID :	30
Total Organic Hydrocarbon Gases Tons/Yr:	t2.90000000
Reactive Organic Gases Tons/Yr:	5.16964000
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr :	0
Part. Matter 10 Micrometers and Smaller Tons/Yr :	0

Year :	1995
Facility ID :	6624
Air District Code :	SC
SIC Code :	2851
Air Basin :	SC

ASCO CHEMICAL (Continued) S101589681

County Code :	30
County ID :	30
Total Organic Hydrocarbon Gases Tons/Yr:	10.11442600
Reactive Organic Gases Tons/Yr:	5.68595529
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr :	0
Part. Matter 10 Micrometers and Smaller Tons/Yr :	0

Year :	2001
Facility ID :	6624
Air District Code :	SC
SIC Code :	2851
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	30
County ID :	30
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr :	0
Part. Matter 10 Micrometers and Smaller Tons/Yr :	0

Year :	2002
Facility ID :	6624
Air District Code :	SC
SIC Code :	2851
Air Basin :	SC
Air District Name :	SOUTH COAST AQMD
Community Health Air Pollution Info System :	Not reported
Consolidated Emission Reporting Rule :	Not reported
County Code :	30
County ID :	30
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr :	0
Part. Matter 10 Micrometers and Smaller Tons/Yr :	0

51
NE
1/4-1/2
2425 ft.

REASON BUICK (FORMER)
839 GRAND AVE
SANTA ANA, CA 92701

LUST S102435725
N/A

Relative:
Higher

Actual:
153 ft.

State LUST:

Cross Street:	FRUIT
Qty Leaked:	0
Case Number	083002690T
Reg Board:	8
Chemical:	Hydraulic Oil
Lead Agency:	Local Agency
Local Agency :	30020

REASON BUICK (FORMER) (Continued) S102435725

Facility Contact:	Not reported		
Lead Agency:	Local Agency		
Local Agency:	Santa Ana Fire Dept.		
Qty Leaked:	Not reported		
County:	Orange		
Cleanup Fund Id :	Not reported		
Review Date:	Not reported	Confirm Leak:	Not reported
Workplan:	Not reported	Prelim Assess:	Not reported
Pollution Char:	1/1/1965	Remed Plan:	1/1/1965
Remed Action:	Not reported	Monitoring:	Not reported
Close Date:	8/9/1995		
Discover Date :	5/18/1995		
Enforcement Dt :	Not reported		
Enf Type:	CLOS		
Enter Date :	Not reported		
Funding:	Not reported		
Staff Initials:	JB		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Lat/Lon :	33.7531084 / -117.851656		
Leak Cause:	UNK		
Leak Source:	Piping		
Beneficial:	Not reported		
MTBE Date :	Not reported		
MTBE Tested :	NRQ		
Max MTBE GW :	Not reported		
GW Qualifies :	Not reported		
Max MTBE Soil :	Not reported		
Soil Qualifies :	Not reported		
Hydr Basin #:	COASTAL PLAIN OF ORA		
Oversight Prgm :	LUST		
Global ID:	T0605901867		
Organization Name:	Not reported		
Priority :	Not reported		
Work Suspended :	Not reported		
MTBE Class:	*		
Case Type:	S		
How Stopped Date:	5/18/1995		
MTBE Concentration:	0		
MTBE Fuel:	0		
Case Number:	083002690T		
Substance:	14		
Staff:	NOM		
Summary :	Not reported		

52
NNW
1/4-1/2
2453 ft.

RELIANCE ELECTRIC
1025
SANTA ANA, CA 92701

LUST S104748383
N/A

Relative:
Higher

Actual:
142 ft.

State LUST:

Cross Street:	WASHINGTON
Qty Leaked:	0
Case Number	083003523T
Reg Board:	8
Chemical:	Diesel
Lead Agency:	Local Agency
Local Agency :	30020

RELIANCE ELECTRIC (Continued) S104748383

Facility Contact: Not reported
Lead Agency: Local Agency
Local Agency: Santa Ana Fire Dept.
Qty Leaked: Not reported
County: Orange
Cleanup Fund Id : Not reported
Review Date: 8/2/1999
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Close Date: Not reported
Discover Date : 6/30/1999
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 9/1/1999
Funding: Responsible Party
Staff Initials: JB
How Discovered: OM
How Stopped: Not reported
Interim : Not reported
Lat/Lon : 33.7537733 / -117.8586552
Leak Cause: UNK
Leak Source: UNK
Beneficial: Not reported
MTBE Date : Not reported
MTBE Tested : NRQ
Max MTBE GW : Not reported
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: COASTAL PLAIN OF ORA
Oversight Prgm : LUST
Global ID: T0605902315
Organization Name: Not reported
Priority : Not reported
Work Suspended : No
MTBE Class: *
Case Type: S
How Stopped Date: 6/30/1999
MTBE Concentration: 0
MTBE Fuel: 0
Case Number: 083003523T
Substance: 12034
Staff: RS
Summary : Not reported

Confirm Leak: 8/2/1999
Prelim Assess: Not reported
Remed Plan: Not reported
Monitoring: Not reported

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53 **HPL MECHANICAL** LUST S101589671
North 1041 LOGAN ST N/A
1/4-1/2 **SANTA ANA, CA 92701**
2497 ft.

Relative: Higher
Actual: 144 ft.

State LUST:
Cross Street: WASHINGTON AVENUE
Qty Leaked: 0
Case Number 083003633T
Reg Board: 8
Chemical: Gasoline
Lead Agency: Local Agency
Local Agency : 30020

HPL MECHANICAL (Continued) S101589671

Facility Contact: Not reported
Lead Agency: Local Agency
Local Agency: Santa Ana Fire Dept.
Qty Leaked: Not reported
County: Orange
Cleanup Fund Id : Not reported
Review Date: 12/23/1999
Workplan: Not reported
Poflution Char: Not reported
Remed Action: Not reported
Close Date: Not reported
Discover Date : 12/23/1999
Enforcement Dt : Not reported
Enf Type: Not reported
Enter Date : 2/9/2000
Funding: Not reported
Staff Initials: JB
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Lat/Lon : 33.75592471 / -117.8571522
Leak Cause: UNK
Leak Source: UNK
Beneficial: Not reported
MTBE Date : Not reported
MTBE Tested : NT
Max MTBE GW : Not reported
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: COASTAL PLAIN OF ORA
Oversight Prgm : LUST
Global ID: T0605902352
Organization Name: Not reported
Priority : Not reported
Work Suspended :No
MTBE Class: *
Case Type: S
How Stopped Date: 12/22/1998
MTBE Concentration: 0
MTBE Fuel: 1
Case Number: 083003633T
Substance: 8006619
Staff: RS
Summary : Not reported

Confirm Leak: 12/23/1999
Prelim Assess: Not reported
Remed Plan: Not reported
Monitoring: Not reported

54
NNE
1/4-1/2
2616 ft.

REASON BUICK
909 GRAND AVE
SANTA ANA, CA 92701

LUST S104748380
N/A

Relative:
Higher

Actual:
157 ft.

State LUST:
Cross Street: FRUIT
Qty Leaked: 0
Case Number 083002571T
Reg Board: 8
Chemical: Waste Oil
Lead Agency: Local Agency
Local Agency : 30020

REASON BUICK (Continued) S104748380

Facility Status: Preliminary site assessment workplan submitted
Staff: NOM
Facility Contact: Not reported
Lead Agency: Local Agency
Local Agency: Santa Ana Fire Dept.
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Qty Leaked: Not reported
County: Orange
Cleanup Fund Id : Not reported
Review Date: Not reported
Workplan: Not reported
Pollution Char: Not reported
Remed Action: Not reported
Close Date: 2/16/1995
Discover Date : 9/28/1994
Enforcement Dt : Not reported
Enf Type: CLOS
Enter Date : 12/19/1994
Funding: Not reported
Staff Initials: JB
How Discovered: Tank Closure
How Stopped: Not reported
Interim : Not reported
Lat/Lon : 33.7538034 / -117.85168
Leak Cause: UNK
Leak Source: Piping
Beneficial: Not reported
MTBE Date : Not reported
MTBE Tested : NRQ
Max MTBE GW : Not reported
GW Qualifies : Not reported
Max MTBE Soil : Not reported
Soil Qualifies : Not reported
Hydr Basin #: COASTAL PLAIN OF ORA
Oversight Prgm : LUST
Global ID: T0605901802
Organization Name: Not reported
Priority : Not reported
Work Suspended : Not reported
MTBE Class: *
Case Type: S
How Stopped Date: Not reported
MTBE Concentration: 0
MTBE Fuel: 0
Case Number: 083002571T
Substance: 12035
Staff: NOM
Summary : Not reported

Confirm Leak: Not reported
Prelim Assess: Not reported
Remed Plan: Not reported
Monitoring: Not reported

EECO (Continued) 1000323973

Date Violation Determined: 09/03/1992
Actual Date Achieved Compliance: 10/09/1992

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/03/1992
Penalty Type: Final Monetary Penalty

Regulation Violated: 262.40-43.D
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 09/02/1992
Actual Date Achieved Compliance: 10/09/1992

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 09/02/1992
Penalty Type: Final Monetary Penalty

Regulation Violated: 268 ALL
Area of Violation: TSD-LAND BAN REQUIREMENTS
Date Violation Determined: 02/14/1989
Actual Date Achieved Compliance: 05/16/1989

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1989
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/31/1989
Penalty Type: Not reported

Regulation Violated: 268.7
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS
Date Violation Determined: 02/14/1989
Actual Date Achieved Compliance: 05/16/1989

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1989
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/31/1989
Penalty Type: Not reported

Regulation Violated: 270
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 02/14/1989
Actual Date Achieved Compliance: 05/16/1989

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1989
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 03/31/1989
Penalty Type: Not reported

Regulation Violated: 264.140-150.H
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 02/08/1989
Actual Date Achieved Compliance: 06/19/1989

Enforcement Action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement Action Date: 03/08/1989
Penalty Type: Not reported

Regulation Violated: 270

EECO (Continued) 1000323973

Total Tanks: 7
Owner Address: 1601 E. CHESTNUT AVENUE
SANTA ANA, CA 92701
Tank Used for: PRODUCT
Tank Num: 1
Tank Capacity: 00010000
Type of Fuel: UNLEADED
Leak Detection: Stock Inventor
Contact Name: NORMAN A. MEYER, P.E.
Facility Type: Other
Region: STATE
Container Num: 1601-01
Year Installed: 1958
Tank Construction: Not Reported
Telephone: (714) 835-6000
Other Type: ELECTRONIC MFG.

Facility ID: 16669
Total Tanks: 7
Owner Address: 1601 E. CHESTNUT AVENUE
SANTA ANA, CA 92701
Tank Used for: PRODUCT
Tank Num: 2
Tank Capacity: 00010000
Type of Fuel: UNLEADED
Leak Detection: Stock Inventor
Contact Name: NORMAN A. MEYER, P.E.
Facility Type: Other
Owner Name: EECO INCORPORATED
Region: STATE
Container Num: 1601-02
Year Installed: 1958
Tank Construction: Not Reported
Telephone: (714) 835-6000
Other Type: ELECTRONIC MFG.

Facility ID: 16669
Total Tanks: 7
Owner Address: 1601 E. CHESTNUT AVENUE
SANTA ANA, CA 92701
Tank Used for: WASTE
Tank Num: 3
Tank Capacity: 00001400
Type of Fuel: REGULAR
Leak Detection: None
Contact Name: NORMAN A. MEYER, P.E.
Facility Type: Other
Owner Name: EECO INCORPORATED
Region: STATE
Container Num: 1441-01
Year Installed: Not reported
Tank Construction: 6" inches
Telephone: (714) 835-6000
Other Type: ELECTRONIC MFG.

Facility ID: 16669
Total Tanks: 7
Owner Address: 1601 E. CHESTNUT AVENUE
SANTA ANA, CA 92701
Tank Used for: WASTE
Tank Num: 4
Tank Capacity: 00001600
Type of Fuel: Not reported
Leak Detection: None
Contact Name: NORMAN A. MEYER, P.E.
Facility Type: Other
Owner Name: EECO INCORPORATED
Region: STATE
Container Num: 1441-02
Year Installed: 1978
Tank Construction: 6" inches
Telephone: (714) 835-6000
Other Type: ELECTRONIC MFG.

Facility ID: 16669
Total Tanks: 7
Owner Address: 1601 E. CHESTNUT AVENUE
SANTA ANA, CA 92701
Tank Used for: WASTE
Tank Num: 5
Tank Capacity: 00001500
Type of Fuel: Not reported
Leak Detection: Stock Inventor
Contact Name: NORMAN A. MEYER, P.E.
Owner Name: EECO INCORPORATED
Region: STATE
Container Num: 1441-03
Year Installed: Not reported
Tank Construction: 6" inches
Telephone: (714) 835-6000

EECO (Continued)

t000323973

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr : 0
Part. Matter 10 Micrometers and Smaller Tons/Yr : 0

56
West
1/2-1
3746 ft.

SANTA ANNA GAS & ELECTRIC CO.
206-214 N. SYCAMORE
SANTA ANNA, CA 92701

Coal Gas

G000000917
N/A

Relative:
Lower

Actual:
117 ft.

COAL GAS SITE DESCRIPTION:
Santa Ana Gas Works is on northwest corner of Sycamore and Second Streets. t895 ta Ana Gas and Electric Co. By t906, site is expanded north along Sycamore and tric Co. By t945, Southern California Edison Co. Limited has transformer statio

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/28/05
Date Made Active at EDR: 05/16/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/04/05
Elapsed ASTM days: 12
Date of Last EDR Contact: 05/04/05

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites
Source: EPA
Telephone: N/A

Date of Government Version: 04/27/05
Date Made Active at EDR: 05/16/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/04/05
Elapsed ASTM days: 12
Date of Last EDR Contact: 05/04/05

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/15/05
Date Made Active at EDR: 04/06/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/22/05
Elapsed ASTM days: 15
Date of Last EDR Contact: 03/22/05

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 02/t t/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/30/05
Date of Next Scheduled EDR Contact: 06/27/05

DOD: Department of Defense Sites
Source: USGS
Telephone: 703-692-880t
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: t0/0t/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/08/05
Date of Next Scheduled EDR Contact: 05/09/05

UMTRA: Uranium Mill Tailings Sites
Source: Department of Energy
Telephone: 505-845-00t t
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized. In t978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: t2/29/04
Database Release Frequency: Varies

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

ODI: Open Dump Inventory
Source: Environmental Protection Agency
Telephone: 800-424-9346
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/85
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/23/95
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/03
Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

INDIAN RESERV: Indian Reservations
Source: USGS
Telephone: 202-208-37t0
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: t0/0t/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/08/05
Date of Next Scheduled EDR Contact: 05/09/05

US ENG CONTROLS: Engineering Controls Sites List
Source: Environmental Protection Agency
Telephone: 703-603-8867
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/12/05
Date Made Active at EDR: 06/07/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/12/05
Elapsed ASTM days: 26
Date of Last EDR Contact: 04/13/05

LUST REG 1: Active Toxic Site Investigation
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/01
Date Made Active at EDR: 03/29/01
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/28/01
Elapsed ASTM days: 29
Date of Last EDR Contact: 02/23/05

LUST REG 2: Fuel Leak List
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457

Date of Government Version: 09/30/04
Date Made Active at EDR: 11/19/04
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 10/20/04
Elapsed ASTM days: 30
Date of Last EDR Contact: 04/11/05

LUST REG 3: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147

Date of Government Version: 05/19/03
Date Made Active at EDR: 06/02/03
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 05/19/03
Elapsed ASTM days: 14
Date of Last EDR Contact: 02/14/05

LUST REG 4: Underground Storage Tank Leak List
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/04
Date Made Active at EDR: 10/12/04
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 09/07/04
Elapsed ASTM days: 35
Date of Last EDR Contact: 03/29/05

LUST REG 5: Leaking Underground Storage Tank Database
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291

Date of Government Version: 04/01/05
Date Made Active at EDR: 05/06/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/28/05
Elapsed ASTM days: 8
Date of Last EDR Contact: 04/19/05

LUST REG 6L: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/03
Date Made Active at EDR: 10/07/03
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 09/10/03
Elapsed ASTM days: 27
Date of Last EDR Contact: 04/12/05

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: Environmental Protection Agency
Telephone: 415-972-3372
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/18/05
Date Made Active at EDR: 04/13/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 03/21/05
Elapsed ASTM days: 23
Date of Last EDR Contact: 02/22/05

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land
Source: EPA Region 10
Telephone: 206-553-2857
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/02/05
Date Made Active at EDR: 03/28/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 02/02/05
Elapsed ASTM days: 54
Date of Last EDR Contact: 01/31/05

HIST UST: Hazardous Substance Storage Container Database
Source: State Water Resources Control Board
Telephone: 916-341-5851
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/90
Date Made Active at EDR: 02/12/91
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 01/25/91
Elapsed ASTM days: 18
Date of Last EDR Contact: 07/26/01

STATE OF CALIFORNIA ASTM SUPPLEMENTAL RECORDS

CLEANERS: Cleaner Facilities
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/05
Database Release Frequency: Annually

Date of Last EDR Contact: 04/15/05
Date of Next Scheduled EDR Contact: 07/04/05

CA WDS: Waste Discharge System
Source: State Water Resources Control Board
Telephone: 916-341-5227
Sites which have been issued waste discharge requirements.

Date of Government Version: 03/21/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

DEED: Deed Restriction Listing
Source: Department of Toxic Substances Control
Telephone: 916-323-3400

NFE: Properties Needing Further Evaluation
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 02/07/05
Database Release Frequency: Quarterly
Date of Last EDR Contact: 03/01/05
Date of Next Scheduled EDR Contact: 05/30/05

SLIC: Statewide SLIC Cases
Source: State Water Resources Control Board
Contact: Orange County Environmental Health, (714)433-6471
Contact: Santa Ana City Fire Department, (714) 647-5750
The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/12/05
Database Release Frequency: Varies
Date of Last EDR Contact: 04/13/05
Date of Next Scheduled EDR Contact: 07/11/05

SLIC REG 1: Active Toxic Site Investigations
Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220

Date of Government Version: 04/03/03
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 02/23/05
Date of Next Scheduled EDR Contact: 05/23/05

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/04
Database Release Frequency: Quarterly
Date of Last EDR Contact: 04/11/05
Date of Next Scheduled EDR Contact: 07/11/05

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Any contaminated site that impacts groundwater or has the potential to impact groundwaler.

Date of Government Version: 05/16/05
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 05/16/05
Date of Next Scheduled EDR Contact: 08/15/05

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/04
Database Release Frequency: Varies
Date of Last EDR Contact: 04/25/05
Date of Next Scheduled EDR Contact: 07/25/05

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/05
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 04/05/05
Date of Next Scheduled EDR Contact: 07/04/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Resources List
Source: Dept. of Community Health
Telephone: 559-445-3271
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 03/31/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/19/05
Date of Next Scheduled EDR Contact: 05/09/05

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Kern County Sites and Tanks Listing.

Date of Government Version: 05/10/05
Database Release Frequency: Quanerly

Date of Last EDR Contact: 05/02/05
Date of Next Scheduled EDR Contact: 09/05/05

LOS ANGELES COUNTY:

List of Solid Waste Facilities
Source: La County Department of Public Works
Telephone: 818-458-5185

Date of Government Version: 02/01/05
Database Release Frequency: Varies

Date of Last EDR Contact: 02/18/05
Date of Next Scheduled EDR Contact: 05/16/05

City of El Segundo Underground Storage Tank
Source: City of El Segundo Fire Department
Telephone: 310-524-2236

Date of Government Version: 05/31/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 05/16/05
Date of Next Scheduled EDR Contact: 08/15/05

City of Long Beach Underground Storage Tank
Source: City of Long Beach Fire Department
Telephone: 562-570-2563

Date of Government Version: 03/28/03
Database Release Frequency: Annually

Date of Last EDR Contact: 02/23/05
Date of Next Scheduled EDR Contact: 05/23/05

City of Torrance Underground Storage Tank
Source: City of Torrance Fire Department
Telephone: 310-618-2973

Date of Government Version: 03/24/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/28/05
Date of Next Scheduled EDR Contact: 05/16/05

City of Los Angeles Landfills
Source: Engineering & Construction Division
Telephone: 213-473-7869

Date of Government Version: 03/01/05
Database Release Frequency: Varies

Date of Last EDR Contact: 03/18/05
Date of Next Scheduled EDR Contact: 06/13/05

San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-972-3178
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Tank List
Source: Health Services Agency
Telephone: 951-358-5055

Date of Government Version: 05/24/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/18/05
Date of Next Scheduled EDR Contact: 07/18/05

SACRAMENTO COUNTY:

CS - Contaminated Sites
Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 04/06/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/06/05
Date of Next Scheduled EDR Contact: 08/01/05

SAN DIEGO COUNTY:

Solid Waste Facilities
Source: Department of Health Services
Telephone: 619-338-2209
San Diego County Solid Waste Facilities.

Date of Government Version: 08/01/00
Database Release Frequency: Varies

Date of Last EDR Contact: 02/22/05
Date of Next Scheduled EDR Contact: 05/23/05

SAN FRANCISCO COUNTY:

Local Oversite Facititles
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920

Date of Government Version: 03/09/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/07/05
Date of Next Scheduled EDR Contact: 06/06/05

Underground Storage Tank Information
Source: Department of Public Health
Telephone: 415-252-3920

Date of Government Version: 03/09/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/07/05
Date of Next Scheduled EDR Contact: 06/06/05

SAN MATEO COUNTY:

Fuel Leak List
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

Date of Government Version: 05/05/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/11/05
Date of Next Scheduled EDR Contact: 07/11/05

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report
Source: Santa Clara Valley Water District
Telephone: 408-265-2600

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Tank Closed Sites List
Source: Environmental Health Division
Telephone: 805-654-2813
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/30/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/15/05
Date of Next Scheduled EDR Contact: 07/11/05

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Source: Yolo County Department of Health
Telephone: 530-666-8646

Date of Government Version: 04/19/05
Database Release Frequency: Annually

Date of Last EDR Contact: 04/18/05
Date of Next Scheduled EDR Contact: 07/18/05

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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BROWNFIELDS DATABASES

VCP: Voluntary Cleanup Program Properties
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/07/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/01/05
Date of Next Scheduled EDR Contact: 05/30/05

US BROWNFIELDS: A Listing of Brownfields Sites
Source: Environmental Protection Agency
Telephone: 202-566-2777

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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APPENDIX E

DATABASE ASSESSMENT CRITERIA

REGULATORY DATABASE ASSESSMENT CRITERIA

Research into environmental regulatory agency database listings was performed by a third party environmental regulatory agency database search firm. The purpose of the review was to identify reported environmental issues for the subject property and other properties in the vicinity. The database search firm utilized the more stringent of the approximate minimum search distances specified in the Scope of Work described in Section 1.40 for each of the referenced federal and state environmental databases. The definition of the databases searched and the associated search distances from the subject property are identified in the regulatory agency database search report.

The regulatory agency database search report lists a number of properties identified as "unmappable." The database search firm was unable to confirm the physical locations of these properties relative to the subject property or to assess whether they were located within the designated search radii. SECOR independently reviewed the locations of these "unmappable" properties, to the extent possible, using various maps and our knowledge of the subject property area. Any of the "unmappable" properties determined to be within the designated search radii were included in our evaluation of the various listed properties potential to result in a recognized environmental condition relative to the subject property.

SECOR reviewed the results of the database search report to note reported release sites in the vicinity of the subject property that were considered to have a potential to have adversely impacted the subject property (i.e., are known to have or are expected to result in recognized environmental conditions). Reported release sites identified in the regulatory agency database search report were evaluated with respect to the nature and extent of a given release, the distance of the reported release site from the subject property, the stratigraphy of soils, the expected soil permeability, and the topographic position of a reported release site with respect to known or expected local and/or regional groundwater flow direction. Those release sites that were considered likely to have impacted the subject property are identified in the report as recognized environmental conditions, as defined in ASTM 1527. Sites that were listed in the database search report, but not identified as a release site (for example, a site listed as a hazardous waste generator but not as having had a release), and sites that were listed as being "closed" were not considered likely to have impacted the subject property.

APPENDIX F

ENVIRONMENTAL PROFESSIONALS QUALIFICATIONS

SECOR

AMY C. ZACH
Staff Geologist

B.S. Environmental Science, 1999, University of California, Riverside
B.S. Geology, 1999, University of California, Riverside

Ms. Zach has over five years of professional experience in the environmental consulting field. She has worked on and written health and safety plans, groundwater monitoring reports, Phase I ESAs, Phase II reports, proposals, and draft environmental impact reports/statements. She has also worked on permitting at the city and county level. Her project experience is presented below.

Project Experience

- Completed over 150 Phase I Environmental Site Assessments in 23 states. Responsibilities included property owner/tenant interviews, interviews with city and county departments; site reconnaissance; environmental database records searches and reviews; report preparation and submittal.

- Multiple Phase II projects in California, Oregon, and Washington. Responsibilities included marking boring locations, job set up with driller, logging the boring, collecting soil and groundwater samples, preparing chain-of-custody forms, and report writing.

- Completed site assessment activities at the Shell terminal in Portland, Oregon. Responsibilities included oversight of hollow stem auger drilling, well installations, soil and water sample collection, daily health and safety meetings, preparing chain-of-custody forms and daily log sheets.

- Groundwater monitoring. Duties included scheduling, invoicing, collecting water levels, purging water, collecting samples, and preparing chain-of-custody forms.

- Phase II, Beaver Engraving. Assisted in hand-augering five borings and collecting soil samples at various depths. Duties included field documentation, preparing chain-of-custody forms and site map.

- Baseline site investigations. Responsibilities included marking boring locations, job set up with driller, drilling to 30 feet at 10 or 15 degrees, logging the boring, collecting soil samples, preparing chain-of-custody forms and report writing.

- Installed two groundwater monitoring wells to 100 feet. Responsibilities included marking well locations, job set up with driller, onsite meeting with Department of Transportation, well installation, soil sample collection, preparing chain-of-custody forms and permitting.

- Phase I, AT&T. Completed several Phase I projects for various cell sites throughout southern California. These evaluations have included property owner/tenant interviews, interviews with utility companies; site reconnaissance; on-line environmental database records searches and reviews; report preparation and submittal.

Professional Certifications and Registrations

AHERA Building Inspector (TSCA Title II EPA AHERA/AHARA), August 2002
4-Hour AHERA Building Inspector Refresher, January 15, 2004
8-Hour OSHA Health and Safety Refresher, March 15, 2004
First Aid and CPR, 2004
UST Supervisor License, May 2001
Supervisor HAZWOPER (29 CFR 1910.120), 2000
40-Hour OSHA Health & Safety Certification (29 CFR 1910.120), October 1999

D. HOWE GATES, R.E.H.S.
Principal Scientist

B.S. Environmental Health, 1983, Oregon State University

Mr. Gates has 20 years of diversified professional experience in the fields of environmental consulting, environmental health, and environmental management. During this time, Mr. Gates has been employed as an Environmental Health Officer, Hazardous Waste Specialist, and Supervising Hazardous Waste Specialist for county environmental health departments; as a Senior Environmental Specialist in the solid waste management industry for Waste Management of North America, Inc.; and in the environmental consulting industry for the past 12 years. In addition to his technical skills, Mr. Gates has extensive experience in personnel supervision, business development, client management and project management. Specific project experience includes environmental due diligence investigations (Phase I & Phase II environmental site assessments), hazardous waste investigations, regulatory reviews, underground storage tank (UST) regulatory audits, UST closure investigations, and utility asset (substation) inspection and evaluations.

Management / Business Development Experience

Mr. Gates is a member of SECOR's Real Estate and Financial Services (REFS) business sector management team. In this role, Mr. Gates is national client manager of a SECOR Tier One (>1mm revenue annually) client, and responsible for overall day-to-day operations including responding to requests for proposal, report preparation, report review, quality assurance and quality control, and client management. In addition, Mr. Gates is responsible for business development, business sector operations, and supervision and mentoring of REFS dedicated staff.

Project Experience

- Project Manager and Senior Reviewer for multiple environmental due diligence investigations of industrial warehouse distribution properties, residential apartment communities, shopping centers, multi-level parking garages, and manufactured home communities. Project locations include San Diego, Orange County (CA), San Francisco Bay Area, Portland, Salt Lake, Denver, Las Vegas, Minneapolis, Pittsburgh, St. Louis, Boston, Dallas, San Antonio, Houston, Corpus Christi, Milwaukee, New York, Baltimore, Washington, D.C., Atlanta, Orlando, Tampa, and Miami.

- Conducted environmental due diligence and TSCA compliance investigations of electrical substations at multiple locations in Montana and California.

- Managed environmental investigations of multiple dry-cleaning facilities in California.

- Coordinated development and implementation of specialized regulatory compliance assessments of gas station convenience ("C") stores. Assessments were conducted typically of multi-site portfolios of C stores which included underground storage tank compliance, sensitive receptor review, historical site use, and sampling of existing groundwater monitoring wells for laboratory analysis with 10-days of authorization to proceed.

- Conducted environmental compliance audits, including preparation of written reports, of four hazardous waste treatment facilities in Ontario, Canada.

- Prepared a RCRA Subpart G closure plan for an interim status hazardous waste treatment facility in Long Island, New York.

- Prepared work plan for characterization of shallow soil and groundwater at a hazardous waste treatment facility in Ontario, Canada. Served as client liaison with the Ministry of the Environment and Energy while negotiating scope and schedule of the investigation. Managed implementation of characterization and coordinated subcontractor activities.

- Prepared work plan and health and safety plan for the investigation and removal of buried drums containing hazardous wastes at a hazardous waste treatment facility in Ontario, Canada. Served as client liaison with the Ministry of the Environment and Energy while negotiating scope and schedule of the investigation.

- Served as Task Manager for an asbestos survey and abatement project at a former wood treatment plant in Portland, Oregon, which was recently added to the National Priorities List (NPL). Included coordination with the Oregon Department of Environmental Quality (DEQ) preparation of bid packages and technical specifications, project oversight, budget management, and documentation.

- Served as Task Manager for characterization and disposal of approximately 80 55-gallon drums of hazardous waste, which consisted of creosote, pentachlorophenol, and arsenic waste, at a former wood treatment plant in Portland, Oregon, which was recently added to the NPL. Included coordination with the Oregon DEQ, preparation of bid packages and technical specifications, determination of waste codes, project oversight, budget management, and documentation.

- Managed Phase I ESAs of 47-site bank properties in Oregon, Washington, Idaho, and Utah within a 60-day period. Delivered all 47 assessment reports within project deadline.

- Managed Phase I ESAs of 10 hotel/motel properties in Oregon, Washington, Idaho, Utah, and Nevada.

- Managed Phase I ESAs of a block of 13 properties in Oregon and Washington, which included a large covered shopping mall in Walla Walla, Washington; a 62-story office building and attached parking garage; and a retail plaza in downtown Seattle.

- Managed a Phase I ESA and Phase II investigation of a 7-acre vehicle compound at a U.S. National Guard base. Phase II in investigation consisted of collection and compositing of soil samples from 70 shallow boreholes.

- Managed Phase I ESA updates, Phase II investigations, and site characterization investigations of two bank properties located at former gasoline service station sites in Grants Pass and Portland, Oregon ,for a major bank. Prepared statements of work for contractors and laboratories, as well as the Sampling and Analysis Plan (SAP) for field work. Designed work plan to facilitate cost recovery from previous owners/operators of the property.

- Managed an update of Phase I ESA and prepared the work plan for a site characterization investigation of a retail shopping center located at a former bulk fueling facility in Sandpoint, Idaho.

- Managed a Phase I ESA and UST removal at a bank property located at a former gasoline service station in Poulsbo, Washington. Prepared statements of work for contractors and laboratories, as well as the SAP for field work. Designed work plan to facilitate cost recovery from previous owners/operators of the property.

- Managed a Phase I ESA and asbestos survey of an office building in Modesto, California, which was constructed in the 1930s. Identified a UST in the basement and substantial quantities of asbestos. Conducted follow-up Phase II investigation to evaluate if a release had occurred from the UST.

- Managed a Phase II ESA of a former junkyard in San Jose, California. Included excavation of six backhoe test pits at locations where soil contamination was suspected. Collected soil samples for laboratory analysis. Detected PCBs, metals, chlorinated solvents, and petroleum hydrocarbons in the soil samples. Utilized the California Leaking Underground Fuel Tank (LUFT) document and the California Code of Regulations to formulate conclusions and make recommendations for further investigation at the site.

- Managed the Phase II investigation and site characterization investigation of two former bank branches for a major bank which were located at former gasoline service station sites in Oregon.

- Managed the Phase II site characterization of a 300-acre sawmill and veneer plant in southern Oregon.

- Managed groundwater remediation project of a LUFT site in Southern California. Monitored recovery and monitoring wells, and prepared monthly field reports and quarterly reports for regulatory authority.

- Managed the design and installation of a truck-fueling facility in Southern California. Included development of conceptual and final design, regulatory approvals, and construction management of installation.

- Conducted multiple waste management audits of waste hauling facilities in Southern California to determine generator/hauler compliance with special waste management and hazardous waste requirements. Investigated facility waste management procedures and record-keeping practices, and issued reports of findings for each facility audited.

- Reviewed facility generator activities relative to California hazardous waste laws and regulations, documented exceptions, and recommended corrective actions. [What type of facilities and where?]

- Reviewed facility activities relative to California hazardous waste laws and regulations. Documented exceptions and recommended corrective actions. [what type of facilities and where?]

- Reviewed waste management hauling facility activities relative to California UST law and regulations, documented exceptions, and recommended corrective actions.

- Provided waste management training to client's staff at multiple facilities in Southern California.

- Performed environmental audit of a major precision valve manufacturing facility in Southern California to determine compliance with state and federal hazardous waste, UST, wastewater discharge, SARA Title III, and air pollution control laws and regulations.

- Managed Phase I ESA of a warehouse property in Portland, Oregon.

- Managed a Limited ESA of a maintenance yard in Portland, Oregon.

- Conducted a Phase II investigation of a maintenance yard in Portland, Oregon, to investigate subsurface condition of the facility.

- Managed a Phase I ESA of a sandblast and coating facility in Tualatin, Oregon.
- Managed and performed numerous Fannie Mae Phase I environmental assessments utilizing the Fannie Mae format requirement.
- Managed Phase I ESA of a 3.5-acre automotive center. Assessed the potential for on-site contamination and investigated historic land use of both the site and surrounding properties.
- Served as Project Manager for Phase I ESAs of paper-converting plants in Longview and Vancouver, Washington.

Professional Certifications and Registrations

Registered Environmental Assessor, CA (lapsed)
Registered Environmental Health Specialist, CA
AHERA-certified Asbestos Inspector
40-Hour OSHA Health & Safety Certification (29 CFR 1910.120), 1991
8-Hour OSHA Health & Safety Annual Update Certification, 2002
8-Hour OSHA Supervisor's Certification, 1992
American Indoor Air Quality Council, Member

Continuing Education and Training

Strategies for Conducting Meaningful Microbial IAQ Investigations, American Indoor Air Quality Council, October 2002

APPENDIX G

CITY DIRECTORY REVIEW

City Directory Table

Year	Occupant of Subject Property/Adjoining Properties
1908 and 1924	North Orange County City Directories and Santa Ana was not listed.
1928	E 1st Street 939 E 1st Street – R A Mosher 1008 E 1st Street – Vacant 1010 E 1st Street – Thos Snell Café 1016 E 1st Street – Union Oil Co 1029 E 1st Street – Tustin Cement Pipe Co. E 2nd Street 932 E 2nd Street – Santa Ana Brass Foundry 936 E 2nd Street – C E Brown 1106 E 2nd Street – R D Iley E 3rd Street 928 E 3rd Street – C R Cross 929 E 3rd Street – Ella Slavens 1101 E 3rd Street – F S Bishop E 4th Street 1028 E 4th Street – A L Duke 1029 E 4th Street – Orange Blossom Café Breeden Ends SP Railroad crossing Santa Fe Depot Santa Ana Walnut Growers C C Collins Co. C G White 1045 E 4th Street – Roehm-Sylvester Inc. and Pitner & Weber, cigar mfg Breeden Street 312 Breeden Street - Green's Deluxe Photo Service 316 Breeden Street – Hall Baking Co. N Standard Avenue – not listed
1934	E 1st Street 940 E 1st Street – De Grummond & Stewart 1008 E 1st Street – Vacant 1010 E 1st Street – Josephine Park Restaurant 1016 E 1st Street – Union Oil Co 1029 E 1st Street – SA Railroad Section House E 2nd Street 932 E 2nd Street – Vacant

	936 E 2nd Street – Vacant 1106 E 2nd Street – David Romo E 3rd Street 928 E 3rd Street – C R Cross 929 E 3rd Street – Ella Slavens 1101 E 3rd Street – F S Bishop E 4th Street 1028 E 4th Street – Joe Zirinsky 1029 E 4th Street – Nox Dirt Products Co Breeden Ends **1030 E 4th Street – SP Railroad crossing, C C Collins Co., C G White, and Langley Oil Co.** 1037 E 4th Street – Orange Co Co-Operative 1044 E 4th Street – Santa Ana Walnut Growers Association Breeden Street – not listed N Standard Avenue – not listed
1940	E 1st Street 1010 E 1st Street – Isidro Ochoa 1015 E 1st Street – CA Packing Corp Plant 1016 E 1st Street – Union Oil Co 1029 E 1st Street – SA Railroad Section House E 2nd Street 932 E 2nd Street – South Counties Chemical Company 936 E 2nd Street – Vacant 1106 E 2nd Street – David Romo E 3rd Street 928 E 3rd Street – C R Cross 929 E 3rd Street – Ella Slavens 1101 E 3rd Street – F S Bishop E 4th Street 1028 E 4th Street – Joe Zirinsky 1029 E 4th Street – W G Scott Breeden Ends **1030 E 4th Street – SP Railroad crossing, Santa Fe Depot, C C Collins Co., Culver utilities Co, Lawrence Warehouse, and Tree Sweet Products** 1037 E 4th Street – Cogan & White Inc. 1044 E 4th Street – Santa Ana Walnut Growers Association Breeden Street 312 Breeden Street – M & W Weaving Co 314 Breeden Street – L J Ernst 316 Breeden Street – Store Room

	N Standard Avenue – not listed
1945	E 1st Street 1010 E 1st Street – Blaz, Moraga 1015 E 1st Street – Cons Vultee Warehouse 1016 E 1st Street – Union Oil Co 1029 E 1st Street – SA Railroad Section House E 2nd Street 910 E 2nd Street – Rice Wrecking Yard 914 E 2nd Street – Juliam Jaurigio 1108 E 2nd Street – Marie Gonzaliz E 3rd Street 928 E 3rd Street – Barr Lumber Co. 929 E 3rd Street – Ella Slavens 1106 E 3rd Street – M B Smith E 4th Street 1029 E 4th Street – Preciado & Perez Café Breeden Ends **1030 E 4th Street – SP Railroad Co Depot** 1034 E 4th Street - Santa Fe Railroad Depot 1037 E 4th Street – Culver Utilities Co, White & Davy Co., United Walnut Growers Association, and Sierra Frozen Foods 1044 E 4th Street – Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue – not listed
1949/50	E 1st Street 941 E 1st Street – Barr Lumber Co. 1004 E 1st Street – Manselle Supply, welding 1010 E 1st Street – B N Moraga 1015 E 1st Street – Vacant 1016 E 1st Street – Barnard G B Oil Distributors 1029 E 1st Street – SA Railroad Section House E 2nd Street 905 E 2nd Street – Rice Wrecking Yard 914 E 2nd Street – Vacant 932 E 2nd Street – Transient 936 E 2nd Street - Vacant 1108 E 2nd Street – J F Lopez E 3rd Street 927 E 3rd Street – Frank Clark 929 E 3rd Street – I E Hudson 1106 E 3rd Street – M B Smith

	E 4th Street 1028 E 4th Street – Barr Lumber Co. 1029 E 4th Street – Preciado & Perez Café Breeden Ends **1030 E 4th Street – SP Railroad Co Depot** 1034 E 4th Street - Santa Fe Railroad Depot 1037 E 4th Street – Vacant 1041 E 4th Street – E L Culter 1044 E 4th Street – Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue – not listed
1954	E 1st Street 941 E 1st Street – Seal Co Corp 1003 E 1st Street – S A Electric Co 1004 E 1st Street – Munselle Supply Co. 1010 E 1st Street – B N Moraga 1015 E 1st Street – Delaney Bros 1016 E 1st Street – Goode Oil Co. 1029 E 1st Street – SA Railroad Section House E 2nd Street 905 E 2nd Street – Rice Wrecking Yard 914 E 2nd Street – Vacant 932 E 2nd Street – Vacant 936 E 2nd Street - Vacant 1108 E 2nd Street – J F Lopez E 3rd Street 902 through 1101 E 3rd Street – No listings 1101 E 3rd Street – Hann Or Inc. Auto Body 1106 E 3rd Street – M B Smith E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street – Barr Lumber Co. Breeden Ends **1030 E 4th Street – SP Railroad Co Depot** 1034 and 1038 E 4th Street - Santa Fe Railroad Depot 1037 E 4th Street – Weatherseal Corp of Orange County 1041 E 4th Street – E L Culter 1043 E 4th Street – Sierra Frozen Foods 1044 E 4th Street – Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue – not listed

1960	E 1st Street 1010 E 1st Street – No Return 1016 E 1st Street – Goode Oil Co. 1030 E 1st Street – Vacant E 2nd Street 905 E 2nd Street – Rice Used Auto Parts & Wrecking Yard 914 E 2nd Street – Vacant 932 E 2nd Street – Allied Fixture Mfg 935 E 2nd Street – Joe Prevost 936 E 2nd Street – Vacant 940 E 2nd Street – Hamilton Materials, Inc. 1108 E 2nd Street – Alphonse Gonzales E 3rd Street 830 E 3rd Street – Frank Armendariz 1001 E 3rd Street – Kaufman Walter Cabinets 1106 E 3rd Street – Worthly Brown E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street – Barr Lumber Co. Breeden Ends **1030 E 4th Street – SP Railroad Co Depot** 1034 and 1038 E 4th Street – Atchison Topeka & Santa Fe Railroad Depot and AT & SF Railroad crosses 1037 E 4th Street – Perma-Seal Co of California 1043 E 4th Street – Sierra Frozen Foods 1044 E 4th Street – Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue – not listed
1965	E 1st Street 941 E 1st Street – Santa House of Music 1004 E 1st Street – Munselle Supply Co 1016 E 1st Street – Goode Oil Co. E 2nd Street 905 E 2nd Street – Rice Used Auto Parts & Wrecking Yard 935 E 2nd Street – Joe Prevost 1102 E 2nd Street – North American Vehicle Supply E 3rd Street 825 E 3rd Street – Apartments 1001 E 3rd Street – Kaufman Walter Cabinets 1101 E 3rd Street – Stone-Van Dyke Paint & Body Shop 1106 E 3rd Street – Worthly Brown E 4th Street

	1027 E 4th Street – Right Road Café 1028 E 4th Street – Barr Lumber Co. Breeden Ends **1030 E 4th Street – SP Railroad Co Depot** 1034 and 1038 E 4th Street – Atchison Topeka & Santa Fe Railroad Depot and AT & SF Railroad crosses 1037 E 4th Street – Perma-Seal Co of California 1055 E 4th Street – Roehm Distributing Co Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue 115 N Standard Avenue – Pink Panther, Orange County Business Opportunity, Ceiling Systems, and Reeves Refrigerating 117 N Standard Avenue – McClure & Sons, Marsh Allied Refrigeration, Morgan Linen Service
1974	E 1st Street 941 E 1st Street –House of Music 1004 E 1st Street – Munselle Supply Co 1016 E 1st Street – Goode Oil Co. and Union Oil Co. E 2nd Street 905 E 2nd Street – Rice Auto Parts 932 E 2nd Street – John Hopkins 936 E 2nd Street – Barry Bowyer 938 E 2nd Street – Flag Trucking Co. 1102 E 2nd Street – North American Vehicle Supply E 3rd Street 928 E 3rd Street – Tom's Towing Service 1000 E 3rd Street – Cal Custom Milling 1020 E 3rd Street – XXXX E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street – Kaufman & Walter Breeden Ends **1030 E 4th Street – Not Listed** 1034 E 4th Street – Amtrak Depot, Santa Fe Railroad Depot 1043 E 4th Street – California Brokerage 1044 E 4th Street – Earl Fruit Co., Sunnyland Juice, Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue 115 N Standard Avenue – El Metate Mexican and Aladdin LithoArt 117 N Standard Avenue – McClure & Sons, Mobil Oil Tires and Batteries, Marsh Allied Refrigeration, and Morgan Linen Service

1980	E 1st Street 941 E 1st Street – Al's Equipment & Sales 1004 E 1st Street – L & V Industrial Supply 1016 E 1st Street – Goode Oil Co. and Union Oil Co. E 2nd Street 905 E 2nd Street – Rice Auto Parts 932 E 2nd Street – John Hopkins 936 E 2nd Street – Barry Bowyer 938 E 2nd Street – Flag Trucking Co. 950 E 2nd Street – Rice Auto Parts 1102 E 2nd Street – North American Vehicle Supply E 3rd Street 928 E 3rd Street – Honda Salvage, Raindeer Towing, and Tom's Towing Service 1000 E 3rd Street – Cal Custom Milling 1020 E 3rd Street – XXXX E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street – Kaufman & Walter Breeden Ends **1030 E 4th Street – Not Listed** 1034 E 4th Street – Amtrak Depot, Santa Fe Railroad Depot 1043 E 4th Street – Vitec 1044 E 4th Street –Sunnyland Juice Corp, Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue 115 N Standard Avenue – El Metate Mexican and Ideal Tortillas 117 N Standard Avenue – Marsh Allied Refrigeration and Morgan Linen Service
1985	E 1st Street 934 E 1st Street – D B Electrical 1004 E 1st Street – L & V Industrial Supply 1016 E 1st Street – ECS Trucking E 2nd Street 905 E 2nd Street – Rice Auto Parts 932 E 2nd Street – XXXX 936 E 2nd Street – National Auto Parts 938 E 2nd Street – Flag Trucking Co. 950 E 2nd Street – Rice Auto Parts 1102 E 2nd Street – Dunrite Automotive and North American Vehicle Supply E 3rd Street 928 E 3rd Street – Honda Salvage, Raindeer Towing, and Tom's

	Towing Service 1000 E 3rd Street – Quality Lumber Sales 1020 E 3rd Street – XXXX E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street –Walter & Cline Breeden Ends **1030 E 4th Street – Not Listed** 1034 E 4th Street – Amtrak Depot 1043 E 4th Street – Vitec, Inc. 1044 E 4th Street –Sunnyland Juice Corp, Tree Sweet Products Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue 111 N Standard Avenue – Floral Music Shop
1990	E 1st Street 934 E 1st Street – Marion B Fireplaces and Roque Woodworks, Inc. 1004 E 1st Street – L & V Industrial Supply and Air Products & Chemicals 1016 E 1st Street – Crowley Roofing E 2nd Street 905 E 2nd Street – Rice Auto Parts 911 E 2nd Street – Cruz Auto Detail 936 E 2nd Street – National Auto Parts 938 E 2nd Street – Flag Trucking Co. 950 E 2nd Street – Rice Auto Parts 1102 E 2nd Street – Santa Fe Auto Repair E 3rd Street 928 E 3rd Street –Reindeer, Inc. 936 E 3rd Street – H Truck Dismantling, Nissan UD DSL Truck, and Tom's Truck Center 1000 E 3rd Street – XXXX E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street –Walter & Cline Breeden Ends **1030 E 4th Street – Not Listed** 1034 E 4th Street – XXXX Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue 115 N Standard Avenue – Atlas Mable Auto Glass, Berlin Tire Center, and K C Auto Body and Paint

	117 N Standard Avenue – Steamway West and Allied Refrigeration
1995/96	E 1st Street 940 E 1st Street – XXXX 1004 E 1st Street – Gordon Wood and Welding 1016 E 1st Street – Crowley Roofing and Greater Pacific Roofing E 2nd Street 905 E 2nd Street – Rice Auto Parts 911 E 2nd Street – XXXX 936 E 2nd Street – Cruz Auto Detail 938 E 2nd Street – Flag Trucking Co. 950 E 2nd Street – Rice Auto Parts 1102 E 2nd Street – Santa Fe Auto Repair E 3rd Street 928 E 3rd Street –Reindeer, Inc. 936 E 3rd Street – H Truck Dismantling, Nissan UD DSL Truck, and Tom's Truck Center 938 E 3rd Street – Reindeer, Inc. 1000 E 3rd Street – XXXX E 4th Street 1027 E 4th Street – Right Road Café 1028 E 4th Street – XXXX Breeden Ends **1030 E 4th Street – Right Track Construction** 1034 E 4th Street – XXXX Breeden Street – no subject property or adjacent property addresses listed N Standard Avenue 115 N Standard Avenue – K C Auto Collison 117 N Standard Avenue – JTS Auto and Joes Transmission Service

The subject property is depicted in bold.

Name of city directories and source:

- Santa Ana Public Library, Santa Ana History Room
- Anaheim Public Library, Anaheim History Room

Phase I Environmental Site Assessment and
Phase II Limited Subsurface Investigation
All Aboard Mini Storage
1030 East 4th Street
Santa Ana, California
VERTEX Project No. 25121

VERTEX®

Prepared By:

VERTEX Environmental Services, Inc.
400 Libbey Parkway
Weymouth, MA 02189

June 28, 2013

Prepared For:

Extra Space Storage LLC
2795 East Cottonwood Parkway, Suite 400
Salt Lake City, Utah 84121
Attn: Mr. Charles Allen

VERTEX®

Vertex –TCS, LLC
Vertex 合同会社
Vertex Engineering, PC
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Vertex Air Quality Services, LLC
Vertex Construction Services, Inc.
Vertex Environmental Services, Inc.
Vertex Environmental Insurance Services, Inc.
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June 28, 2013

Extra Space Storage LLC
2795 East Cottonwood Parkway, Suite 400
Salt Lake City, Utah 84121
Attn: Mr. Charles Allen

RE: Phase I Environmental Site Assessment and
Phase II Limited Subsurface Investigation
All Aboard Mini Storage
1030 East 4th Street
Santa Ana, California
VERTEX Project No. 25121

Dear Mr. Allen:

Vertex Environmental Services, Inc. (VERTEX) is pleased to submit this Phase I Environmental Site Assessment (ESA) and Phase II Limited Subsurface Investigation (LSI) report for the above referenced property (the site). The purpose of this assessment was to identify *recognized environmental conditions* in connection with the site. Recognized environmental conditions are defined as "the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property."

In conducting this assessment, VERTEX followed the E1527-05 American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate, as well as the All Appropriate Inquires (AAI) Final Rule of November 1, 2005. To the best of our knowledge, this Phase I ESA and Phase II LSI report is true and accurate.

We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in §312.10 of 40 CFR Part 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature,

history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

This report is for the exclusive use of Extra Space Storage LLC and its insurers, counsel and accountants. Use of this report by any other party shall be at such party's sole risk.

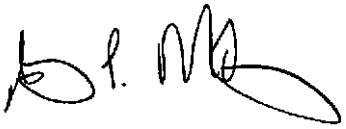
Please do not hesitate to contact us at your convenience, should you have any questions or comments regarding this report or our recommendations. It has been a pleasure working with you on this project.

Sincerely,

Vertex Environmental Services, Inc.

Ken Jones
Geologist I

Eric Wirtanen
Assistant Project Manager



Stephen P. McCarthy
Division Manager

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PHASE I ENVIRONMENTAL SITE ASSESSMENT and
PHASE II LIMITED SUBSURFACE INVESTIGATION

All Aboard Mini Storage
1030 East 4th Street
Santa Ana, California
VERTEX Project No. 25121

1.0 PROJECT SUMMARY

Vertex Environmental Services, Inc. (VERTEX) was contracted by Extra Space Storage, Inc. to conduct a Phase I Environmental Site Assessment (ESA) and a Phase II Limited Subsurface Investigation (LSI) of the property located at 1030 East 4th Street, Santa Ana, California (the site). The site is developed with a single-story office building with a retail area and manager's apartment and seven single-story self-storage buildings. Additional improvements consist of asphalt and concrete-paved parking and driveway areas, security gates and landscaped areas. Construction of the storage facility was completed in 1995. The site is currently owned by Santa Ana Hyrail III LLC.

The purpose of the Phase I ESA is to identify, to the extent feasible pursuant to the processes prescribed in the American Society for Testing and Materials (ASTM) document E 1527-05, recognized environmental conditions (RECs) in connection with the site.

A summary of our key findings is provided below:

- Based on a review of aerial photographs (1938-2012), topographic maps (1901-1981), city directories (1920-2012), Sanborn Fire Insurance Maps (1885-1969), title records, previous environmental investigations, and interviews with municipal officials, the site was residentially occupied from at least 1885 until approximately 1906, when it was developed as a railway station and railroad tracks. Other areas of the site were further improved in 1949 with section housing and, in 1969, with a planing mill. The site was vacant land from approximately 1994 until developed with the current improvements in

1995. No environmental concerns were identified with respect to the current use of the site.

- VERTEX did not observe fill pipes, vent pipes or other evidence of underground storage tanks (USTs) or above ground storage tanks (ASTs) at the site. VERTEX did not observe evidence of the use or storage of hazardous materials or petroleum products at the site. VERTEX did not observe evidence of a release of hazardous materials or petroleum products at the site.

- The site is located in a commercial and industrial area. Numerous facilities were identified on state and federal regulatory databases that are located within 500 feet and up-gradient of the site. Impact to the site from a release at one or more of these facilities cannot be ruled out. Therefore, these facilities are considered a concern to the site. There is no indicated similar use of chemicals on the site; therefore, it is unlikely that the owner or operator of the site would be required by a regulatory agency to address impacts to the site, if identified, emanating from an off-site source. Furthermore, we do not believe that impacts to the site emanating from off-site sources would present a vapor intrusion risk to site occupants given that (i) the depth to groundwater of 85 to 90 feet, (ii) the uses associated with those sites that are up-gradient of the on-site apartment unit do not present vapor intrusion risks, and (iii) the portions of the site that are down-gradient of areas of concern are occupied by parking lots and storage units.

- To further assess the historical use of the site for rail operations, VERTEX conducted a LSI, which included conducting a ground-penetrating radar (GPR) survey, the advancement of four test borings, and the laboratory analysis of select soil samples. The GPR survey was utilized to pre-clear all soil borings of potential subsurface utilities. No subsurface anomalies were identified during the GPR survey.

- VERTEX advanced four test borings (VB-1 through VB-4) on the site on June 18, 2013. Soil borings were advanced to a depth of approximately 30 feet below ground surface (bgs) using direct-push drilling techniques. Groundwater was not encountered during the

drilling activities. No visual or olfactory evidence of contamination was detected in the soil borings. Field screening of soil samples using a photoionization detector (PID) did not identify total volatile organic compounds (TVOCs) concentrations above 1 part-per million by volume (ppmv).

- Select soil samples from each of the four test borings were submitted to ESC Lab Sciences (ESC) for the analysis of volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), total petroleum hydrocarbons – diesel range organics (TPH DRO), Resource Conservation and Recovery Act (RCRA) 8 metals, and polychlorinated biphenyls (PCBs).

- Acetone was detected in soil samples VB-1 and VB-3 at concentrations below the California Regional Water Quality Board (RWQCB) Environmental Screening Levels (ESLs; Deep Soil Screening Levels) for Commercial/Industrial Land Use. Benzene was detected in soil samples VB-1 and VB-3 at concentrations below the RWQCB ESL. Toluene was detected in soil sample VB-1 below the RWQCB ESL. No other VOCs were detected at concentrations exceeding laboratory method reporting limits. TPH DRO in the C10-C22 Hydrocarbons Range was detected in soil sample VB-4 at a concentration below the RWQCB ESL. No other TPH DRO fractions were detected at concentrations exceeding laboratory method reporting limits. No PAHs or PCBs were detected in the soil samples collected at concentrations exceeding laboratory method reporting limits.

- Barium, lead, mercury, and selenium were detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations below the applicable California Human Health Screening Levels for Commercial/Industrial Land Use (CHHSL) and the RWQCB ESL. Chromium was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations below the RWQCB ESL. There is no applicable CHHSL standard for total chromium. Cadmium and silver concentrations were not detected in the soil samples collected. Arsenic was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 5.4 to 6.4 milligrams per kilogram (mg/kg), exceeding the applicable CHHSL of 0.24 mg/kg and the ESL of 0.96 mg/kg. However, according to a document obtained from the

California Department of Toxic Substances Control (DTSC) website dated March 2008, the DTSC findings suggested that, in Southern California, 12 mg/kg may be a useful screening number for evaluating arsenic as a chemical of potential concern. As such, the arsenic concentrations identified are considered to be similar to background arsenic levels found throughout the region, and no regulatory reporting of these concentrations is required.

Conclusions and Recommendations

VERTEX performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 and a Phase II LSI of the property located at 1030 East 4th Street, Santa Ana, California. Any exceptions to or deletions from this practice are described in Section 10.0. This assessment revealed no evidence of RECs in connection with the site. As such, no additional work is recommended at this time.

2.0 INTRODUCTION

On April 18, 2013 VERTEX was contracted by Extra Space Storage LLC to conduct a Phase I ESA of the property located at 1030 East 4th Street, Santa Ana, California. On June 7, 2013 VERTEX was contracted by Extra Space Storage LLC to conduct a Phase II LSI of the property. According to the Orange County Clerk, the site is currently owned by Santa Ana Hyrail III LLC.

In conducting this assessment, VERTEX followed the E1527-05 ASTM document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate, as well as the AAI Final Rule of November 1, 2005. Any exceptions to, or deletions from, this practice are described in Section 10.0 of the report. The primary purpose of this assessment was to identify RECs in connection with the subject property. RECs are defined as the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property.

In accordance with the above-referenced agreement, VERTEX performed a visual reconnaissance of the site, noted use of adjacent properties, and conducted historical and regulatory records research. The following provides a more detailed description of the scope of services:

- Visual inspection of the site building and grounds to identify potential for on-site oil or hazardous material release(s).
- Visual inspection of the site building to confirm the presence or absence of Polychlorinated Biphenyls (PCBs) in equipment, i.e., transformers.
- Visual inspection and categorization of the use of abutting and adjacent properties as potential off-site sources of chemical contamination.
- Review of published federal regulatory records related to on-site activities and to potential off-site sources of oil or hazardous material contamination. Federal records reviewed include, but are not limited to, the following:

- National Priorities List (NPL)
- Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)
- Resource Conservation and Recovery Act (RCRA)
- Emergency Response Notification System (ERNS)
- Institutional Control/Engineering Control Registries

- Review of readily available state regulatory records and publications for environmental activities related to the site and potential off-site sources of oil or hazardous material contamination. State records reviewed include, but are not limited to, the following:

    - California State Hazardous Waste Sites (SHWS)
    - California Registered USTs
    - California Registered ASTs
    - California Leaking Underground Storage Tank (LUST)
    - California Licensed Solid Waste Facilities/Landfills Facilities (SWF/LF)
    - California Voluntary Cleanup Program (VCP) Sites

- Review of readily available historical site documents to assess for potential on-site sources of oil or hazardous material contamination.

- Confirm the year of construction for all on-site buildings and if necessary visually inspect for suspect asbestos containing materials (ACMs) and suspect lead based paint (LBP) surfaces.

- Review of local records related to historical ownership, usage and site development. This also included interviewing local environmental authorities to identify complaints, violations, citations, inspections, environmental liens, activity and use limitations (AULs), or institutional and engineering controls related to the site.

- Review readily available aerial photographs for the sites and site vicinity to evaluate present and historical development/facilities.

- Preparation of this Phase I ESA report.

- To assess the potential for impacts from the past use of the site for rail operations, VERTEX conducted a Phase II LSI, which included the advancement of four test borings and the collection of select soil samples for laboratory analysis. Please refer to Section 9.0 for additional information.

3.0 PROPERTY DESCRIPTION

3.1 Site Reconnaissance

A site visit was conducted by VERTEX representative Mr. Ken Jones, Geologist I, between 11:30 a.m. and 12:30 p.m. on April 30, 2013. During the site visit, the weather was overcast with a temperature of approximately 65 degrees Fahrenheit. The site visit consisted of a walk-through of the site, an interview with a site representative, and visual reconnaissance of neighboring properties from curbside. Photographic documentation of the site visit is included in Appendix A.

3.2 General Site Conditions

The site is located on the south side of East 4th Street, east of Breeden Street and North Standard Avenue and north of East 1st Street in Santa Ana, California. According to the Orange County Clerk, the approximately 3.3-acre site parcel is identified as Parcel Number 398-461-18 and is addressed as 1030 East 4th Street. The site is developed with a single-story office building with a retail area and manager's apartment and seven single-story self-storage buildings that were constructed in 1995. Additional improvements consist of asphalt and concrete-paved parking and driveway areas, security gates, and landscaped areas. The site location is shown on the 1981 USGS Topographic Quadrangle Map of Tustin, California. Please refer to Figure 1 - Site Locus Map.

3.3 Site Improvements

3.3.1 Exterior Improvements

Exterior improvements at the site consist of asphalt- and concrete-paved driveways and parking areas, which surround the office and self-storage buildings and security gates. Paved areas did not exhibit obvious staining indicative of a release at the time of the site visit.

Three pole-mounted transformers were observed southwest of the site, outside the site boundary. The transformers appeared to be in good condition, with no evidence of leaks or staining. As such, the presence of transformers is not considered a concern to this investigation. VERTEX was not able to identify the owner of the transformers.

Small landscaped areas were observed along the western boundary of the site and surrounding the office/manager's housing building.

Refer to Figure 2 - Site Schematic, for a layout of the site.

3.3.2 Building Description

The single-story office building is constructed of wood framing with stucco on a slab-on-grade foundation. Interior construction consists of painted drywall walls and ceilings and tile flooring. The single-story self-storage buildings are constructed of steel, concrete, and concrete brick walls on a slab-on-grade foundation with rollup steel doors. The storage units consist of bare concrete floors and metal walls. Ceilings typically consist of metal panels. Metal rollup doors are used for access to each storage unit.

3.3.3 Utilities

According to site reconnaissance, interview with on-site management personnel, and/or municipal records reviewed, the following entities provide utility service to the site (see Table 3-1):

TABLE 3-1 – UTILITIES

Utility	Provider	Comments
Electricity	Southern California Edison	No concerns
Natural Gas	The Gas Company	No concerns

TABLE 3-1 – UTILITIES		
Utility	**Provider**	**Comments**
Water	City of Santa Ana	No concerns
Sanitary Sewer	City of Santa Ana	No concerns
Storm Sewer	City of Santa Ana	No concerns

3.4 Tenant Operations

The site is currently operated as an All Aboard self-storage facility with a ground floor, on-site manager's residence. Chemicals at the site are limited to common household strength cleaning products, construction supplies, pesticides and limited amounts of petroleum which are stored in a maintenance unit. The maintenance spaces appeared to be well-maintained and all products were stored within their original retail containers. No evidence of leaks or staining was observed in these areas. Significant quantities of petroleum products or hazardous material use or storage were not observed on-site. According to Ms. Nancy Talbot, Store Manager for All Aboard Storage, no operations using hazardous chemicals apart from minor cleaning/repair of the site maintenance equipment are performed on-site. As such, the current on-site operations are not considered an environmental concern.

3.5 Environmental Setting

3.5.1 Topography

The site location is shown on the 1981 USGS Topographic Quadrangle Map of Tustin, California. The surface elevation of the site is approximately 130 feet above mean sea level. Topography slopes to the southwest across the site. Regional topography slopes to the southwest.

3.5.2 Surface Water and Wetlands

The site was inspected for the presence of sensitive ecological areas by noting environmental indicators (e.g., wetlands, vegetation, floodplains) located on or immediately adjoining the site. No wetlands or surface water was observed on-site. According to the National Wetland Inventory, no wetlands are located on-site.

According to the Orange County, California FEMA Flood Map, 06059C0276J, the site is located in flood hazard zone X, which is defined as an area outside the 500-year flood plain.

A storm water drain was observed west of the site, along North Standard Avenue, which discharges into the city storm water system. VERTEX did not observe evidence of staining around the storm drain.

3.5.3 Subsurface Geologic Conditions

According to the SSURGO Soil Map provided by EDR, soils at the site consist of the Mocho Soil. The Mocho Soil consists of loam that is well drained, and has moderate infiltration rates. Based on a subsurface investigation of the site performed by VERTEX in June 2013, lithology encountered at the site generally consisted of brown loamy soils at depths less than 20 feet bgs, and brown loamy clays at depths of 20 to 30 feet bgs.

3.5.4 Groundwater Flow

Information from LUST files for two nearby facilities located within two miles of the site was obtained from the ENVIROSTOR database. According to groundwater elevation measurements collected over a period of more than five years, groundwater in the area flows to the southeast. Depth to groundwater at these locations was measured at 85 to 90 feet below ground surface (bgs). VERTEX notes that depth to groundwater may fluctuate depending upon seasonal rainfall amounts. Actual flow direction may be influenced by differential weathering and fracturing of

underlying bedrock or other factors including underground structures, and production wells, seasonal precipitation or nearby waterway fluctuations, none of which were considered during this study.

4.0 INTERVIEWS AND USER-PROVIDED INFORMATION

VERTEX requested information from the client ("User") and interviewed knowledgeable individuals about the subject site.

4.1 Historical Ownership Information

VERTEX was not provided with ownership information by Extra Space Storage LLC. According to the most recent deed record for the site, the site is currently owned by Santa Ana Hyrail III LLC. Additional deed records were not readily available for review. Previous owners of the site were not available to be interviewed.

4.2 Environmental Liens and Activity and Use Limitations

No environmental liens or AULs were noted through limited review of ownership records. An Environmental Lien Search conducted by Environmental Data Resources, Inc. (EDR), did not identify an environmental lien or AUL associated with the site (Appendix B). Extra Space Storage LLC was not aware of environmental liens or AULs associated with the subject site.

4.3 Valuation Reduction for Environmental Issues

Extra Space Storage, Inc. did not provide VERTEX with information regarding any reduction in the value of the site property resulting from on-site environmental issues.

4.4 Reason for Performing Phase I

This Phase I ESA was conducted on behalf of Extra Space Storage LLC as part of the Client's due diligence associated with the proposed acquisition of the subject site by Client.

4.5 Ownership, Management, and Tenant Information

The site is currently owned by Santa Ana Hyrail III LLC and is occupied and managed by All Aboard Mini Storage LLC.

4.6 Interviews

VERTEX conducted interviews regarding site and surrounding land use history with the following individuals (see Table 4-1):

TABLE 4-1 – INTERVIEWS

Personnel	Position	Information Provided
Ms. Nancy Talbot	Property Manager	Site history and current use
Representative	City of Santa Ana Water Department	Water and Sewer Connection Information

Additional information obtained during these interviews is discussed in the relevant sections of this report.

5.0 HISTORICAL RECORDS REVIEW

Past land uses were investigated to identify historical practices or conditions which may have impacted the site. This was accomplished via an ownership records review at the Orange County Recorder's Office as well as a review of historical documents (i.e., aerial photographs, topographic maps, and city directories, etc.).

5.1 Prior Ownership

VERTEX reviewed title records for the site provided by EDR and at the Orange County Recorder's Office. Please refer to Table 5-1 for information obtained:

TABLE 5-1 – DEED RECORDS REVIEW

Grantee	Grantor	Date	Reference Number
Rail Pacific II LP	Santa Ana Hyrail III LLC	8/16/2005	R050688797

Deed records dated prior to 2005 were not readily available. No environmental liens or AULs were noted through review of ownership records. Prior owners of the site were not available to be interviewed. VERTEX did not identify concerns associated with former operations.

5.2 Aerial Photography

Aerial photographs including the site and adjoining properties were obtained from EDR. Copies of the aerial photographs are included in Appendix C. A summary of the information obtained from the review is provided in Table 5-2.

TABLE 5-2 – AERIAL PHOTOGRAPHY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1938	The site appears to consist of railroad tracks, undeveloped land, and structure on the northern portion of the site. The remaining area on-site is undeveloped land.	East 4th Street is visible north of the site, beyond which, railroad tracks and several structures are visible. Railroad tracks and a structure are visible east of the site. East 1st Street is visible south of the site, beyond which is vacant land and several structures. Three structures are visible southwest of the site. North Standard Avenue is visible west of the site, beyond which, several large structures are visible. Two structures and Breeden Street are visible adjoining west of the site. Beyond Breeden Street, several structures are visible.	None
1947	The site appears similar to the 1938 aerial photograph.	The structures west of the site, beyond Breeden Street, appear to have been further developed.	None
1953	A structure has been developed on the southern portion of the site.	The structures south of the site, beyond East 1st Street appear to have been further developed.	None
1960	The site appears similar to the 1953 aerial photograph.	A structure has been developed north of the site, beyond East 4th Street.	None
1968	A structure has been developed on the western portion of the site. The structure on the southern portion of the site is no longer visible.	No structures are visible north of the site, beyond East 4th Street. One of the structures adjoining east of the site is no longer visible. The structures southwest of the site have been redeveloped.	None
1977	The structure on the northern portion of the site is no longer visible. Several structures have been developed towards the center of the site. The southern portion of the site appears to be used as vehicle storage.	Several structures have been developed south of the site, beyond East 1st Street.	None
1990	The southern portion of the site no longer appears to contain vehicle storage.	One of the structures east of the site is no longer visible.	None
1994,1995 Composite	The site appears to consist of vacant land.	The property adjoining east of the site appears to consist of vacant land. The property south of the site, beyond East 1st Street, appears to consist of vacant land. The property adjoining west of the site appears to consist of vacant land.	None
2005	The site appears to be developed with the current improvements.	A structure has been developed north of the site, beyond East 4th Street. A large structure has been developed adjoining east of the site. The property south of the site, beyond East 1st street has been redeveloped.	None
2009	The site appears similar to the 2005 aerial photograph.	Surrounding areas appear similar to the 2005 aerial photograph.	None
2010	The site appears similar to the 2009 aerial photograph.	Surrounding areas appear similar to the 2009 aerial photograph.	None
2012	The site appears similar to the 2010 aerial photograph.	The surrounding areas appear similar to the 2010 aerial photograph.	None

A review of the above-referenced historical aerial photographs revealed that the site was developed with railroad tracks and a railway station from beginning in 1938. The site was further developed with section housing and a planing mill prior to 1968. The site consisted of vacant land in 1994 and was developed with the current improvements prior to 2005.

5.3 Topographic Maps

Topographic maps including the site and adjoining properties were obtained from EDR. Copies of the topographic maps are included in Appendix D. A summary of the information obtained from the review is provided in Table 5-3.

TABLE 5-3 – TOPOGRAPHIC MAP REVIEW

Year	Summary (on-site)	Summary (off-site)	Concerns
1901	Due to the scale of the map, the exact use and location of the site could not be determined.	Due to the scale of the map, the exact use and location of surrounding areas could not be determined.	None
1902	Due to the scale of the map, the exact use and location of the site could not be determined.	Due to the scale of the map, the exact use and location of surrounding areas could not be determined.	None
1935	Due to the scale of the map, the exact use and location of the site could not be determined.	Due to the scale of the map, the exact use and location of surrounding areas could not be determined.	None
1942	The site is depicted as a built up area. Train tracks are depicted crossing the site.	East 4th Street is depicted adjoining north of the site. Train tracks are depicted adjoining east of the site. East 1st Street is depicted adjoining south of the site. Breeden Street and North Standard Avenue are depicted adjoining west of the site.	None
1948	The site is depicted with more train tracks.	More train tracks are depicted adjoining east of the site.	None
1965	A train station structure is depicted on the northern portion of the site.	A train station structure is depicted east of the site.	None
1972	The site appears similar to the 1965 topographic map.	Surrounding areas appear similar to the 1965 topographic map.	None
1981	The site appears similar to the 1972 topographic map.	Surrounding areas appear similar to the 1972 topographic map.	None

5.4 City Directories

City directories for the site were obtained from EDR at approximate five-year intervals from 1920-2012. Please refer to Table 5-4 below for a summary of properties noted during a review of city directories.

TABLE 5-4 – CITY DIRECTORY REVIEW

Year	Summary (on-site)	Summary (off-site)	Concerns
1920	No Listing	*East 3rd Street* 928: G.H. Dow *East 4th Street* 1029: CW Crawford Restaurant, EJ Vasquez Shoemaker (1922)	
1925	No Listing	*East 3rd Street* 928: G.J. Wood *Breeden Street* 312: De Luxe Photo Service 316: Depot Café	
1930	No Listing	*East 3rd Street* 928: G.J. Wood *East 4th Street* 1008: Raitt's Sanitary Dairy *Breeden Street* 312: Swiney & Wilsdn Photos 316: U.S. Termite Control Warehouse	
1936	*1030 East 4th Street:* SP Ry Co.	*East 3rd Street* 928: G.R. Oross *East 4th Street* 1008: Raitt's Rich Milk Co. 1029: Jesus Gastelo Restaurant *Breeden Street* 312: De Luxe Photo Service	
1941	*1030 East 4th Street:* Freight & Ticket Office	*East 4th Street* 1008: Arden Farms Co. 1029: Ray B Sandoval *North Standard Avenue* 201: La Belle Beauty Shop 203: Pillowry Gift Shop	
1945	*1030 East 4th Street:* Depot Freight & Ticketing Office	*East 3rd Street* 928: Barr Lumber Yard *East 4th Street* 1029: Right Road Café	

TABLE 5-4 – CITY DIRECTORY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1952	*1030 East 4th Street:* South Pacific Co.	*East 4th Street* 1008: Arden Farms Co. 1038: Santa Fe Ry Co. *North Standard Avenue* 201: Harris Drug Store 210: Gold Furn Co. 222: Fullerton Store	
1956	*1030 East 4th Street:* Pac Motor Trucking Co., Freight Ofc, Santa Ana Ticket Freight & Passenger Agt	*East 4th Street* 1008: Arden Farms Co. 1029: Right Road Café	
1960	*1030 East 4th Street:* PE Ry Frt Agency, SP Depot	*East 4th Street* 1008: Arden Farms 1029: Right Road Café	
1966	*1030 East 4th Street:* Santa Ana Freight Ofc, Southern Pacific Co.	*East 4th Street* 1008: Arden Farms Co. Santa Ana 1010: Skyline Realty 1029: Right Road café	
1970	No Listing	*East 4th Street* 1008: Arden Farms 1029: Right Road Café	
1975	No Listing	*East 3rd Street* 928: **Tom's Towing & Truck Repair** *East 4th Street* 1008: Arden Farms	
1980	No Listing	*East 3rd Street* 928: **Reindeer Towing & Repair Co., Truck Repair Service** *East 4th Street* 1008: Main Office Santa Ana	
1986	No Listing	*East 3rd Street* 928: **Honda Auto Dismantling, Honda Wrecking Yard** 938: **Tom's Truck Repair** *East 4th Street* 1008: **Tom's Towing Division**	
1991	No Listing	*East 3rd Street* 928: **Sure Lease Rentals Inc., Tom's Truck Center** 936: **Nissan UD Diesel Truck of Orange County** 938: **Tom's Truck Center** *East 4th Street* 1008: **Tom's Towing Division, Tom's Truck Sales**	
1995	*1030 East 4th Street:* Right Track Construction Co.	*East 3rd Street* 928: **H Truck Dismantling Iveco Isuzu UD GMC, Reindeer Inc.** 936: **Oneco Isuzu GMC Repair & Service, Tom's Truck Center, H Truck Dismantling** 938: **Tom's Truck Center, Reindeer Inc.** *East 4th Street* 1008: **24 Towing & Road Service Call, Aeromate Trucks, Tom's Truck Center**	

TABLE 5-4 – CITY DIRECTORY REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
		1029: Right Road Café	
2002	*1030 East 4th Street:* All Aboard Mini Storage	*East 3rd Street* 928: **Tom's Truck & Used Parts** 936: **Tom's Truck Center, Reindeer Inc.** *East 4th Street* 1008: **Sisu Trucks, Office, Reindeer Inc., Aeromatc Trucks, Magnum Trucks** 1029: Taqueria de Anda	
2007	No Listing	*East 3rd Street* 928: **Tom's Truck Center Santa Ana** 936: **Suzuki Depot** *East 4th Street* 1029: Taqueria de Anda 1038: Joe Kunz Co. Inc.	
2012	*1030 East 4th Street:* All Aboard Mini Storage	*East 3rd Street* 936: **Reindeer Inc, Tom's Truck Center, Iveco Diesel, Suzuki Depot Parts Department** *East 4th Street* 1008: **Tom's Truck Center** 1029: Taqueria de Anda 1038: Joe Kunz Co. Inc.	

No on-site concerns were noted from review of city directories. Off-site properties of potential concern are discussed in Section 6.2.2.

5.5 Sanborn Fire Insurance Maps

A search of Sanborn Fire Insurance maps by EDR Sanborn, Inc. was requested by VERTEX. A copy of the Sanborn Fire Insurance Maps is included in Appendix E. A summary of the information reviewed is presented below:

TABLE 5-5 – SANBORN REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1885	A dwelling and a barn yard are depicted on the northern portion of the site. The rest of the site is not depicted.	*North:* East 4th Street, beyond which, S.H. Pendleton Lumber Yard is depicted. *South:* The area south of the site is not depicted. *East:* Railroad tracks and Southern California (Sante Fe) Depot are depicted. *West:* A dwelling is depicted.	None
1906	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which, Southern Chill Creamery & Ice Co. is depicted. *South:* The area is not depicted. *Southwest:* East 2nd Street and Cal Fruit Canners Association are depicted. *East:* Railroad tracks and AT&SF Railroad Depot are depicted *West:* North Evergreen Street, Breeden Street and vacant land are depicted.	None
1949	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Section Housing is depicted on the southern portion of the site. A lumber shed is depicted on the western portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which, railroad tracks are depicted. *South:* The area is not depicted. *Southwest:* East Second Street, two vacant buildings and railroad tracks are depicted. *East:* AT&SF Railroad Depot and railroad tracks are depicted. *West:* North Evergreen Street, Breeden Street and lumber sheds are depicted.	None

TABLE 5-5 – SANBORN REVIEW			
Year	**Summary (on-site)**	**Summary (off-site)**	**Concerns**
1963	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Section Housing is depicted on the southern portion of the site. A lumber shed is depicted on the western portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which, railroad tracks are depicted. *South:* The area is not depicted. *Southwest:* Railroad tracks and vacant land are depicted. *East:* AT&SF Railroad Depot and railroad tracks are depicted. *West:* North Evergreen Street, Breeden Street and lumber sheds are depicted.	None
1969	Southern Pacific Railroad Depot is depicted on the northern portion of the site. Section Housing is depicted on the southern portion of the site. A planing mill and an office are depicted on the western portion of the site. Railroad tracks are depicted across the site.	*North:* East 4th Street, beyond which, railroad tracks are depicted. *South:* The area is not depicted. *East:* AT&SF Railroad Depot and railroad tracks are depicted. *Southwest:* Two concrete structures and East 2nd Street are depicted. *West:* Taylor Street is depicted, beyond which is a parking lot.	None

5.6 Previous Environmental Investigations

VERTEX was provided with and reviewed the following previous environmental reports regarding the site:

Report of Foundation Investigation, prepared by Law/Crandall, Inc. (LCI) for Rail Pacific, Inc., dated August 4, 1992.

LCI conducted a foundation investigation prior to the development of the current improvements. LCI drilled seven borings to depths ranging from six to 21 feet bgs and determined that soils below the site consist mostly of natural soils which consist of silty sand, silt, and sand. Fill soils were encountered in one of the borings comprised of silty gravel. LCI gathered samples and conducted compressibility tests to determine if the soils were suitable for development. It was

concluded that the existing natural soils at the site were moderately firm, but would lose strength when wetted and were not considered suitable for construction. LCI recommended two feet of the upper natural soils be removed and replaced with properly compacted fill.

Phase I Environmental Site Assessment Report, prepared by Secor International Incorporated (Secor) for GE Real Estate and North American Debt, dated July 11, 2005.

At the time of Secor's assessment, the site consisted of 2.92 acres developed as All Aboard Mini Storage. The site consisted of seven single-story self-storage structures and one single-story office/manager's apartment unit. Secor determined that the site was formerly developed as a residential property, a train depot and a railroad yard prior to the development of the current improvements. Secor reviewed a prior Phase I Site Assessment conducted by LCI in 1992. LCI observed surface soil staining along the former railroad tracks that was determined to be diesel fuel from the rail spurs or parked cars. According to a representative of Hyrail Partners II LP, the site was graded to a depth of approximately six feet bgs in 1993. The staining was determined to be *de minimis* based on the observed soil. Secor identified several adjoining facilities on regulatory databases, but did not identify specific RECs in connection with the site and recommended no further assessment for the site.

5.7 Summary of Historical Records Review

Based on a review of aerial photographs (1938-2012), topographic maps (1901-1981), city directories (1920-2012), Sanborn Maps (1885-1969), title records, previous environmental investigations, and interviews with municipal officials, the site was residentially occupied from at least 1885 until approximately 1906 when it was developed as a railway station and railroad tracks. Other areas of the site were further improved in 1949 with section housing and in 1969, with a planing mill. The site was vacant land from approximately 1994 until developed with the current improvements in 1995. Since 1995, the site has been occupied by a self-storage facility with an office/retail area and manager's apartment. No environmental concerns were identified with respect to the current use of the site. Based on the past use of the site for rail operations, in June 2013 VERTEX performed a Phase II LSI at the site. Please refer to Section 9.0 for additional information.

6.0 REGULATORY AGENCY RECORDS SEARCH

VERTEX reviewed a regulatory database report obtained from EDR. The EDR report is included in Appendix F. A review of databases and files from federal, state, and local environmental regulatory agencies was conducted to identify the use, generation, storage, treatment or disposal of hazardous materials and chemicals, or release incidents of such materials which may impact the site. The databases discussed in the following sections address ASTM requirements. Additional Federal and state databases were also reviewed. Please refer to the EDR report for a detailed listing.

A summary of the EDR database information is provided in Table 6-1.

TABLE 6-1 – REGULATORY DATABASE SUMMARY

Database	Radius	Target Property	Surrounding Facilities
National Priorities List (NPL)/De-listed NPL	1 Mile	-	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Sites	½ Mile	-	1
CERCLIS No Further Remedial Action Planned (NFRAP) Sites	½ Mile	-	0
Corrective Action Report (CORRACTS)	1 Mile	-	1
Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities	½ Mile	-	0
RCRA Hazardous Waste Generators	¼ Mile	-	21
RCRA Former Hazardous Waste Generators (Non-Gen)	¼ Mile	-	1
Facility Index System (FINDS)	Target Property	-	-
Emergency Response Notification System (ERNS)	Target Property	-	-
US Engineering and Institutional Controls (EC and IC)	½ Mile	-	0
State CERCLIS (ENVIROSTOR)	1 Mile	-	14
Solid Waste Facilities/Landfill Facilities (SWF/LF)	½ Mile	-	2
Voluntary Cleanup Program (VCP)	½ Mile	-	0
Leaking Underground Storage Tank (LUST)	½ Mile	-	32
Underground Storage Tank (UST)	¼ Mile	-	1

TABLE 6-1 – REGULATORY DATABASE SUMMARY			
Database	**Radius**	**Target Property**	**Surrounding Facilities**
Above Ground Storage Tank (AST)	¼ Mile	-	2
Historical (His) UST	¼ Mile	-	7
CA FID UST	¼ Mile	-	3
SWEEPS UST	¼ Mile	-	8
Spills, Leaks, Investigations & Cleanups (SLIC)	½ Mile	-	1
HIST Cal-Sites	½ Mile	-	0
HIST CORTESE	½ Mile	-	13
WIP	¼ Mile	-	0
HWP	1 Mile	-	1
DRYCLEANER sites	¼ Mile	-	0
EDR US Historical Auto Station	¼ Mile	-	29
EDR US Historical Cleaners	¼ Mile	-	3
US BROWNFIELDS	½ Mile	-	0
Financial Assurance	Target Property	-	-
SWRCY	½ Mile	-	3
EMI	Target Property	-	-
HAZNET	Target Property	-	-
Proposition 65 Records (Notify 65)	1 Mile	-	3
School Property Evaluation Program (SCH)	¼ Mile	-	1
California Bond Expenditure Plan (CA BOND EXP. PLAN)	1 Mile	-	1

Included in the EDR database report is an orphan summary. This summary identifies facilities that are contained on one of the above-referenced databases or lists, but that did not contain complete or accurate geographic data. Consequently, EDR was unable to map the facilities in relation to the site. VERTEX reviewed the orphan summary prior to inspecting the site and

surrounding properties. Orphan properties located within ASTM search distances of the subject site were incorporated into VERTEX's review.

6.1 Federal Regulatory Records

6.1.1 On-Site Listings

The site was not identified on the federal databases searched by EDR.

6.1.2 Off-Site Listings

A review of the federal regulatory databases revealed six RCRA-SQG facilities within 500 feet and up-gradient of the site, which are discussed in Table 6-2.

TABLE 6-2 – OFF-SITE LISTINGS

Facility	Distance/Direction	Regulatory Status
Joe's Transmission 117 North Standard	Adjoining/southwest / Hydraulically Up-gradient	This facility is identified on the RCRA-SQG database as a small SQG facility. No violations have been reported related to this facility.
Berlin Tire Center 115 North Standard	Adjoining/southwest / Hydraulically Up-gradient	This facility is identified on the RCRA-SQG database as a recycler of aqueous solutions with total organic residuals of less than ten percent. No violations have been reported related to this facility.
Tom's Truck Center 936 East 3rd Street	70-feet/west/ Hydraulically Up-gradient	This facility is identified on the RCRA-SQG database as a small SQG facility. No violations have been reported related to this facility.
Madison Materials 1035 East 4th Street	125-feet/north/ Hydraulically Up-gradient	This facility is identified on the RCRA-SQG database as generating ignitable hazardous wastes, corrosive hazardous wastes, wastewaters, process residuals, preservative drips, and spent solvent formulations from wood preserving processes, and bottom sediment sludge from the treatment of wastewaters from wood preserving processes. No violations have been reported related to this facility.
Rice Auto Parts 905 East 2nd Street	330-feet/west/ Hydraulically Up-gradient	This facility is identified on the RCRA-SQG database as generating lead. No violations have been reported related to this facility.
Federal Disposal Services 922 East 4th Street	420-feet/west/ Hydraulically Up-gradient	This facility is identified on the RCRA-SQG database as a transporter of hazardous wastes. No violations have been reported related to this facility.

Numerous facilities were identified on state and federal regulatory databases that are located within 500 feet and up-gradient of the site. Impact to the site from a release at one or more of these facilities cannot be ruled out. Therefore, these facilities are considered a concern to the site. There is no indicated similar use of chemicals on the site; therefore, it is unlikely that the owner or operator of the site would be required by a regulatory agency to address impacts to the site, if identified, emanating from an off-site source. Furthermore, we do not believe that impacts to the site emanating from off-site sources would present a vapor intrusion risk to site occupants given that (i) the depth to groundwater of 85 to 90 feet, (ii) the uses associated with those sites that are up-gradient of the on-site apartment unit do not present vapor intrusion risks, and (iii) the portions of the site that are down-gradient of areas of concern are occupied by parking lots and storage units.

Facilities located greater than 500 feet from the site or facilities located to the east and south of the site (down-gradient) are not expected to present a concern, based on hydrogeologic relationship, depth to groundwater and/or distance.

6.2 State and Local Regulatory Records

6.2.1 On-Site Listings

The site was not identified on the state and local regulatory databases searched by EDR.

6.2.2 Off-Site Listings

A review of state regulatory databases revealed two HIST UST facilities, two SWEEPS UST facilities, one SWF/LF facility, one AST facility, one CA FID UST facility, one LUST facility, one SWRCY facility, and one PROC facility within 500 feet and up-gradient to the site. These facilities are discussed in Table 6-3.

TABLE 6-3 – OFF-SITE LISTINGS		
Facility	**Distance/Direction**	**Regulatory Status**
various auto service businesses 115 North Standard Avenue	Adjoining/southwest / Hydraulically Up-gradient	This facility is listed on the EDR Historical Auto Stations database as KC Auto Collision in 1999 and from 2001 through 2002, as Kraaco Automotive Inc. in 2003, as Sterling Auto Body Centers from 2004 through 2008, and as To & Mo Auto Center from 2010 through 2012. No releases have been reported related to this facility.
Tom's Truck Center 1008 East 4th Street	70-feet/west/ Hydraulically Up-gradient	**HIST UST:** Identified for one, 7,600 gallon gasoline UST. **SWEEPS UST:** Identified for one, 7,500 gallon gasoline UST **LUST:** Release discovered in 1998, soil impact only, received closure in 1999. **CA FID UST:** Identified as an active UST
Lanier Body Shop, Cruz Auto Repair 936 East 2nd Street	90-feet/ southwest/ Hydraulically Cross-gradient	This facility is identified on the EDR Historical Auto Stations database as Lanier Body Shop in 2002 and 2005, and as Cruz Auto Repair in 2012. No releases have been reported related to this facility.
Madison Materials 1035 East 4th Street	125-feet/north/ Hydraulically Up-gradient	**SWF/LF:** Listed as a large volume transfer/processing facility of construction/demolition debris, green materials, inert, and metals. **AST:** Listed for one, 1,320 gallon AST
Vitec Inc. 1043 East 4th Street	125-feet/northeast/ Hydraulically Cross-gradient	**CA FID UST:** Identified as an active UST **HIST UST:** Identified for one, 5,500 gallon UST that was installed in 1970. **SWEEPS UST:** Identified as an active UST
Rice Auto Salvage 905 East 2nd Street	330-feet/west/ Hydraulically Up-gradient	**LUST:** Release of gasoline from an unknown source in 1991, impacted soil only, has not received closure.
Men Cal Recycling 941 East 4th Street	330-feet/northwest/ Hydraulically Up-gradient	This facility is identified on the SWRCY and PROC as a recycler of aluminum, glass, plastic and metals. No releases or violations have been reported related to this facility.

Numerous facilities were identified on state and federal regulatory databases that are located within 500 feet and up-gradient of the site. Impact to the site from a release at one or more of these facilities cannot be ruled out. Therefore, these facilities are considered a concern to the site. However, because there is no indicated similar use of chemicals on the site, it is unlikely that the owner or operator of the site would be required by a regulatory agency to address impact to the site, if identified. Furthermore, it does not appear that impact to the site would present a vapor intrusion risk to site occupants, given depth to groundwater of 85 to 90 feet, no use of concern up-gradient of the on-site apartment unit, and that the portion of the site down-gradient of the areas of concern are occupied by parking lots and storage units.

Facilities located greater than 500 feet from the site or facilities located to the east and south of

the site (down-gradient) are not expected to present a concern, based on hydrogeologic relationship, depth to groundwater and/or distance.

6.3 Local Records

On April 24, 2013, VERTEX submitted an Open Records Request to Orange County for records relative to the site. A summary of the information obtained is included in Table 6-3.

TABLE 6-3 – LOCAL RESEARCH SUMMARY

Office	Information Obtained	Comments
Orange County Recorder's Office	Property Information	See Section 3.2
Santa Ana Fire Department	Not Yet Received	VERTEX has not received a response to an open records request.
Orange County Environmental Health Department	Not Yet Received	VERTEX has not received a response to an open records request.

7.0 ON-SITE ENVIRONMENTAL ASSESSMENT

7.1 Underground Storage Tanks (USTs)

Visual evidence (i.e., pipes, vents, and dispensers) indicating existing on-site USTs was not observed at the site. In addition, according to records at the state and federal agencies as provided by EDR, as well as interviews with a site representative and local municipal officials, the site does not currently contain USTs. As such, on-site USTs are not considered a concern to this investigation.

7.2 Aboveground Storage Tanks (ASTs)

Visual evidence (i.e., pipes, vents, steel cradles, concrete pads) indicating existing on-site ASTs was not observed at the site. In addition, according to records at the state and federal agencies as provided by EDR, as well as interviews with a site representative and local municipal officials, the site does not currently contain ASTs. As such, on-site ASTs are not considered a concern to this investigation.

7.3 Hazardous Material Usage

VERTEX observed that site management utilizes a maintenance unit to store various household strength cleaning products, paints, construction supplies, pesticides and a golf cart. No evidence of leakage was observed in or around these maintenance spaces and all products are stored in their original containers. No staining was observed on the concrete floor of these units. According to Ms. Talbot, operations requiring the use of hazardous materials on-site are limited to cleaning and minor construction/maintenance activities. As such, hazardous material usage at the site is not considered an environmental concern.

7.4 Solid Waste Management

Non-hazardous solid waste generated on-site consists of general household and office waste. A dumpster for the collection and storage of solid waste is located on the western portion of the site. The dumpster is staged on paved surfaces and is serviced by Waste Management. No evidence of petroleum or chemical discharge or disposal was observed around the dumpster at the time of the site visit.

7.5 Hazardous Waste Management

Hazardous waste is not currently generated by on-site operations.

7.6 Unlabeled Drums/Containers

No unlabeled drums or containers were observed on the site.

7.7 Stained Soil or Pavement

No stained soil or pavement was observed on the site.

7.8 Stressed Vegetation

VERTEX did not encounter visual evidence of stressed vegetation or stained surfaces at the site.

7.9 Polychlorinated Biphenyl (PCB) Containing Equipment

Three pole-mounted transformers were observed southwest of the office building. The transformers were mounted onto a single pole located outside the site boundary. The transformers appeared to be in good condition, with no evidence of leaks or staining. As such, the presence of transformers is not considered a concern to this investigation.

7.10 Water, Wastewater and Storm-Water

7.10.1 Water Supply

The site is connected to the municipal water supply provided by the City of Santa Ana. No on-site potable water wells were noted during the site investigation. The City of Santa Ana was not able to provide a connection date for the site; however, it is likely the site was connected to the city water system when it was developed with the current improvements in 1995. No concerns were noted with the municipal water service provided to the site.

7.10.2 Wastewater

The City of Santa Ana provides sewer service to the site. The City of Santa Ana was not able to provide a connection date for the site; however, it is likely the site was connected to the city sewer system when it was developed with the current improvements in 1995. No concerns were noted with the city sewer service provided to the site. Sanitary wastewater is the only wastewater generated at the site.

7.10.3 Storm-Water

Storm-water discharges into a storm-water drain west of the site, along North Standard Avenue, which discharges to the city storm-water system. VERTEX did not observe evidence of staining around the storm drain.

7.11 Surface Water and Wetlands

The site was inspected for the presence of sensitive ecological areas by noting environmental indicators (e.g., wetland vegetation, floodplains) located on or immediately adjoining the site. No surface water or wetlands were identified on-site.

7.12 Pits, Ponds, Lagoons and Pools of Liquids

No pits, ponds, lagoons and/or pools of liquid were observed on-site.

7.13 Drains and Sumps

No floor drains or sumps were observed on-site.

7.14 Wells

No dry wells, injection wells or other wells were observed on-site.

7.15 Odors

VERTEX did not note strong, pungent, or noxious odors at the time of the site visit.

7.16 Dry Cleaning Operations

Site reconnaissance, as well as review of available municipal records and regulatory records, did not reveal the presence of current or historical on-site dry cleaning operations.

7.17 Site Specific Environmental Issues

No site-specific environmental concerns were identified during the assessment.

8.0 REVIEW OF NEARBY/ADJACENT PROPERTIES

The area surrounding the site consists of commercial and industrial properties. Adjoining properties were observed (from the site or from public access areas) for signs of RECs and their potential to pose an environmental concern to the site. The uses and features of adjoining properties are described in Table 8-1.

TABLE 8-1 – NEARBY/ADJACENT PROPERTY SUMMARY

Direction	Property Use	Concerns
North	East 4th Street, beyond which is Taqueria de Anda and Madison Materials (Ware Disposal).	Ware Disposal Co. is discussed in Section 6.2.2.
East	Joe Kunz Co., beyond which is railroad tracks	None
South	East 1st Street, beyond which is California Tool & Welding Supply.	None
Southwest	Various automotive facilities.	The automotive facilities are discussed in Sections 6.1.2 and 6.2.2.
West	Breeden Street, North Standard Avenue, and a parking lot, beyond which is Tom's Truck Center.	Tom's Truck Center is discussed in Sections 6.1.2 and 6.2.2.

9.0 PHASE II LIMITED SUBSURFACE INVESTIGATION

In accordance with VERTEX proposal P.0790.13-rev1, dated June 7, 2013, VERTEX conducted a Phase II LSI.

On June 17, 2013, under the oversight of VERTEX, Ground Penetrating Radar Systems, Inc. (GPRS) of Los Angeles, California, conducted a GPR survey at the site to pre-clear each soil boring of potential subsurface utilities. No subsurface anomalies were identified during the GPR survey.

On June 18, 2013, under the oversight of VERTEX, Martini Drilling Corporation of Huntington Beach, California, advanced four test borings (VB-1 through VB-4) on the site to depths of 30 feet bgs using direct-push drilling techniques. Refusal was not encountered at any of the soil boring locations. Locations of the soil borings are depicted on Figure 2 – Site Schematic.

Soil samples were collected continuously from a four-foot acetate macro core sleeve. After the sampling activities were completed, each boring location was backfilled with native soil and bentonite and patched at grade.

9.1 Site Geology and Hydrogeology

Lithology encountered at the site generally consisted of brown loamy soils at depths less than 20 feet bgs, and brown loamy clays at depths of greater than 20 feet bgs. Groundwater was not encountered during the drilling activities. Although a groundwater flow direction was not identified during this investigation, as previously mentioned, groundwater is inferred to flow to the southeast. Soil boring logs are included in Appendix H.

9.2 Soil Screening and Sampling

Each soil sample was screened for the presence of TVOCs using a PID calibrated to 100 parts-per million by volume (ppmv) of isobutylene. Field screening results did not detect TVOCs in

any of the soil samples screened at concentrations greater than 1 ppmv. Visual or olfactory evidence of impacts was not noted during this investigation. Select soil samples were collected from depths (16 to 20 feet bgs) less than the dense loamy clay layer encountered at depths of 20 feet bgs and greater. The soil samples were submitted to ESC Lab Sciences (ESC) of Mt. Juliet, Tennessee for the following analysis:

- Volatile Organic Compounds (VOCs) via EPA Method 8260B (4 soil, VB-1 to VB-4)
- Polynuclear Aromatic Hydrocarbons (PAHs) via EPA Method 8270 (4 soil, VB-1 to VB-4)
- Total Petroleum Hydrocarbons – Diesel Range Organics (TPH DRO) via EPA Method SW-846 8015 (4 soil, VB-1 to VB-4)
- Resource Conservation and Recovery Act (RCRA) 8 metals via EPA Methods 6010B/7471A (4 soil, VB-1 to VB-4)
- Polychlorinated Biphenyls (PCBs) via EPA Method 8081 (4 soil, VB-1 to VB-4)

As presented in Table 1, acetone was detected in soil samples VB-1 and VB-3 at concentrations of 0.011 milligrams per kilogram (mg/kg), below the California Regional Water Quality Board (RWQCB) Environmental Screening Levels (ESLs; Deep Soil Screening Levels) for Commercial/Industrial Land Use (0.5 mg/kg). Benzene was detected in soil sample VB-1 at a concentration of 0.001 mg/kg and in soil sample VB-3 at a concentration of 0.00042 mg/kg, below the RWQCB ESL of 0.044 mg/kg. Toluene was detected in soil sample VB-1 at a concentration of 0.00076 mg/kg, below the RWQCB ESL of 2.9 mg/kg. No other VOCs were detected at concentrations exceeding laboratory method reporting limits.

TPH DRO in the C10-C22 Hydrocarbons Range was detected in soil sample VB-4 at a concentration of 1.0 mg/kg, below the applicable RWQCB ESL of 530 mg/kg. No other TPH DRO fractions were detected at concentrations exceeding laboratory method reporting limits.

Barium was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 93 to 120 mg/kg, below the applicable California Human Health Screening Levels for Commercial/Industrial Land Use (CHHSL; 63,000 mg/kg) and the RWQCB ESL of 5,000

mg/kg. Chromium was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 11 to 16 mg/kg, below the RWQCB ESL of 5,000 mg/kg. There is no applicable CHHSL standard for total chromium. Lead was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 5.0 to 6.9 mg/kg, below the CHHSL of 3,500 mg/kg and the ESL of 320 mg/kg. Mercury was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 0.034 to 0.041 mg/kg, below the CHHSL of 180 mg/kg and the ESL of 88 mg/kg. Selenium was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 0.70 mg/kg to 1.9 mg/kg, below the CHHSL of 4,800 mg/kg and the ESL of 5,000 mg/kg. Cadmium and silver concentrations were not detected in the soil samples collected.

Arsenic was detected in soil samples VB-1, VB-2, VB-3, and VB-4 at concentrations ranging from 5.4 to 6.4 mg/kg, exceeding the applicable CHHSL of 0.24 mg/kg and the ESL of 0.96 mg/kg. However, according to a document obtained from the California DTSC website dated March 2008, the DTSC findings suggested that, in Southern California, 12 mg/kg may be a useful screening number for evaluating arsenic as a chemical of potential concern. As such, the arsenic concentrations identified are considered to be similar to background arsenic levels found throughout the region, and no regulatory reporting of these concentrations is required.

No PAHs or PCBs were detected in the soil samples collected at concentrations exceeding laboratory method reporting limits. Based on the results of the Phase II LSI, no additional action is warranted at this time.

10.0 FINDINGS AND CONCLUSIONS

VERTEX performed a Phase I ESA and a Phase II LSI in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 1030 East 4th Street, Santa Ana, California. Any exceptions to or deletions from this practice are described in Section 10.0. This assessment revealed no evidence of RECs in connection with the site. As such, no additional work is recommended at this time.

11.0 QUALIFICATIONS

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. VERTEX is not responsible for the independent conclusions, opinions or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Subsurface conditions were not field investigated as part of this study and may differ from the conditions implied by the surficial observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does this warrant operations or conditions present of a type or at a location not investigated. This report is not a regulatory compliance audit.

This study is not intended to assess if any groundwater contamination exists by subsurface sampling through the installation of monitoring wells. The scope of work, determined by the client, did not include these activities.

VERTEX reviewed past ownership of the project site in an attempt to determine past site usage. VERTEX is not a professional title insurance firm and makes no guarantee, explicit or implied, that the listing which was reviewed represented a comprehensive delineation of past site ownership or tenancy for legal purposes.

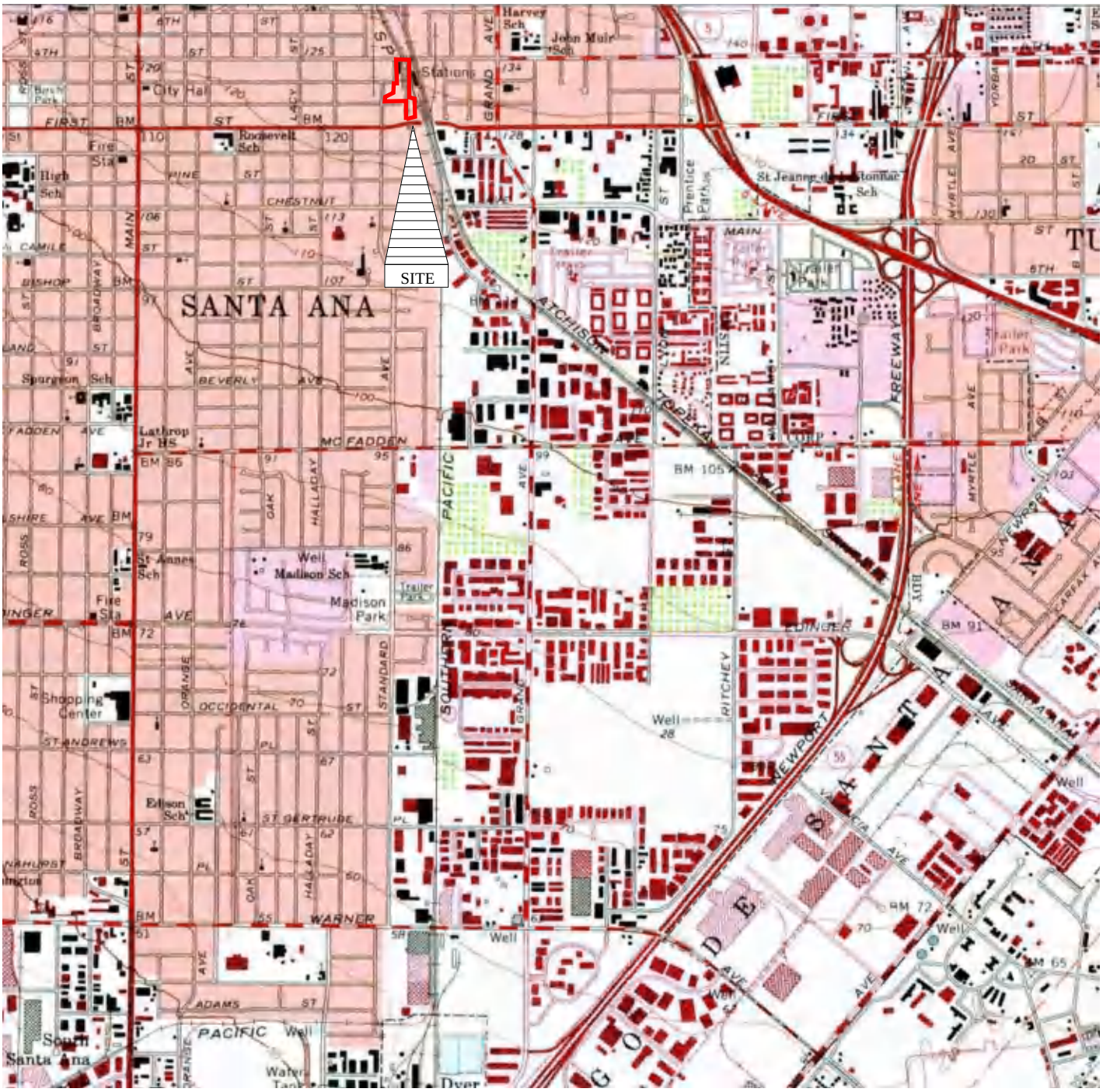
No significant data gaps which would affect VERTEX's ability to identify recognized environmental conditions at the site were identified during this investigation.

We have performed our services and prepared this report in accordance with applicable, generally accepted engineering, environmental or appraisal consulting practices. We make no other warranties, either expressed or implied, as to the character and nature of such services and product.

This report is for the exclusive use of Extra Space Storage LLC, its lenders, insurers, counsel and accountants. Use of this report by any other party shall be at such party's sole risk.

FIGURES

Figure 1: Site Locus
Figure 2: Site Schematic



USGS Topographic Map, dated 1981
Tustin, CA Quadrangle
Contour interval 10 feet

SITE LOCUS MAP

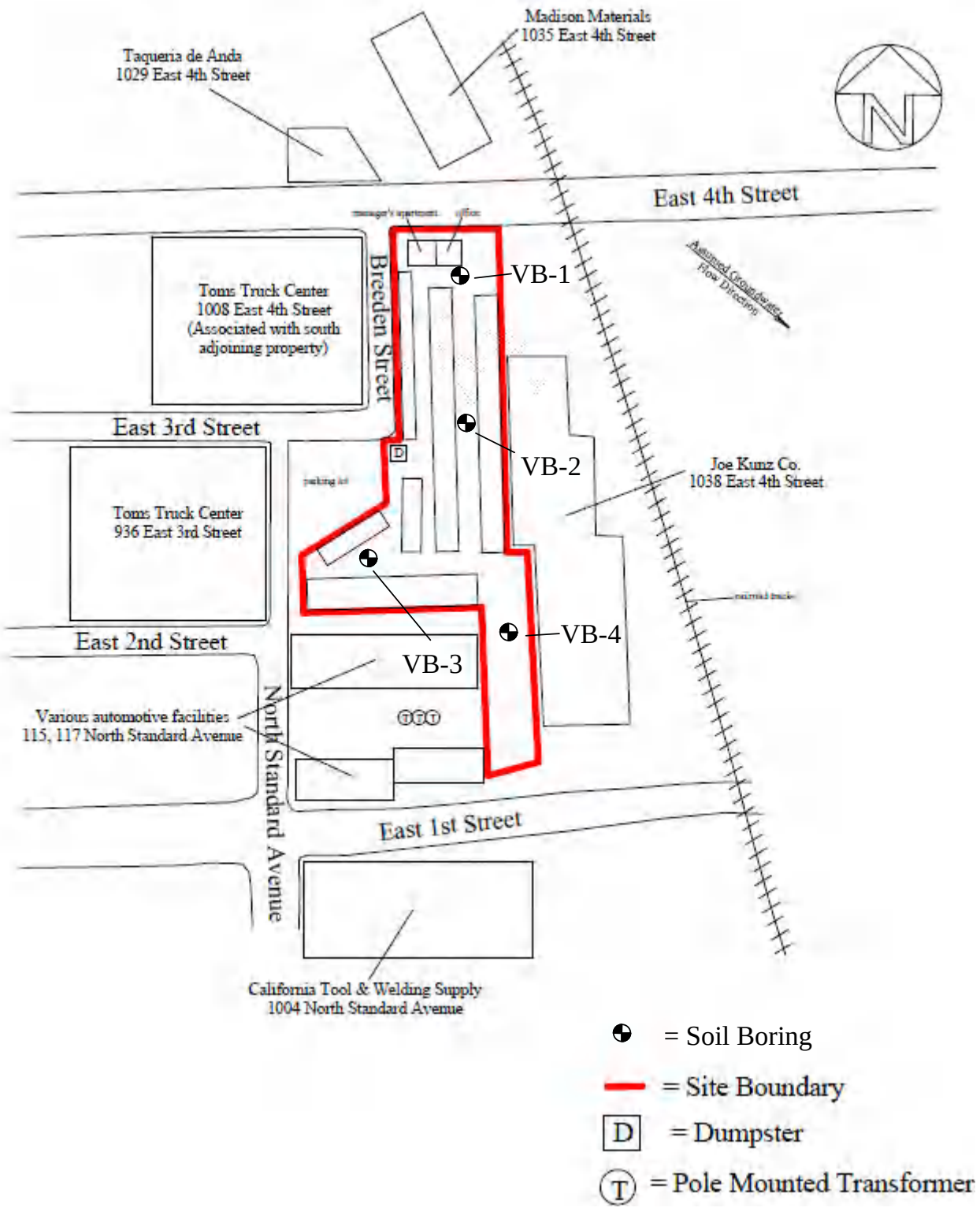
All Aboard Mini Storage
1030 East 4th Street
Santa Ana, California

Map Scale 1:24,000

May 2013

VERTEX Proj. No. 25121

VERTEX®
Environmental Services, Inc.
Figure No. 1



SITE SCHEMATIC All Aboard Mini Storage 1030 East 4th Street Santa Ana, California	SCALE: NOT TO SCALE June 2013 VERTEX Proj. No. 25121	VERTEX **Environmental Services, Inc.** **FIGURE NO. 2**

TABLE

Summary of Soil Sampling Results

Table 1
Summary of Soil Analytical Results
All Aboard Mini Storage
1030 East 4th Street
Santa Ana, California
Vertex Project No. 25121

LOCATION	CHHSL for Commercial/ Industrial Land Use[5]	RWQCB ESL for Commercial/ Industrial Land Use[6]	VB-1 (16-20')	VB-2 (16-20')	VB-3 (16-20')	VB-4 (16-20')
SAMPLING DATE			6/18/2013	6/18/2013	6/18/2013	6/18/2013
LAB SAMPLE ID			L642306-01	L642306-02	L642306-03	L642306-04
Diesel Range Organics California						
C10-C22 Hydrocarbons	NS	530	ND (0.73)	ND (0.73)	ND (0.73)	1.0
C22-C32 Hydrocarbons	NS	530	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
C32-C40 Hydrocarbons	NS	530	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)
Polynuclear Aromatic Hydrocarbons (PAHs)						
All PAHs	NS	Various	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs)						
Total PCBs	0.3	0.25	ND	ND	ND	ND
Volatile Organic Compounds (VOCs)						
Acetone	NS	0.5	0.011	ND (0.01)	0.011	ND (0.01)
Benzene	NS	0.044	0.001	ND (0.00027)	0.00042	ND (0.00027)
Toluene	NS	2.9	0.00076	ND (0.00043)	ND (0.00043)	ND (0.00043)
All other VOCs*	NS	Various	ND	ND	ND	ND
RCRA 8 Metals						
Arsenic	0.24	0.96	6.3**	5.5**	5.4**	6.4**
Barium	63,000	5,000	110	93	100	120
Cadmium	7.5	1,000	ND (0.035)	ND (0.035)	ND (0.035)	ND (0.035)
Chromium	NS	5,000	13.0	11.0	12.0	16.0
Lead	3,500	320	6.1	5.0	5.6	6.9
Mercury	180	88	0.039	0.036	0.034	0.041
Selenium	4,800	5,000	1.5	0.70	1.5	1.9
Silver	4,800	5,000	ND (0.14)	ND (0.14)	ND (0.14)	ND (0.14)

Notes
1) ND indicates non detect; laboratory method reporting limit in parenthesis
2) NS indicates no applicable standard
4) Units: milligrams per kilogram (mg/kg)
5) Regulatory Criteria: California Human Health Screening Levels in Evaluation of Contaminated Properties (January 2005)
6) Regulatory Criteria: California Regional Water Quality Board Environmental Screening Levels
(Deep Soil Screening Levels) for Commercial/Industrial Land Use (May 2013)
7) * = See Laboratory Analytical Report for a full list of analytes
8) ** = According to the California DTSC website, in southern California 12 mg/kg is a useful screening number for evaluating arsenic as a potential concern.
9) - = Not analyzed

Appendix A: Photographic Documentation

Photographic Documentation
All Aboard Storage
1030 East 4th Street
Santa Ana, California
Project No. 25121

Photograph: 1 **Description:** Photo of office area.	

Photograph: 2 **Description:** Photo of dumpster enclosure.	

Photographs taken by Ken Jones on 4/30/13

Photographic Documentation
All Aboard Storage
1030 East 4th Street
Santa Ana, California
Project No. 25121

Photograph: 3 **Description:** Photo of maintenance unit.	
Photograph: 4 **Description:** Photo inside manager's apartment.	

Photographic Documentation
All Aboard Storage
1030 East 4th Street
Santa Ana, California
Project No. 25121

Photograph: 5 **Description:** Photo of HVAC unit.	

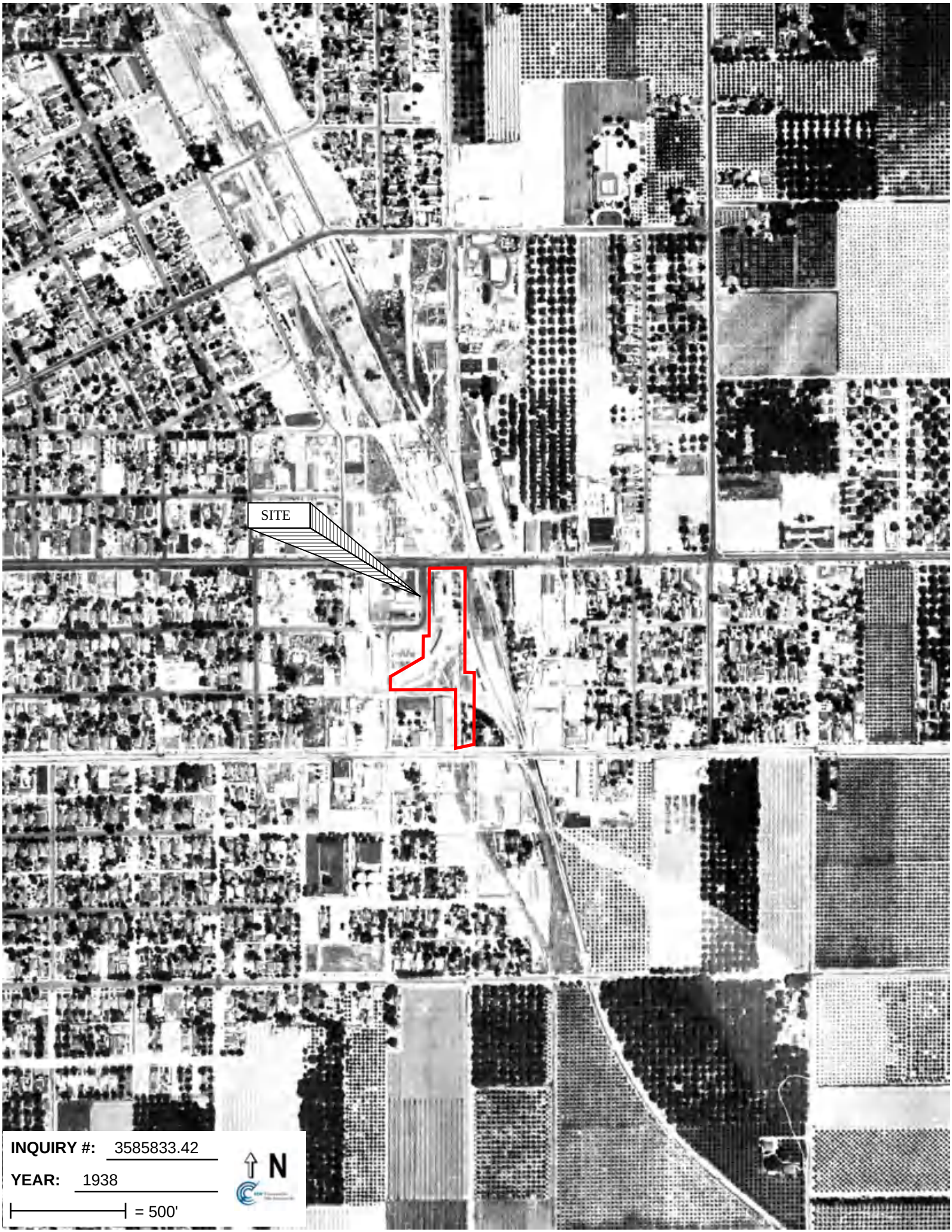
Photograph: 6 **Description:** Photo of vehicle storage area.	

Photographic Documentation
All Aboard Storage
1030 East 4th Street
Santa Ana, California
Project No. 25121

Photograph: 7 **Description:** Photo of self-storage buildings.	

Photograph: 8 **Description:** Photo of off-site transformers.	

APPENDIX C:
AERIAL PHOTOGRAPHS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SITE
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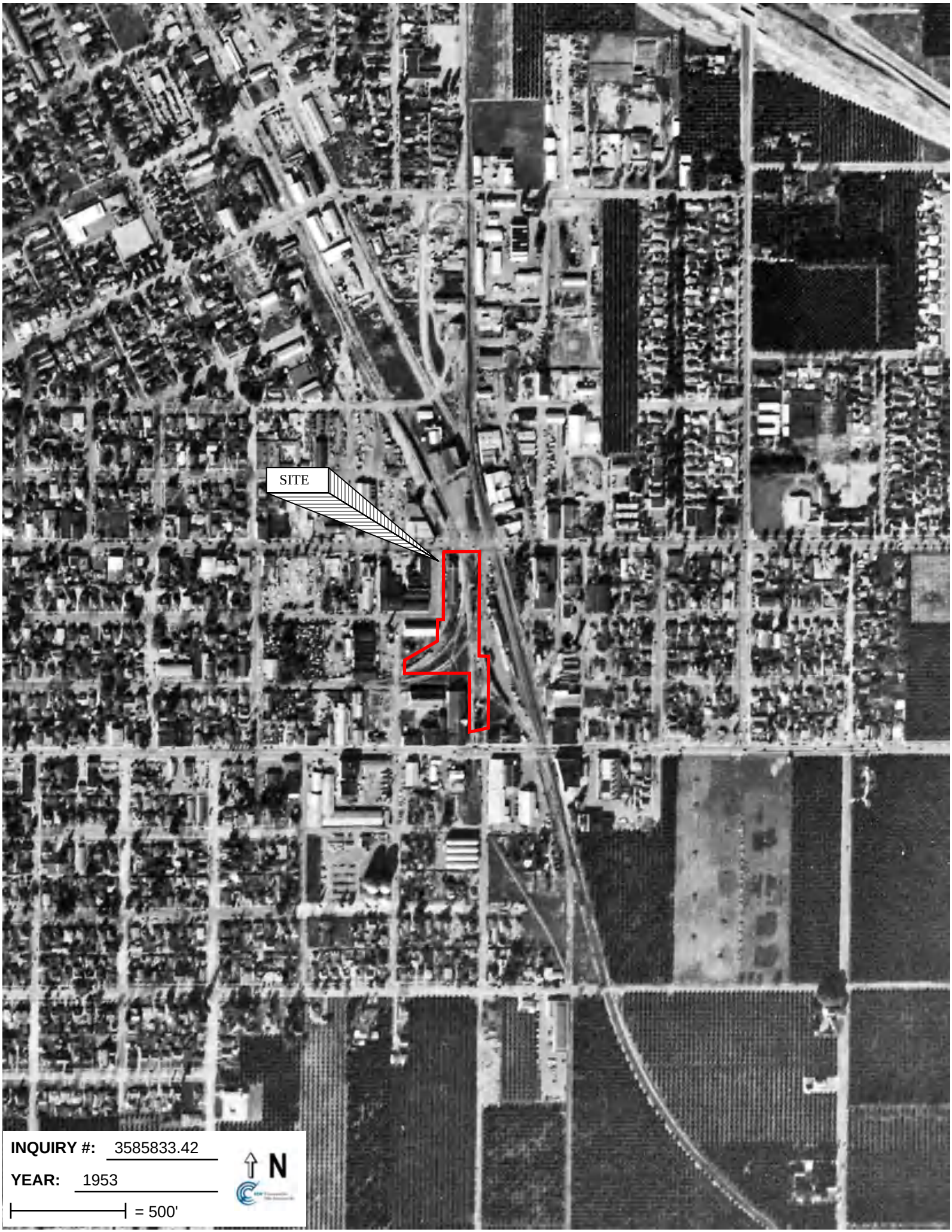
YEAR: 1947
= 500'
N



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YEAR: 1953

= 500'

N

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YEAR: 1960
= 500'
N

SITE
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YEAR: 1968
= 500'
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SITE
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YEAR: 1977
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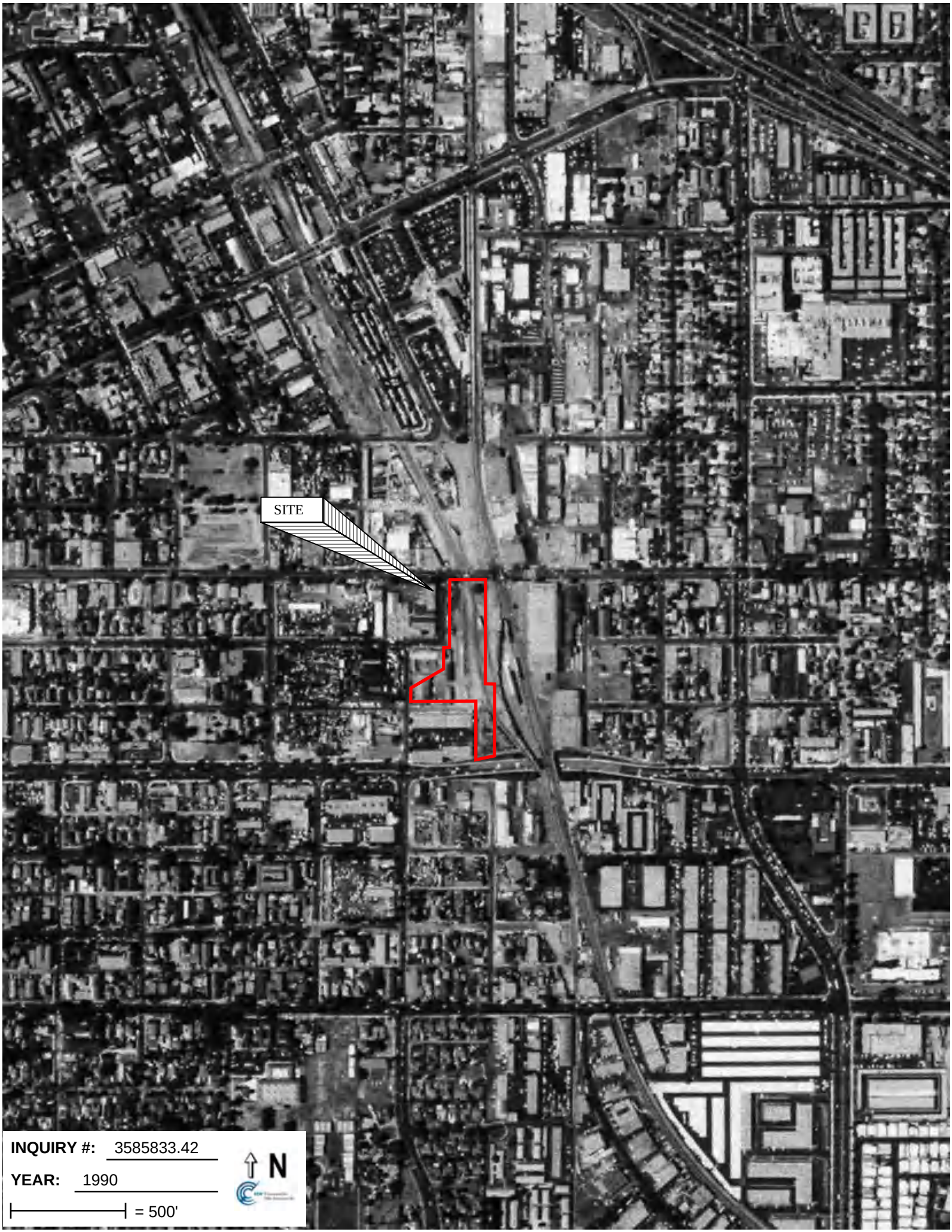
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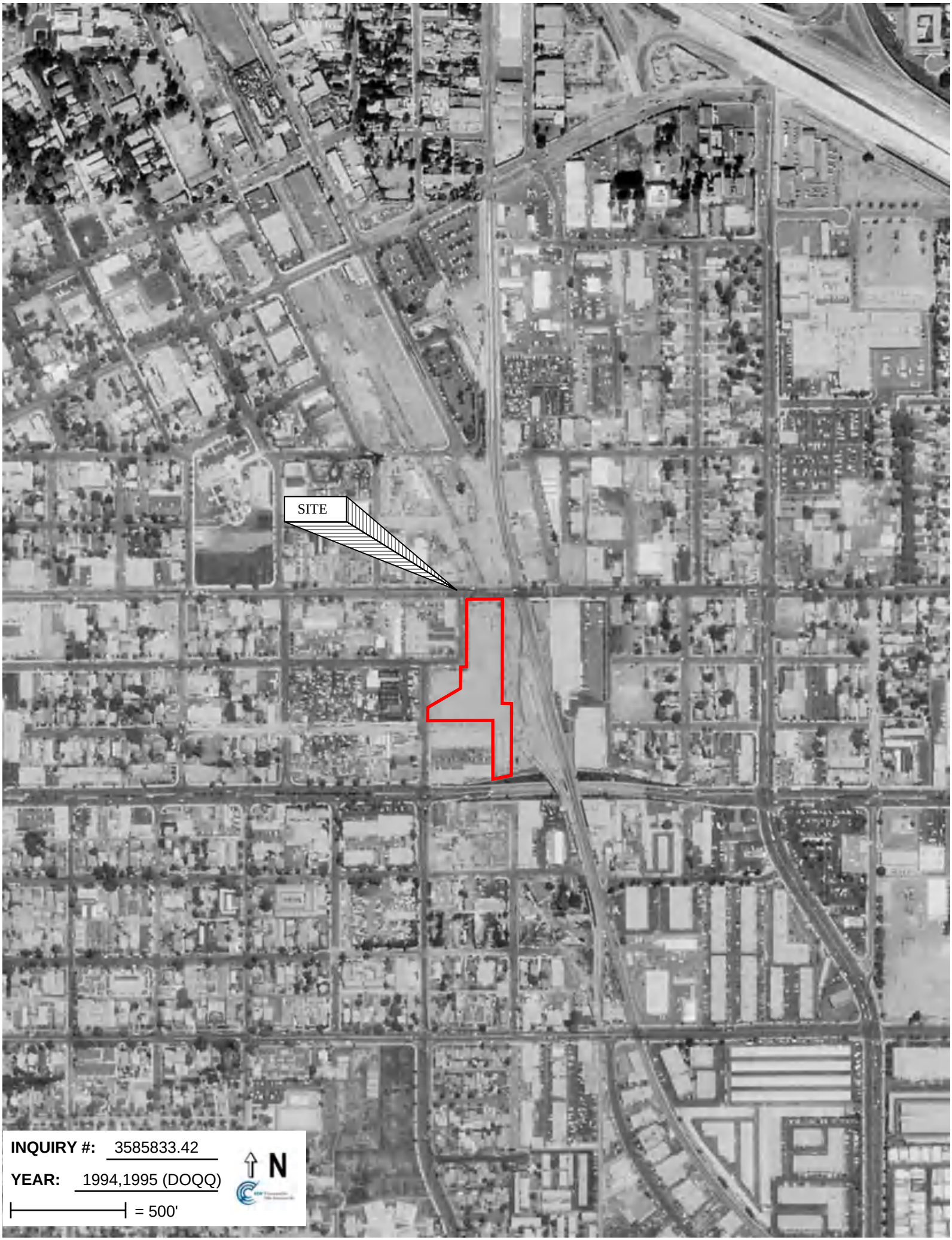
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INQUIRY #: 3585833.42
YEAR: 1994,1995 (DOQQ)
= 500'
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SITE
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YEAR: 2005
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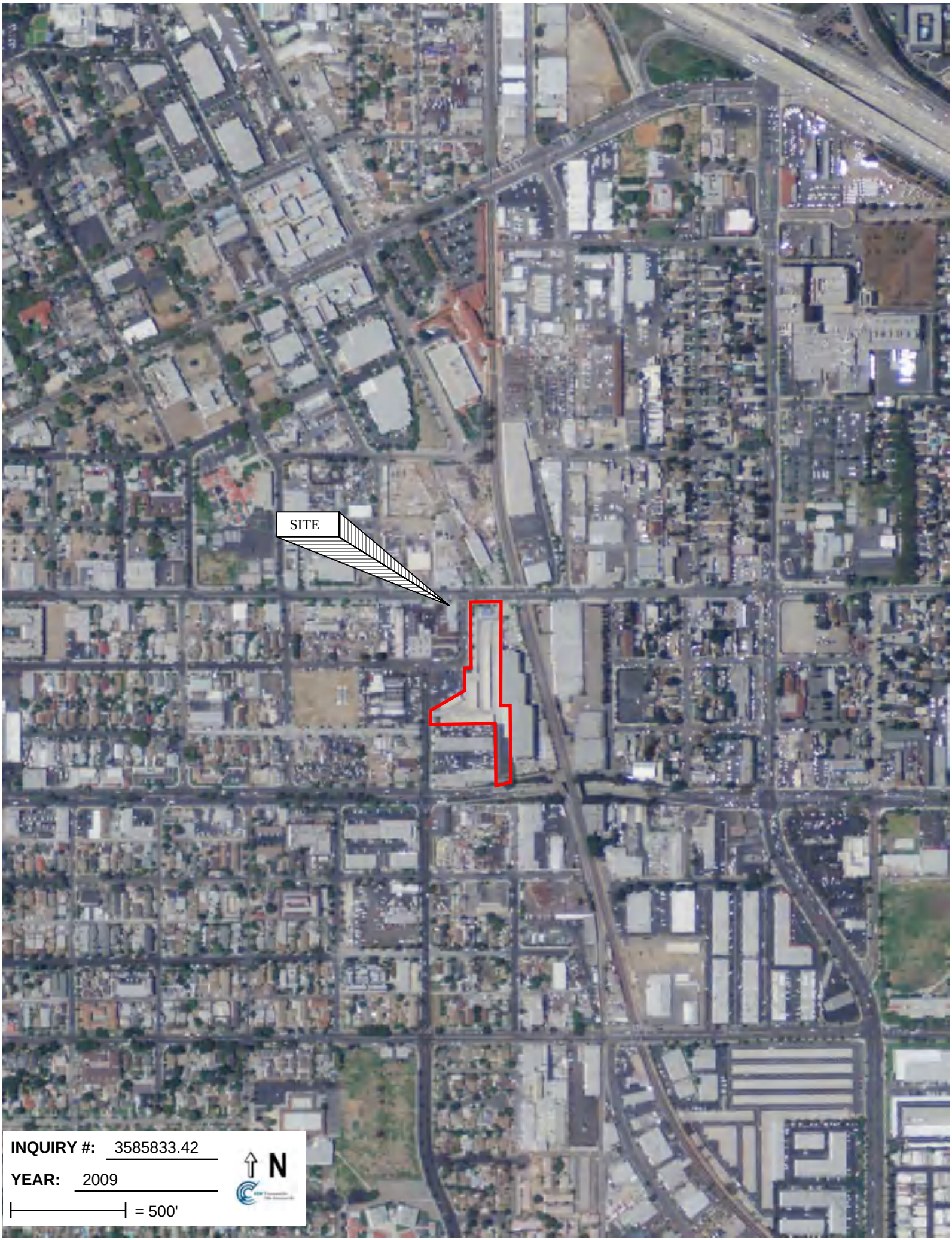
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YEAR: 2009
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SITE
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YEAR: 2010
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YEAR: 2012
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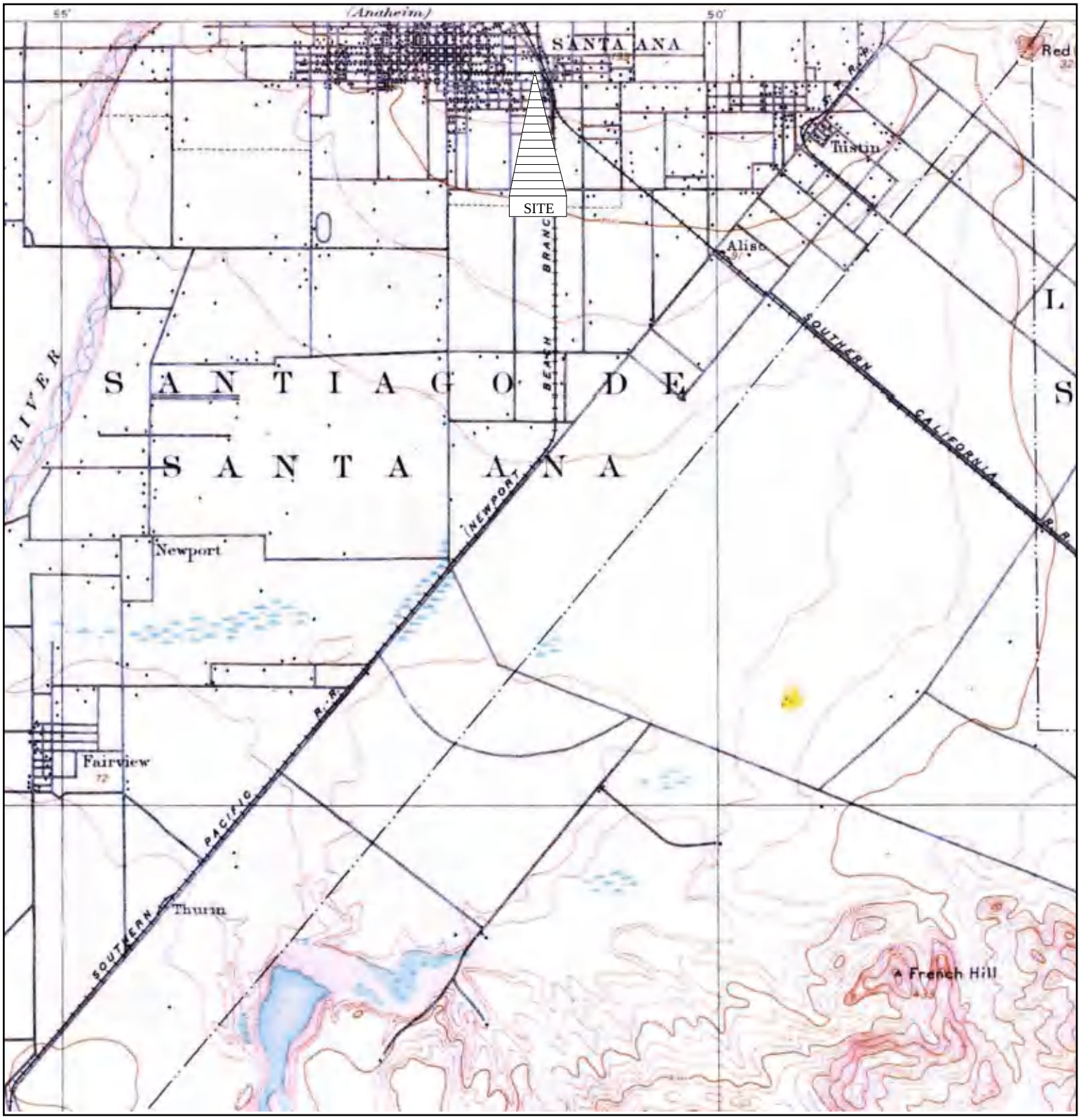
APPENDIX D:

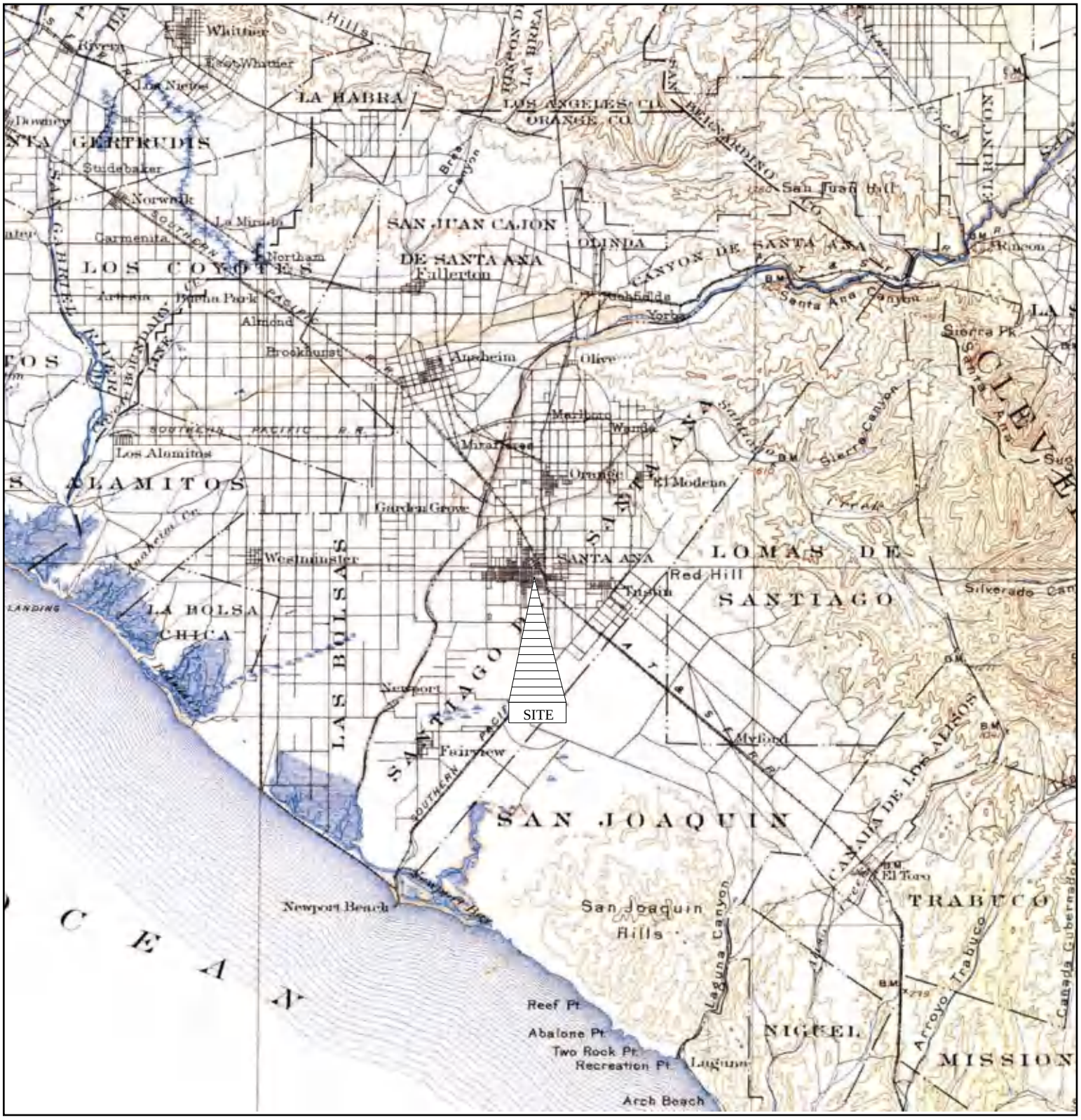
TOPOGRAPHIC MAPS

Historical Topographic Map



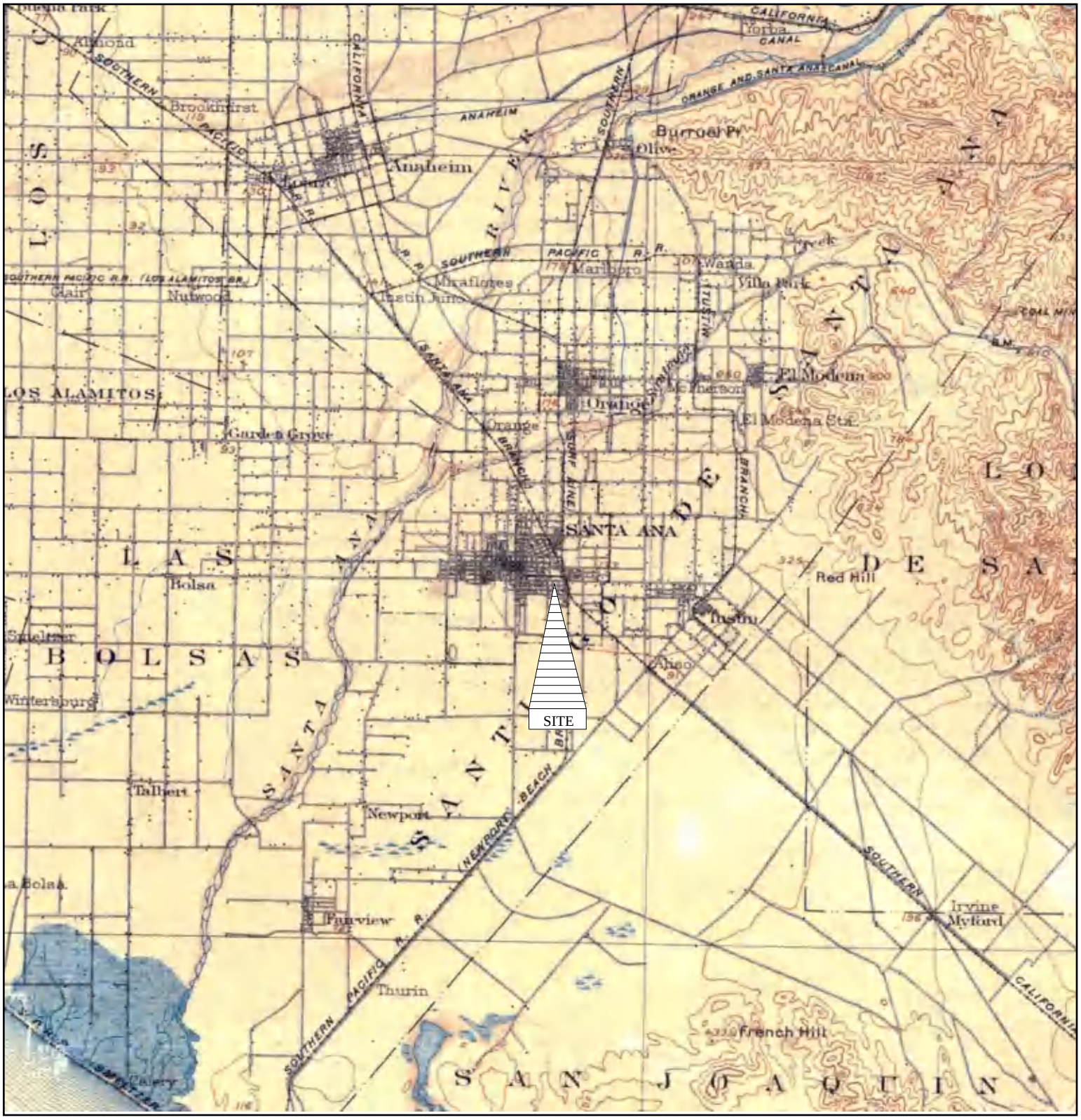
N	TARGET QUAD			
	NAME:	SANTA ANA	SITE NAME: All Aboard Mini Storage	CLIENT: Vertex Engineering Services
	MAP YEAR:	1901	ADDRESS: 1030 East 4th Street	CONTACT: Stephanie Lynch
			Santa Ana, CA 92701	INQUIRY#: 3585833.40
	SERIES:	15	LAT/LONG: 33.7477 / -117.8562	RESEARCH DATE: 04/24/2013
	SCALE:	1:62500		

Historical Topographic Map



N	TARGET QUAD NAME: SOUTHERN CA SHEET 1 MAP YEAR: 1901 SERIES: 60 SCALE: 1:250000	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

Historical Topographic Map



N	TARGET QUAD			
	NAME:	CORONA	SITE NAME: All Aboard Mini Storage	CLIENT: Vertex Engineering Services
	MAP YEAR:	1902	ADDRESS: 1030 East 4th Street	CONTACT: Stephanie Lynch
			Santa Ana, CA 92701	INQUIRY#: 3585833.40
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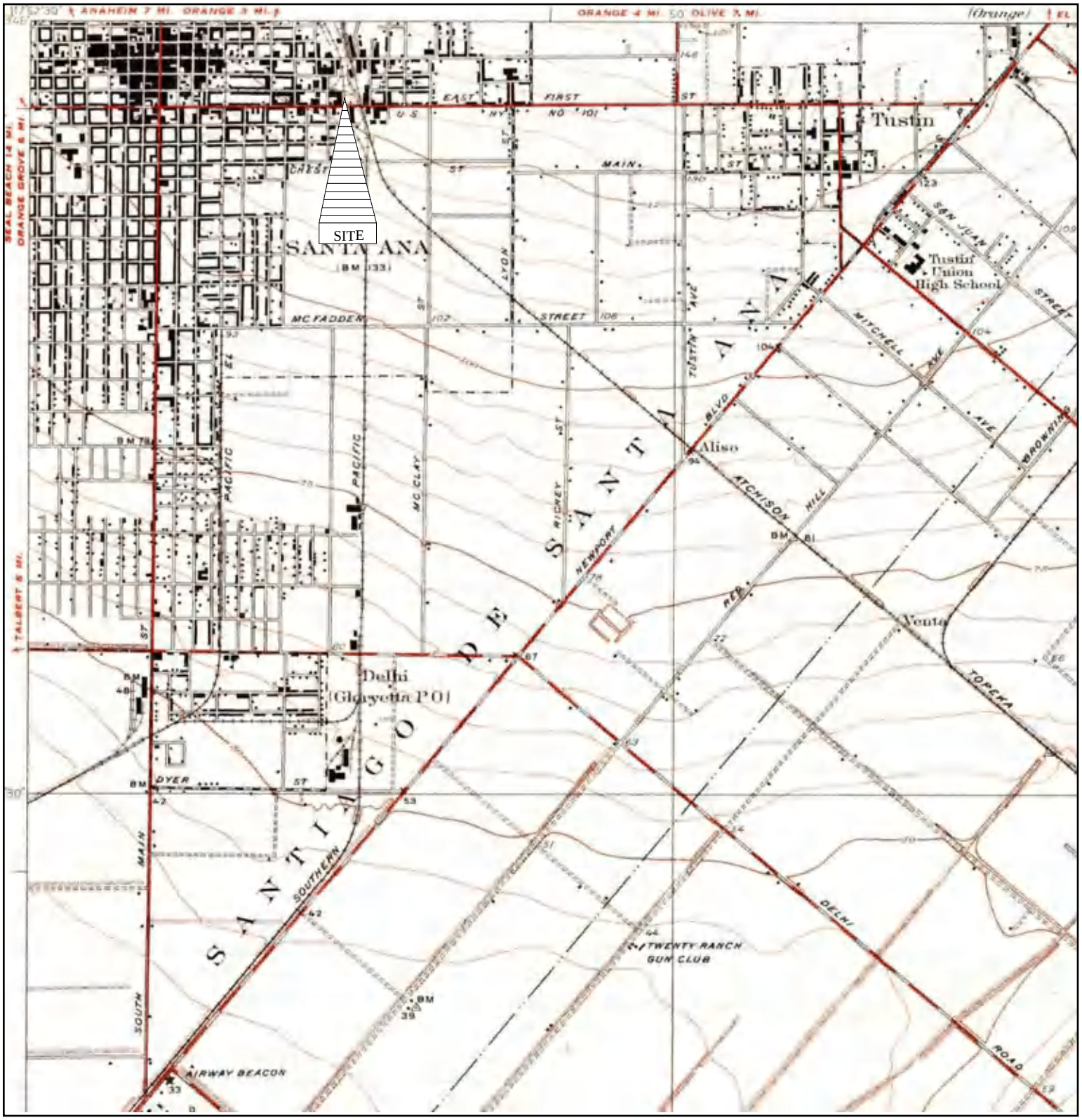
	SCALE:	1:125000		

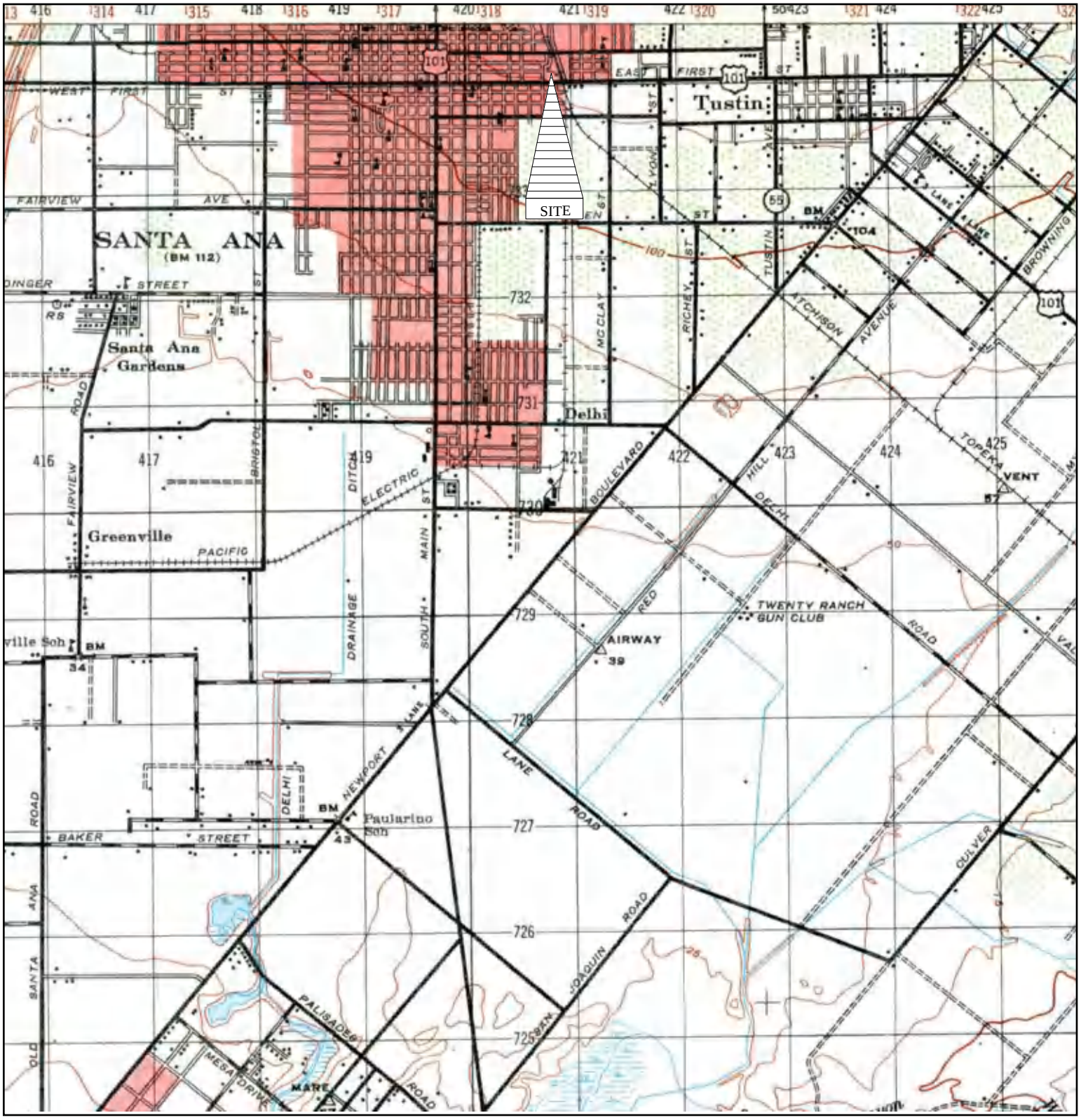
Historical Topographic Map



Unsurveyed Area on the Topographic Map

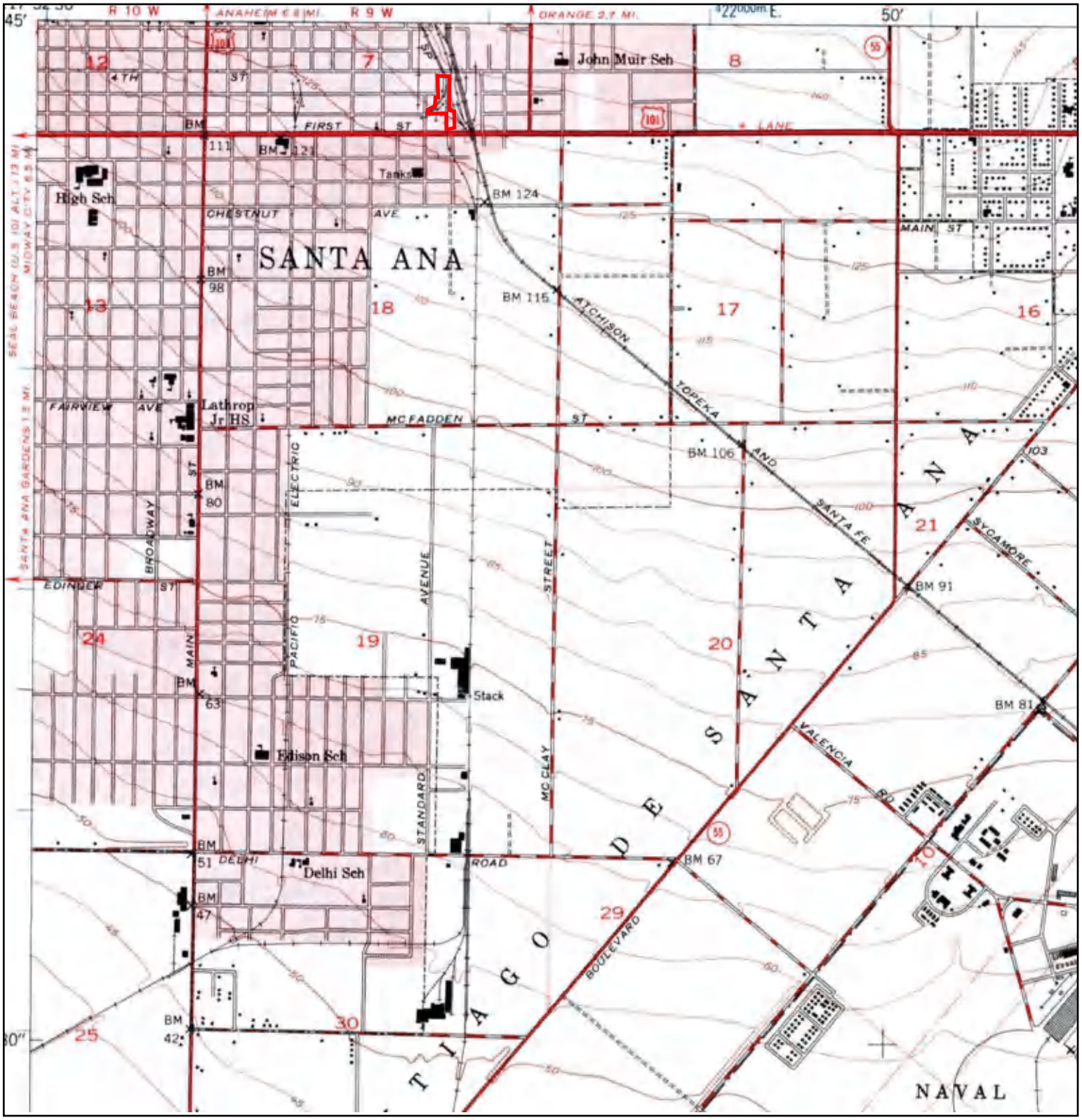
N	TARGET QUAD NAME: TUSTIN MAP YEAR: 1935 SERIES: 7.5 SCALE: 1:31680	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

Historical Topographic Map



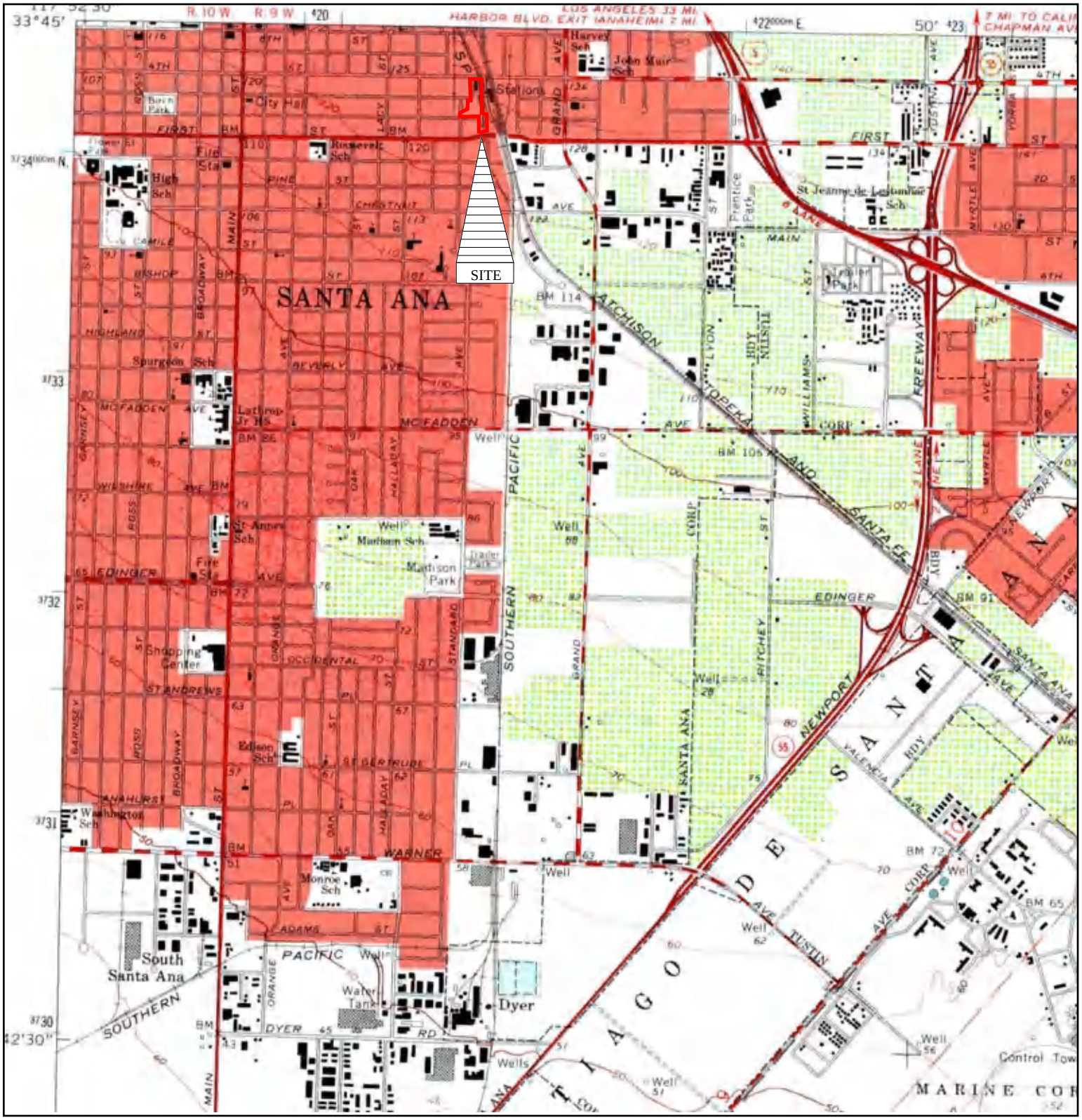
N	TARGET QUAD NAME: SANTA ANA MAP YEAR: 1942 SERIES: 15 SCALE: 1:50000	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

Historical Topographic Map



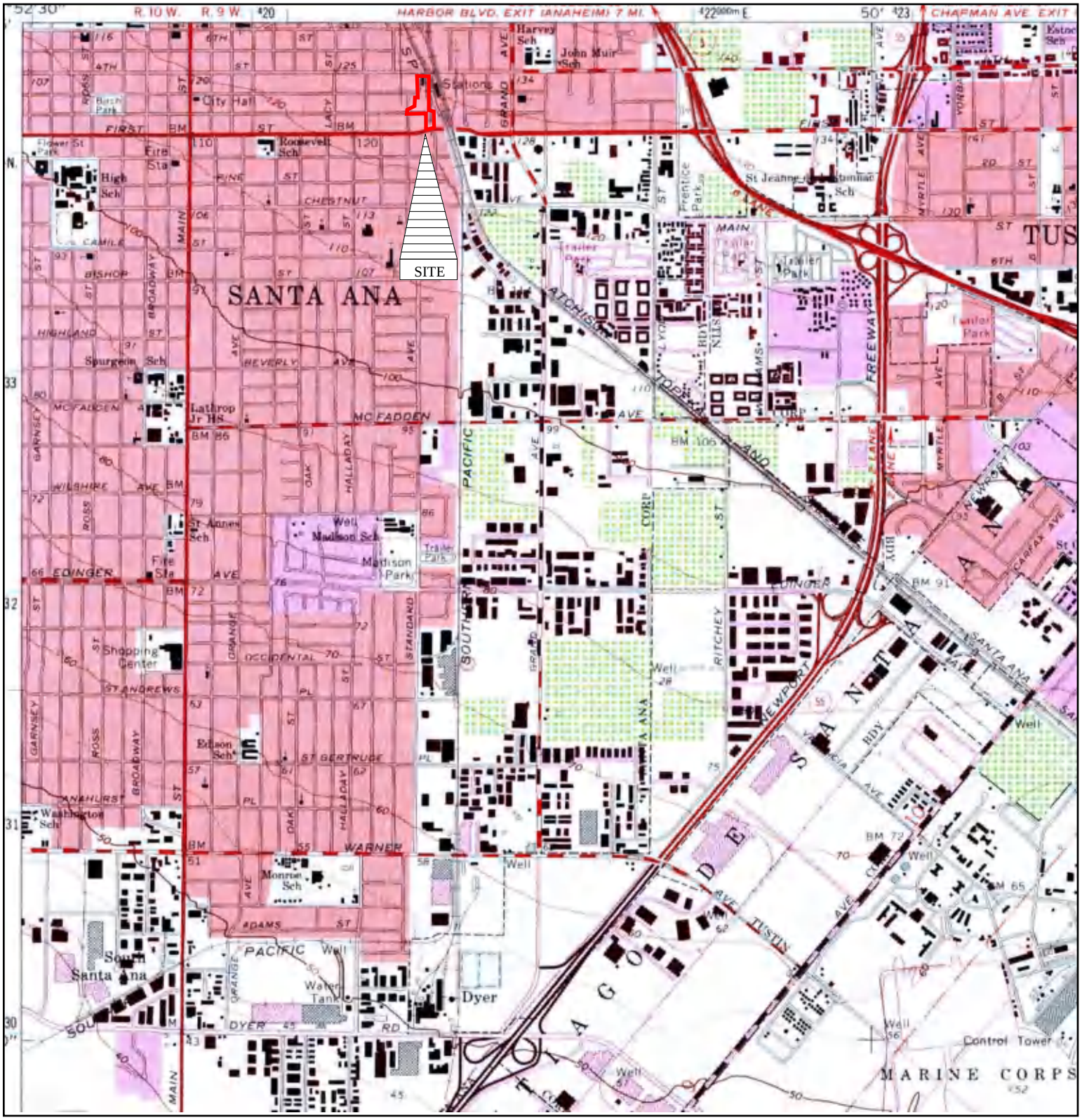
N	TARGET QUAD NAME: TUSTIN MAP YEAR: 1948 SERIES: 7.5 SCALE: 1:24000	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

Historical Topographic Map



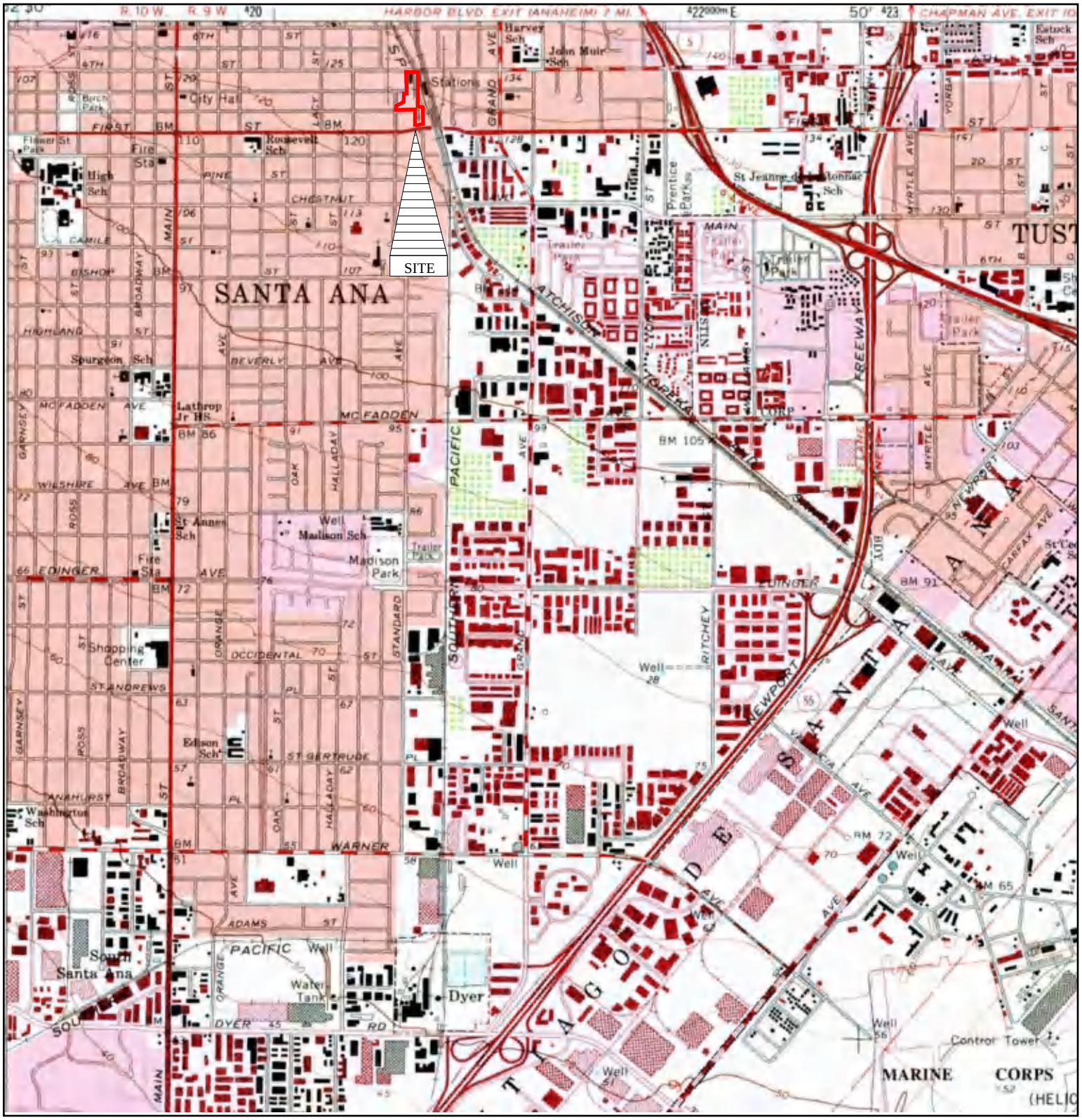
N	TARGET QUAD NAME: TUSTIN MAP YEAR: 1965 SERIES: 7.5 SCALE: 1:24000	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

Historical Topographic Map



N	TARGET QUAD NAME: TUSTIN MAP YEAR: 1972 PHOTOREVISED FROM :1965 SERIES: 7.5 SCALE: 1:24000	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

Historical Topographic Map

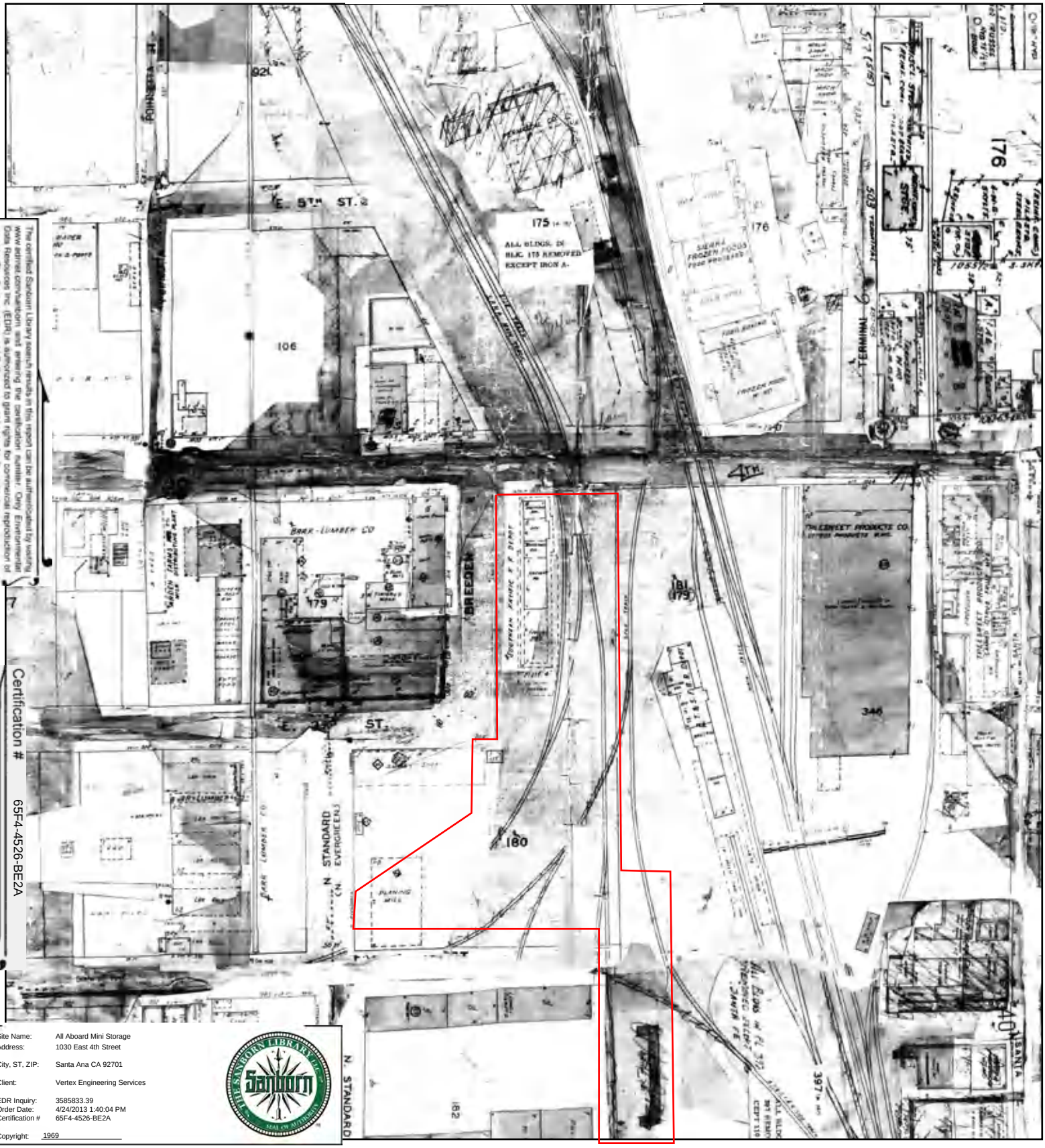


N	TARGET QUAD NAME: TUSTIN MAP YEAR: 1981 PHOTOREVISED FROM :1965 SERIES: 7.5 SCALE: 1:24000	SITE NAME: All Aboard Mini Storage ADDRESS: 1030 East 4th Street Santa Ana, CA 92701 LAT/LONG: 33.7477 / -117.8562	CLIENT: Vertex Engineering Services CONTACT: Stephanie Lynch INQUIRY#: 3585833.40 RESEARCH DATE: 04/24/2013

APPENDIX E:

SANBORN FIRE INSURANCE MAPS

1969 Certified Sanborn Map



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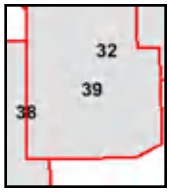
Certification # 65F4-4526-BE2A

Site Name: All Aboard Mini Storage
Address: 1030 East 4th Street
City, ST, ZIP: Santa Ana CA 92701
Client: Vertex Engineering Services
EDR Inquiry: 3585833.39
Order Date: 4/24/2013 1:40:04 PM
Certification # 65F4-4526-BE2A
Copyright: 1969

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



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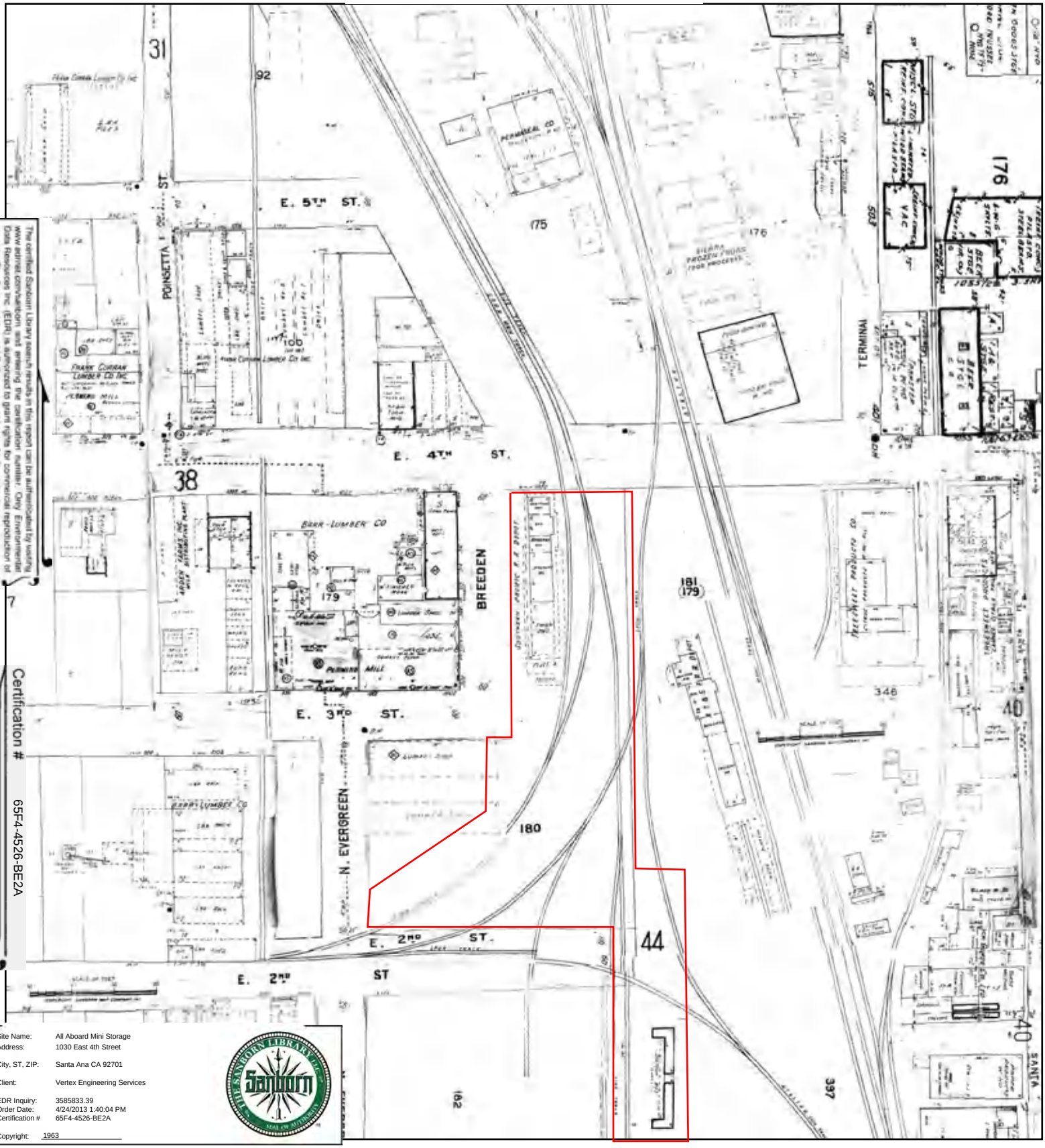
Volume 1, Sheet 38
Volume 1, Sheet 39

0 Feet 150 300 600

1963 Certified Sanborn Map



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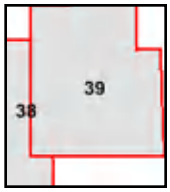
Certification # 65F4-4526-BE2A

Site Name: All Aboard Mini Storage
Address: 1030 East 4th Street
City, ST, ZIP: Santa Ana CA 92701
Client: Vertex Engineering Services
EDR Inquiry: 3585833.39
Order Date: 4/24/2013 1:40:04 PM
Certification # 65F4-4526-BE2A
Copyright: 1963

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



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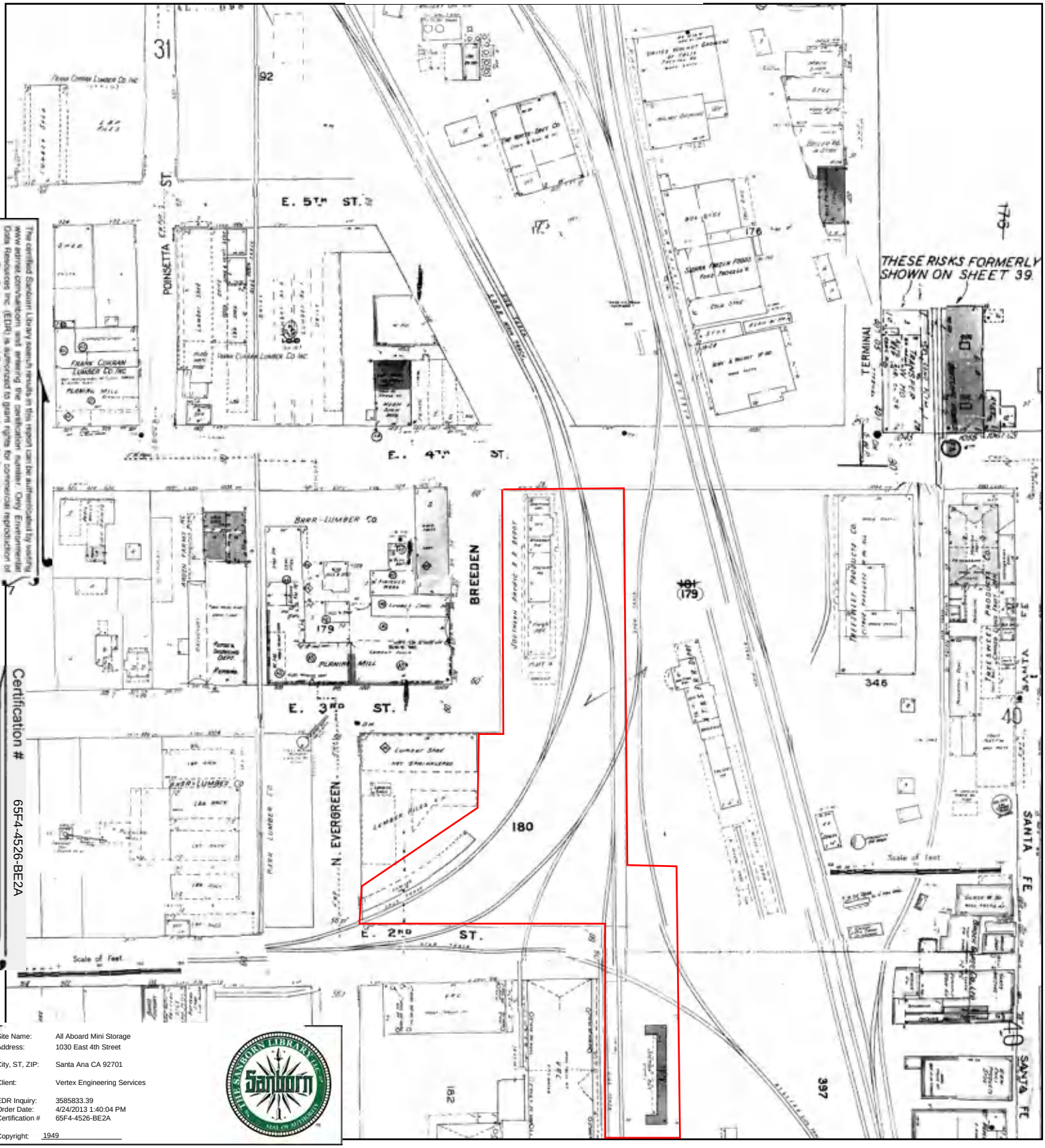
Volume 1, Sheet 39

1949 Certified Sanborn Map



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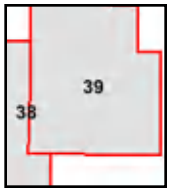
Certification # 65F4-4526-BE2A

Site Name:	All Aboard Mini Storage
Address:	1030 East 4th Street
City, ST, ZIP:	Santa Ana CA 92701
Client:	Vertex Engineering Services
EDR Inquiry:	3585833.39
Order Date:	4/24/2013 1:40:04 PM
Certification #	65F4-4526-BE2A
Copyright:	1949

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



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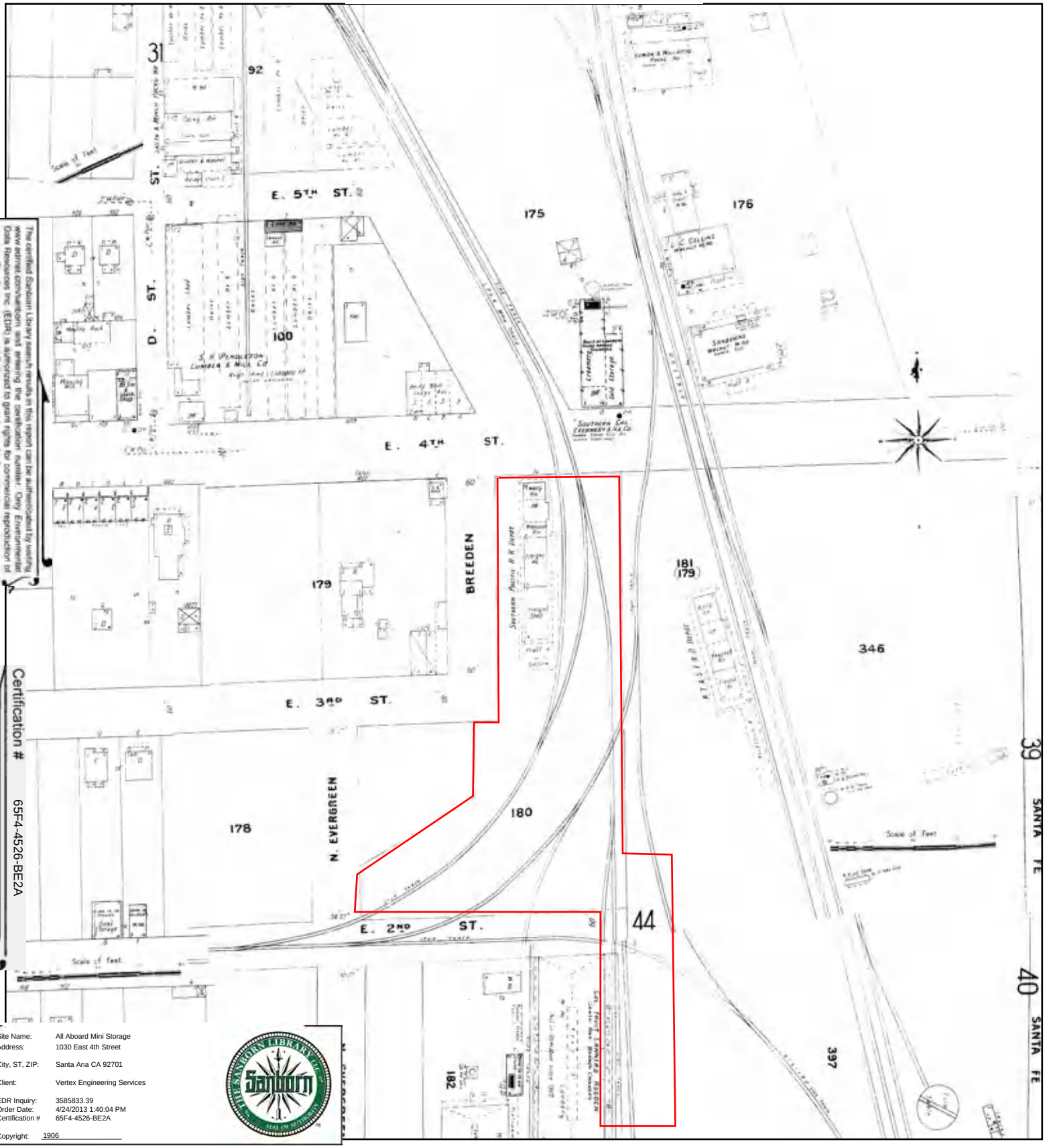
Volume 1, Sheet 39

0 Feet 150 300 600

1906 Certified Sanborn Map



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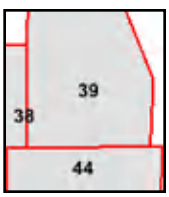
Certification # 65F4-4526-BE2A

Site Name: All Aboard Mini Storage
Address: 1030 East 4th Street
City, ST, ZIP: Santa Ana CA 92701
Client: Vertex Engineering Services
EDR Inquiry: 3585833.39
Order Date: 4/24/2013 1:40:04 PM
Certification #: 65F4-4526-BE2A
Copyright: 1906

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



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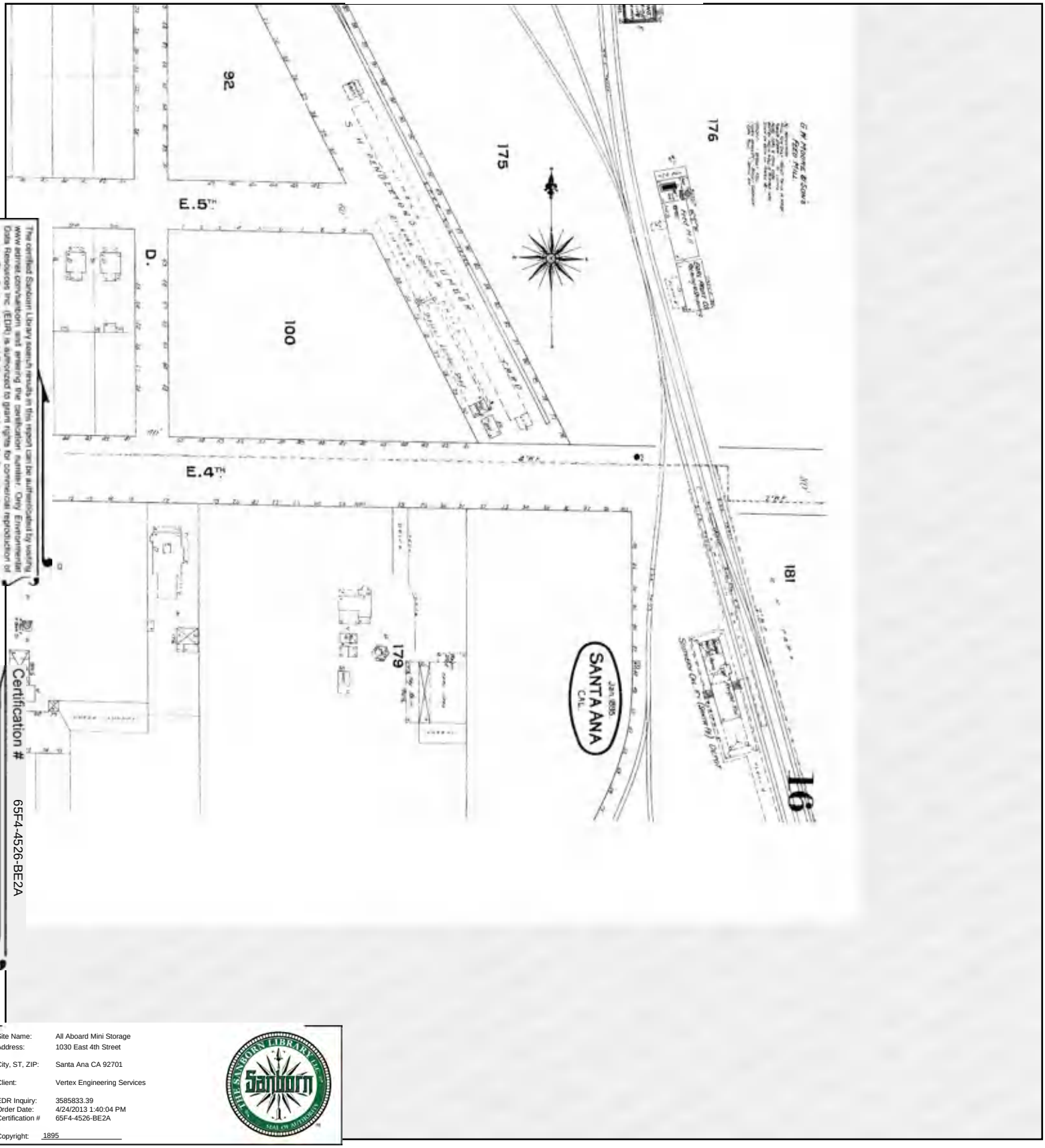
0 Feet 150 300 600

1895 Certified Sanborn Map



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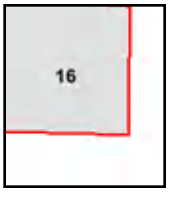
Certification # 65F4-4526-BE2A

Site Name: All Aboard Mini Storage
Address: 1030 East 4th Street
City, ST, ZIP: Santa Ana CA 92701
Client: Vertex Engineering Services
EDR Inquiry: 3585833.39
Order Date: 4/24/2013 1:40:04 PM
Certification # 65F4-4526-BE2A
Copyright: 1895

This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



Volume 1, Sheet 16

APPENDIX F:

REGULATORY DATABASE REPORT

Extra Space Storage #1536
1030 East 4th Street
Santa Ana, CA 92701

Inquiry Number: 4228390.2s
March 09, 2015

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1030 EAST 4TH STREET
ORANGE County, CA 92701

COORDINATES

Latitude (North):	33.7472000 - 33° 44' 49.92''
Longitude (West):	117.8561000 - 117° 51' 21.96''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	420704.7
UTM Y (Meters):	3734262.0
Elevation:	131 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	33117-F7 TUSTIN, CA
Most Recent Revision:	1981
North Map:	33117-G7 ORANGE, CA
Most Recent Revision:	1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120505
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ALLIS TIRES 1030 E 4TH ST SANTA ANA, CA 92701	HAULERS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ---------- CERCLIS No Further Remedial Action Planned

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls
LUCIS ---------- Land Use Control Information System

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST ---------- Underground Storage Tanks on Indian Land

FEMA UST ---- Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
WMUDS/SWAT ---- Waste Management Unit Database

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---- Clandestine Drug Labs
HIST Cal-Sites ---- Historical Calsites Database
Toxic Pits ---- Toxic Pits Cleanup Act Sites
CDL ---- Clandestine Drug Labs
US HIST CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information
LIENS ---- Environmental Liens Listing
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing
Orange Co. Industrial Site ---- List of Industrial Site Cleanups
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
ROD ---- Records Of Decision
UMTRA ---- Uranium Mill Tailings Sites
US MINES ---- Mines Master Index File
TRIS ---- Toxic Chemical Release Inventory System
TSCA ---- Toxic Substances Control Act
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
UIC	UIC Listing
NPDES	NPDES Permits Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
ENF	Enforcement Action Listing
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
WDS	Waste Discharge System
Financial Assurance	Financial Assurance Information Listing
MWMP	Medical Waste Management Program Listing
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
2020 COR ACTION	2020 Corrective Action Program List
PRP	Potentially Responsible Parties
COAL ASH DOE	Steam-Electric Plant Operation Data

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LUST	Recovered Government Archive Leaking Underground Storage Tank
RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREEWAY AUTO WRECKERS	*1041 EAST 6TH STREET*	*NNE 0 - 1/8 (0.121 mi.)*	*J47*	*58*

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EECO	*1441 EAST CHESTNUT AVEN*	*ESE 1/2 - 1 (0.577 mi.)*	*AM188*	*270*

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/09/2014 has revealed that there are 30 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MADISON MATERIALS	*1035 E 4TH ST*	*N 0 - 1/8 (0.003 mi.)*	*A4*	*9*
TREESWEET PRODUCTS CO	*1044 E 4TH ST*	*NE 0 - 1/8 (0.052 mi.)*	*C13*	*19*
CONNELLY MACH	*420 TERMINAL ST*	*NE 0 - 1/8 (0.055 mi.)*	*C17*	*25*
STON & VAN DYKE	*1101 E 3RD ST*	*E 0 - 1/8 (0.091 mi.)*	*G31*	*36*
FORD TRUCK PARTS	*518 N POINSETTA*	*NW 0 - 1/8 (0.108 mi.)*	*K40*	*45*
JOHNSON ENTERPRISES	*1114 E 4TH ST*	*ENE 0 - 1/8 (0.113 mi.)*	*L42*	*48*
LESTER FOWLER RECEIVERSHIP	*1041 E 6TH ST*	*NNE 0 - 1/8 (0.121 mi.)*	*J46*	*56*
LIEBERT SCRAP METALS INC	*1051 E SIXTH ST*	*NNE 1/8 - 1/4 (0.136 mi.)*	*J60*	*67*
S G ROOFING	*1000 E 6TH ST*	*NNW 1/8 - 1/4 (0.144 mi.)*	*K66*	*80*

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GOLDEN WEST CIRCUITS INC	*624 N POINSETTIA ST*	*NNW 1/8 - 1/4 (0.224 mi.)*	*Y134*	*139*

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOES TRANSMISSION	*117 N STANDARD UNIT C*	*SSW 0 - 1/8 (0.041 mi.)*	*B9*	*15*
BERLIN TIRE CTR	*115 N STANDARD*	*SSW 0 - 1/8 (0.042 mi.)*	*B10*	*16*
A B RADIATOR SHOP	*1201 E 1ST ST*	*SE 0 - 1/8 (0.068 mi.)*	*E19*	*27*
CARQUEST OF SANTA ANA NO 7913	*920 E FIRST ST*	*SW 0 - 1/8 (0.086 mi.)*	*28*	*33*
TOM'S TRUCK CENTER INC	*936 E 3RD ST*	*W 0 - 1/8 (0.087 mi.)*	*H29*	*34*
RICE AUTO PARTS	*905 E 2ND ST*	*WSW 0 - 1/8 (0.114 mi.)*	*F45*	*55*
FEDERAL DISPOSAL SERVICES	*922 E 4TH ST*	*WNW 0 - 1/8 (0.121 mi.)*	*I49*	*61*
BEN WARNER TOWING	*818 E WALNUT*	*SSW 1/8 - 1/4 (0.141 mi.)*	*N62*	*74*
HEMINGWAYS GARAGE	*829 E FIRST*	*WSW 1/8 - 1/4 (0.153 mi.)*	*O70*	*86*
DIAMOND NEWPORT CORP	*1107 E WALNUT*	*SSE 1/8 - 1/4 (0.159 mi.)*	*M73*	*89*
JAPANESE MTRS	*826 E 1ST ST*	*WSW 1/8 - 1/4 (0.160 mi.)*	*O77*	*93*
M G AND T TRANSMISSION	*1202 E FIRST ST UNIT C*	*SE 1/8 - 1/4 (0.160 mi.)*	*Q79*	*95*
1ST AUTO BODY	*806 E 1ST ST*	*WSW 1/8 - 1/4 (0.174 mi.)*	*O97*	*109*
HEMINGWAYS GARAGE	*818 E FOURTH ST*	*WNW 1/8 - 1/4 (0.191 mi.)*	*U112*	*120*
PRESTIGE AUTO BODY & PAINT	*809 3 4TH ST*	*WNW 1/8 - 1/4 (0.192 mi.)*	*U113*	*123*
MENCHACA AUTO RPR	*120 N LACY*	*WSW 1/8 - 1/4 (0.216 mi.)*	*V125*	*130*
PRECISION HONING SPECIALISTS	*1241 E CHESTNUT AVE*	*SSE 1/8 - 1/4 (0.241 mi.)*	*AB146*	*161*
NIPPON MACHINE ENGINEERING INC	*1202 E WALNUT UNIT J*	*SSE 1/8 - 1/4 (0.241 mi.)*	*AB147*	*163*
TANAKA AUTO RPR	*1208 E WALNUT*	*SSE 1/8 - 1/4 (0.241 mi.)*	*AB148*	*164*
J AND J AXLE SUPPLY	*1208 E WALNUT STE H*	*SSE 1/8 - 1/4 (0.241 mi.)*	*AB149*	*166*

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
B & F INDUSTRIES INC	*1014 EAST PINE STREET*	*S 1/8 - 1/4 (0.190 mi.)*	*W110*	*118*

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 02/02/2015 has revealed that there are

EXECUTIVE SUMMARY

20 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FREEWAY AUTO WRECKERS Status: Inactive - Needs Evaluation	***1041 EAST 6TH STREET***	***NNE 0 - 1/8 (0.121 mi.)***	***J47***	***58***
SANTIAGO AVENUE AND 6TH STREET Status: Inactive - Needs Evaluation	***609 POINSETTIA STREET***	***NNW 1/8 - 1/4 (0.178 mi.)***	***T102***	***113***
REMINGTON ELEMENTARY REDEVELOP Status: Inactive - Needs Evaluation	***1325 EAST FOURTH STREET***	***ENE 1/8 - 1/4 (0.249 mi.)***	***AA152***	***169***
ORANGE COUNTY REGISTER THE Status: Inactive - Needs Evaluation	***625 N. GRAND AVENUE***	***NE 1/4 - 1/2 (0.327 mi.)***	***AE160***	***185***
POINSETTIA/CIVIC CENTER Status: Inactive - Needs Evaluation	***931 POINSETTIA STREET***	***NNW 1/2 - 1 (0.509 mi.)***	***184***	***262***
DAVIS ELEMENTARY SCHOOL EXPANS Status: Inactive - Needs Evaluation	***605/611/615 EAST WASHIN***	***NNW 1/2 - 1 (0.620 mi.)***	***190***	***289***
COMPAK FOODS Status: Inactive - Needs Evaluation		E 1/2 - 1 (0.728 mi.)	195	301

Lower Elevation	Address	Direction / Distance	Map ID	Page
RICE AUTO PARTS(FORMER) Status: Refer: 1248 Local Agency	***905 EAST 2ND STREET***	***WSW 0 - 1/8 (0.114 mi.)***	***F44***	***52***
SO CAL GAS/SANTA ANA I (MINNIE Status: Active	***NE CORNER OF MINNIE ST***	***SSE 1/8 - 1/4 (0.138 mi.)***	***M61***	***68***
EECOINC Status: Active Status: Refer: RCRA	***1441 E CHESTNUT AVE***	***SE 1/4 - 1/2 (0.438 mi.)***	***175***	***240***
GRANT ELEMENTARY SCHOOL Status: Inactive - Needs Evaluation	***333 EAST WALNUT STREET***	***WSW 1/4 - 1/2 (0.439 mi.)***	***176***	***245***
ELEMENTARY SCHOOL NO. 5 Status: Inactive - Needs Evaluation	***FIRST STREET/TOWNSEND S***	***ESE 1/2 - 1 (0.553 mi.)***	***AM185***	***265***
NORTH AM AVIATION Status: Inactive - Needs Evaluation		W 1/2 - 1 (0.560 mi.)	AN186	268
SANTA ANA AIR NG RREL Status: Inactive - Needs Evaluation		W 1/2 - 1 (0.560 mi.)	AN187	269
E. CHESTNUT SA PROPERTY Status: Refer: 1248 Local Agency	***1538 E. CHESTNUT AVE***	***ESE 1/2 - 1 (0.590 mi.)***	***189***	***288***
EDISON/SANTA ANA II (SYCAMORE Status: Active	***NW. OF 2ND ST. AND SYCA***	***W 1/2 - 1 (0.622 mi.)***	***191***	***292***
G AND H RADIATOR SERVICE Status: Refer: Other Agency	***120 MAIN***	***WSW 1/2 - 1 (0.624 mi.)***	***192***	***299***
MAIN PHOTO SERVICE, INC. Status: Inactive - Needs Evaluation	827 S. MAIN STREET	SW 1/2 - 1 (0.844 mi.)	196	302
MARKLAND MANUFACTURING, INC. Status: Inactive - Needs Evaluation	***1111 EAST MCFADDEN AVEN***	***S 1/2 - 1 (0.877 mi.)***	***197***	***303***
BREAK-FREE, INC. Status: Refer: 1248 Local Agency	***1035 S. LINWOOD AVENUE***	***SSE 1/2 - 1 (0.879 mi.)***	***198***	***313***

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, and dated 02/16/2015 has revealed that there are 2 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MADISON MATERIALS, INC.	1035 EAST FOURTH STREET	N 0 - 1/8 (0.003 mi.)	A3	8
MADISON MATERIALS, INC.	1035 E. FOURTH ST.	N 0 - 1/8 (0.003 mi.)	A5	13

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 01/20/2015 has revealed that there are 38 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BARRE ENGINEERING & CONSTRUCTI	1000 6TH ST	NNW 1/8 - 1/4 (0.144 mi.)	K65	79
S G ROOFING	***1000 E 6TH ST***	***NNW 1/8 - 1/4 (0.144 mi.)***	***K66***	***80***
Status: Completed - Case Closed				
AMERICAN DEMOLITION	***620 N POINSETTIA ST***	***NNW 1/8 - 1/4 (0.213 mi.)***	***Y124***	***129***
Status: Completed - Case Closed				
THRIFTY OIL #377/ ARCO #7741	324 GRAND AVE	E 1/8 - 1/4 (0.223 mi.)	AA129	134
UNOCAL #5598	315 N. GRAND AVE	E 1/8 - 1/4 (0.223 mi.)	AA133	138
G & M OIL #49	***401 GRAND AVE***	***ENE 1/8 - 1/4 (0.236 mi.)***	***143***	***146***
Status: Completed - Case Closed				
UNOCAL #5598	315 N N. GRAND AVE	E 1/8 - 1/4 (0.241 mi.)	AA150	168
Status: Completed - Case Closed				
ORANGE COUNTY FRUIT STREET SHO	***1102 E FRUIT ST***	***N 1/4 - 1/2 (0.304 mi.)***	***AC153***	***172***
FRUIT STREET FUELING STATION	1102 FRUIT ST	N 1/4 - 1/2 (0.304 mi.)	AC154	176
FRUIT STREET FUELING STATION	***1102 E FRUIT ST***	***N 1/4 - 1/2 (0.304 mi.)***	***AC156***	***178***
Status: Completed - Case Closed				
ORANGE COUNTY REGISTER	***625***	***NE 1/4 - 1/2 (0.327 mi.)***	***AE159***	***184***
ORANGE COUNTY REGISTER THE	***625 N. GRAND AVENUE***	***NE 1/4 - 1/2 (0.327 mi.)***	***AE160***	***185***
Status: Completed - Case Closed				
SANTA ANA DIESEL	***730 POINSETTIA ST***	***NNW 1/4 - 1/2 (0.340 mi.)***	***AF161***	***192***
SANTA ANA DIESEL	730 N POINSETTIA ST	NNW 1/4 - 1/2 (0.340 mi.)	AF162	194
Status: Completed - Case Closed				
REASON BUICK (FORMER)	***839 N GRAND AVE***	***NE 1/4 - 1/2 (0.385 mi.)***	***AG165***	***202***
Status: Completed - Case Closed				
REASON BUICK (FORMER)	***839***	***NE 1/4 - 1/2 (0.385 mi.)***	***AG166***	***204***
JASCO CHEMICAL	***1008 N FULLER ST***	***N 1/4 - 1/2 (0.387 mi.)***	***AH167***	***205***
Status: Completed - Case Closed				
JASCO CHEM CORP., INC	***1008 FULLER ST***	***N 1/4 - 1/2 (0.388 mi.)***	***AH168***	***209***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRAND CAR WASH	***930 N GRAND AVE***	***NNE 1/4 - 1/2 (0.431 mi.)***	***AI169***	***216***
Status: Completed - Case Closed				
ROBERTS HOLIDAY LINES	***930 POINSETTIA ST***	***NNE 1/4 - 1/2 (0.431 mi.)***	***AI170***	***225***
Status: Completed - Case Closed				
REASON BUICK	***909 N GRAND***	***NNE 1/4 - 1/2 (0.435 mi.)***	***AI171***	***232***
Status: Completed - Case Closed				
REASON BUICK	***909***	***NNE 1/4 - 1/2 (0.435 mi.)***	***AI172***	***236***
HPL MECHANICAL	***1041 LOGAN ST***	***N 1/4 - 1/2 (0.452 mi.)***	***AK177***	***248***
HPL MECHANICAL	1041 N LOGAN	N 1/4 - 1/2 (0.452 mi.)	AK178	250
Status: Completed - Case Closed				
REED THOMAS	***1205 SANTIAGO ST***	***NNW 1/4 - 1/2 (0.492 mi.)***	***AL181***	***258***
REED THOMAS CO., INC.	***1025 N SANTIAGO***	***NNW 1/4 - 1/2 (0.492 mi.)***	***AL182***	***260***
Status: Open - Site Assessment				

Lower Elevation	Address	Direction / Distance	Map ID	Page
FORMER RICE AUTO PARTS	***905 E 2ND ST***	***WSW 0 - 1/8 (0.114 mi.)***	***F43***	***50***
Status: Completed - Case Closed				
RICE AUTO PARTS(FORMER)	***905 EAST 2ND STREET***	***WSW 0 - 1/8 (0.114 mi.)***	***F44***	***52***
TONY K SHOBEIRI	***1222 E 1ST ST***	***ESE 1/8 - 1/4 (0.173 mi.)***	***Q94***	***103***
Status: Completed - Case Closed				
ARCO #6085	1222 1ST ST	ESE 1/8 - 1/4 (0.173 mi.)	Q95	107
MCCAIN TRUST/ORCO BLOCK CO INC	MAIN ST	WNW 1/8 - 1/4 (0.239 mi.)	U145	160
Status: Completed - Case Closed				
GILBERT AND STEARNS	***609 E 4TH ST***	***W 1/4 - 1/2 (0.324 mi.)***	***AD157***	***181***
Status: Completed - Case Closed				
GILBERT AND STEARNS	***609***	***W 1/4 - 1/2 (0.327 mi.)***	***AD158***	***183***
HONEYWELL	***514***	***W 1/4 - 1/2 (0.341 mi.)***	***163***	***195***
THRIFTY OIL #377/ ARCO #7741	324 S GRAND AVE	SE 1/4 - 1/2 (0.370 mi.)	164	196
Status: Completed - Case Closed				
TALIN TIRE INC.	***409 04TH***	***W 1/4 - 1/2 (0.437 mi.)***	***AJ173***	***237***
TALIN TIRE INC.	***409 E 4TH ST***	***W 1/4 - 1/2 (0.437 mi.)***	***AJ174***	***238***
Status: Completed - Case Closed				
MAAS PROPERTY	630 HATHAWAY STREET	SSE 1/4 - 1/2 (0.486 mi.)	180	254
Status: Completed - Case Closed				

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 01/20/2015 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EMERSON ELECTRONICS	300 S STANDARD STREET	S 1/8 - 1/4 (0.190 mi.)	109	118

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 01/20/2015 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERICAN CONCRETE CUTTING, INC	620 POINSETTIA ST	NNW 1/8 - 1/4 (0.213 mi.)	Y123	128
G & M OIL CO., INC. 49	401 N. GRAND	ENE 1/8 - 1/4 (0.227 mi.)	AA135	142
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
ARCO 6085	1222 E. 1ST ST.	ESE 1/8 - 1/4 (0.173 mi.)	Q93	103

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1035 E 4TH ST	N 0 - 1/8 (0.003 mi.)	A2	8
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
Not reported	818 E WALNUT ST	SSW 1/8 - 1/4 (0.141 mi.)	N63	78

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 02/02/2015 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SO CAL GAS/SANTA ANA I (MINNIE	***NE CORNER OF MINNIE ST***	***SSE 1/8 - 1/4 (0.138 mi.)***	***M61***	***68***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 12/15/2014 has revealed that there are 4

SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BRUCE METAL AND SALVAGE INC	***920 E 6TH ST***	***NW 1/8 - 1/4 (0.173 mi.)***	***T96***	***108***
SA RECYCLING	***1016 N SANTIAGO ST***	***NNW 1/4 - 1/2 (0.455 mi.)***	***AL179***	***252***
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
MEN CAL RECYCLING	***941 E 4TH ST***	***NW 0 - 1/8 (0.072 mi.)***	***D21***	***29***
GLOBAL METAL RECYCLING	***1011 E PINE ST***	***S 1/8 - 1/4 (0.188 mi.)***	***W108***	***117***

Local Lists of Hazardous waste / Contaminated Sites

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category. depending on the level of threat to public health and safety or the. environment they pose.

A review of the SCH list, as provided by EDR, and dated 02/02/2015 has revealed that there are 2 SCH sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANTIAGO AVENUE AND 6TH STREET	***609 POINSETTIA STREET***	***NNW 1/8 - 1/4 (0.178 mi.)***	***T102***	***113***
REMINGTON ELEMENTARY REDEVELOP	***1325 EAST FOURTH STREET***	***ENE 1/8 - 1/4 (0.249 mi.)***	***AA152***	***169***

Local Lists of Registered Storage Tanks

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 5 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VITEC INC.	1043 E 004TH ST	NE 0 - 1/8 (0.027 mi.)	A8	15
ANGELICA HEALTHCARE SERVICES G	1111 E 004TH ST	NE 0 - 1/8 (0.085 mi.)	C27	32
G.W. MAINTENANCE, INC.	1061 E 006TH ST	NNE 1/8 - 1/4 (0.174 mi.)	P99	112
UNOCAL CORPORATION	***315 N GRAND AVE***	***E 1/8 - 1/4 (0.223 mi.)***	***AA130***	***135***
FAST GAS	***401 N GRAND AVE***	***ENE 1/8 - 1/4 (0.227 mi.)***	***AA137***	***143***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 11 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VITEC INC.	***1043 E 4TH ST***	***NE 0 - 1/8 (0.027 mi.)***	***A7***	***14***
ANGELICA HEALTHCARE SERVICES G	***1111 E 4TH ST***	***ENE 0 - 1/8 (0.125 mi.)***	***L53***	***64***
G.W. MAINTENANCE, INC.	***1061 E 6TH ST***	***NNE 1/8 - 1/4 (0.145 mi.)***	***J67***	***83***
G.W. MAINTENANCE, INC	1102 E 6TH ST	NE 1/8 - 1/4 (0.159 mi.)	P74	91
UNION OIL SERVICE STATION #559	315 N GRAND AVE	E 1/8 - 1/4 (0.223 mi.)	AA131	137

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STATION #5598	315 N GRAND AVE	E 1/8 - 1/4 (0.223 mi.)	AA132	137
STATION 033	401 N GRAND AVE	ENE 1/8 - 1/4 (0.227 mi.)	AA136	142

Lower Elevation	Address	Direction / Distance	Map ID	Page
ECS TRUCKING	*1016 E 1ST ST*	*S 0 - 1/8 (0.055 mi.)*	*B14*	*22*
TOM'S TRUCK CENTER	*1008 E 4TH ST*	*NW 0 - 1/8 (0.055 mi.)*	*D16*	*24*
94902	*1221 E 1ST ST*	*SE 0 - 1/8 (0.096 mi.)*	*E33*	*38*
TONY K SHOBEIRI	*1222 E 1ST ST*	*ESE 1/8 - 1/4 (0.173 mi.)*	*Q94*	*103*

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 11 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VITEC INC.	*1043 E 4TH ST*	*NE 0 - 1/8 (0.027 mi.)*	*A7*	*14*
ANGELICA HEALTHCARE SERVICES G	*1111 E 4TH ST*	*ENE 0 - 1/8 (0.125 mi.)*	*L53*	*64*
S G ROOFING	*1000 E 6TH ST*	*NNW 1/8 - 1/4 (0.144 mi.)*	*K66*	*80*
G.W. MAINTENANCE, INC.	*1061 E 6TH ST*	*NNE 1/8 - 1/4 (0.145 mi.)*	*J67*	*83*
AMERICAN CONCRETE CUTTING INC	*620 POINSETTIA*	*NNW 1/8 - 1/4 (0.213 mi.)*	*Y122*	*127*
UNOCAL CORPORATION	*315 N GRAND AVE*	*E 1/8 - 1/4 (0.223 mi.)*	*AA130*	*135*
FAST GAS	*401 N GRAND AVE*	*ENE 1/8 - 1/4 (0.227 mi.)*	*AA137*	*143*

Lower Elevation	Address	Direction / Distance	Map ID	Page
ECS TRUCKING	*1016 E 1ST ST*	*S 0 - 1/8 (0.055 mi.)*	*B14*	*22*
TOM'S TRUCK CENTER	*1008 E 4TH ST*	*NW 0 - 1/8 (0.055 mi.)*	*D16*	*24*
94902	*1221 E 1ST ST*	*SE 0 - 1/8 (0.096 mi.)*	*E33*	*38*
TONY K SHOBEIRI	*1222 E 1ST ST*	*ESE 1/8 - 1/4 (0.173 mi.)*	*Q94*	*103*

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GEORGE'S RECYCLING CTR	*930 E WALNUT STREET*	*S 0 - 1/8 (0.123 mi.)*	*50*	*63*

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PHIL'S CUSTOM PLATING	1214 WEST 1ST STREET	SE 1/8 - 1/4 (0.168 mi.)	Q84	99

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 15 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO - AM/PM MINIMARKET #	1222	ESE 1/8 - 1/4 (0.219 mi.)	128	134
G W MAINTENANCE, INC	***1102 E 6TH ST***	***N 1/4 - 1/2 (0.304 mi.)***	***AC155***	***177***
ORANGE COUNTY REGISTER	***625***	***NE 1/4 - 1/2 (0.327 mi.)***	***AE159***	***184***
SANTA ANA DIESEL	***730 POINSETTIA ST***	***NNW 1/4 - 1/2 (0.340 mi.)***	***AF161***	***192***
REASON BUICK (FORMER)	***839***	***NE 1/4 - 1/2 (0.385 mi.)***	***AG166***	***204***
JASCO CHEM CORP., INC	***1008 FULLER ST***	***N 1/4 - 1/2 (0.388 mi.)***	***AH168***	***209***
ROBERTS HOLIDAY LINES	***930 POINSETTIA ST***	***NNE 1/4 - 1/2 (0.431 mi.)***	***AI170***	***225***
REASON BUICK	***909***	***NNE 1/4 - 1/2 (0.435 mi.)***	***AI172***	***236***
HPL MECHANICAL	***1041 LOGAN ST***	***N 1/4 - 1/2 (0.452 mi.)***	***AK177***	***248***
REED THOMAS	***1205 SANTIAGO ST***	***NNW 1/4 - 1/2 (0.492 mi.)***	***AL181***	***258***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SO CAL GAS/SANTA ANA I (M	NE CORNER OF MINNIE ST	S 0 - 1/8 (0.068 mi.)	B18	26
RICE AUTO PARTS(FORMER)	***905 EAST 2ND STREET***	***WSW 0 - 1/8 (0.114 mi.)***	***F44***	***52***
GILBERT AND STEARNS	***609***	***W 1/4 - 1/2 (0.327 mi.)***	***AD158***	***183***
HONEYWELL	***514***	***W 1/4 - 1/2 (0.341 mi.)***	***163***	***195***
TALIN TIRE INC.	***409 04TH***	***W 1/4 - 1/2 (0.437 mi.)***	***AJ173***	***237***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 3 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERICAN CONCRETE CUTTING INC	***620 POINSETTIA***	***NNW 1/8 - 1/4 (0.213 mi.)***	***Y122***	***127***
GSA/ TRANSPORTATION GARAGE	445 CIVIC CENTER DRIVE	NW 1/2 - 1 (0.504 mi.)	183	262

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	224 SOUTH MAIN STREET	WSW 1/2 - 1 (0.641 mi.)	193	300

HWT: A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

A review of the HWT list, as provided by EDR, and dated 01/12/2015 has revealed that there is 1 HWT site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THERMO FLUIDS INC	***910 E. 4TH ST***	***WNW 0 - 1/8 (0.100 mi.)***	***H36***	***41***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 02/23/2015 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EECO	***1441 EAST CHESTNUT AVEN***	***ESE 1/2 - 1 (0.577 mi.)***	***AM188***	***270***

PROC: A listing of certified processors.

A review of the PROC list, as provided by EDR, and dated 12/15/2014 has revealed that there is 1 PROC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MEN CAL RECYCLING	***941 E 4TH ST***	***NW 0 - 1/8 (0.072 mi.)***	***D21***	***29***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SO CAL GAS/SANTA ANA (MINNIE S	NEC OF MINNIE AND E WAL	SSE 0 - 1/8 (0.097 mi.)	35	41
EDISON/SANTA ANA MGP	NW OF 2ND ST AND SYCAMO	W 1/2 - 1 (0.704 mi.)	194	301

EXECUTIVE SUMMARY

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 59 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEPOT GARAGE	1023 E 4TH ST	NNW 0 - 1/8 (0.012 mi.)	A6	14
WEBB D V	1045 E 4TH REAR	NE 0 - 1/8 (0.044 mi.)	C12	19
CURTIS C C	226 SANTA FE ST	ESE 0 - 1/8 (0.082 mi.)	G25	32
Not reported	1102 E 2ND ST	ESE 0 - 1/8 (0.084 mi.)	E26	32
Not reported	1061 E 4TH ST	ENE 0 - 1/8 (0.090 mi.)	C30	36
BUTLER EARL	1102 E 4TH ST	ENE 0 - 1/8 (0.095 mi.)	C32	38
Not reported	510 TERMINAL ST	NNE 0 - 1/8 (0.106 mi.)	J38	44
Not reported	510 N TERMINAL ST	NNE 0 - 1/8 (0.106 mi.)	J39	44
Not reported	1110 E 4TH ST	ENE 0 - 1/8 (0.110 mi.)	L41	47
Not reported	1041 E 6TH ST	NNE 0 - 1/8 (0.121 mi.)	J48	61
Not reported	1045 E 6TH ST	NNE 1/8 - 1/4 (0.130 mi.)	J57	66
Not reported	1203 E 3RD ST	E 1/8 - 1/4 (0.155 mi.)	71	89
Not reported	1110 E 6TH ST	NE 1/8 - 1/4 (0.162 mi.)	P82	97
Not reported	1204 E 4TH ST	ENE 1/8 - 1/4 (0.167 mi.)	R83	98
HARKENDORFF C W	1222 E 4TH ST	ENE 1/8 - 1/4 (0.177 mi.)	R100	112
Not reported	1222 E 4TH ST	ENE 1/8 - 1/4 (0.178 mi.)	R103	115
MOREHOUSE V D	1302 E 4TH ST	ENE 1/8 - 1/4 (0.228 mi.)	AA138	145
COPE U S	1302 E 4TH ST	ENE 1/8 - 1/4 (0.228 mi.)	AA139	145
EHRLER S PHIL SERVICE STATION	1302 E 4TH ST	ENE 1/8 - 1/4 (0.230 mi.)	AA140	146

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	115 N STANDARD AVE	SSW 0 - 1/8 (0.042 mi.)	B11	18
Not reported	1016 E 1ST ST	S 0 - 1/8 (0.055 mi.)	B15	24
Not reported	1201 E 1ST ST	SE 0 - 1/8 (0.068 mi.)	E20	29
Not reported	1205 E 1ST ST	SE 0 - 1/8 (0.074 mi.)	E22	31
Not reported	936 E 2ND ST	WSW 0 - 1/8 (0.078 mi.)	F23	31
RIGGAN H B	1221 E 1ST ST	SE 0 - 1/8 (0.096 mi.)	E34	41
MCCUNE R O	919 W 4TH ST	WNW 0 - 1/8 (0.103 mi.)	I37	44
Not reported	818 E WALNUT ST	SSW 1/8 - 1/4 (0.141 mi.)	N64	78
VAN GORKUM I C	834 E 1ST ST	WSW 1/8 - 1/4 (0.153 mi.)	O68	85
Not reported	829 E 1ST ST	WSW 1/8 - 1/4 (0.153 mi.)	O69	85
Not reported	1105 E WALNUT ST	SSE 1/8 - 1/4 (0.159 mi.)	M72	89
GRAND CENTRAL GARAGE	809 E 1ST ST	WSW 1/8 - 1/4 (0.160 mi.)	O75	91
Not reported	826 E 1ST ST	WSW 1/8 - 1/4 (0.160 mi.)	O76	91
Not reported	1202 E 1ST ST	SE 1/8 - 1/4 (0.160 mi.)	Q78	94
Not reported	1106 E WALNUT ST	SSE 1/8 - 1/4 (0.161 mi.)	M80	97
Not reported	1118 E WALNUT ST	SSE 1/8 - 1/4 (0.162 mi.)	M81	97
Not reported	111 S HATHAWAY ST	SE 1/8 - 1/4 (0.169 mi.)	Q85	99
Not reported	816 E 1ST ST	WSW 1/8 - 1/4 (0.169 mi.)	O86	100
ADRAIN AL	902 W 5TH ST	NW 1/8 - 1/4 (0.171 mi.)	S88	101
PACE & HALE	902 W 5TH ST	NW 1/8 - 1/4 (0.172 mi.)	S89	102
Not reported	1222 E 1ST ST	ESE 1/8 - 1/4 (0.173 mi.)	Q92	102
Not reported	806 E 1ST ST	WSW 1/8 - 1/4 (0.174 mi.)	O98	111

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	115 S HALLADAY ST	SW 1/8 - 1/4 (0.177 mi.)	O101	112
MAIZE A W	825 E 4TH ST	WNW 1/8 - 1/4 (0.184 mi.)	U104	115
DECKER J W	825 E 4TH ST	WNW 1/8 - 1/4 (0.184 mi.)	U105	116
STANDARD OIL CO	825 E 4TH ST	WNW 1/8 - 1/4 (0.184 mi.)	U106	116
Not reported	829 E 2ND ST	WSW 1/8 - 1/4 (0.185 mi.)	V107	116
Not reported	818 E 4TH ST	WNW 1/8 - 1/4 (0.191 mi.)	U111	120
BALLARD S SERVICE STATION	817 E 4TH ST	WNW 1/8 - 1/4 (0.195 mi.)	U114	125
SPECK A R	817 E 4TH ST	WNW 1/8 - 1/4 (0.195 mi.)	U115	125
KITTELSEN A O	817 E 4TH ST	WNW 1/8 - 1/4 (0.195 mi.)	U116	125
LEIHY O A TUSTIN MORRISON F H	809 E 4TH ST	WNW 1/8 - 1/4 (0.203 mi.)	U117	125
SQUARE DEAL AUTO REPAIR SHOP	809 E 4TH ST	WNW 1/8 - 1/4 (0.205 mi.)	U118	125
RHINES EUGENE	809 E 4TH ST	WNW 1/8 - 1/4 (0.205 mi.)	U119	126
Not reported	1202 E WALNUT ST	SE 1/8 - 1/4 (0.213 mi.)	X120	126
Not reported	120 N LACY ST	WSW 1/8 - 1/4 (0.216 mi.)	V126	133
STATON A LEE	718 E 1ST ST	WSW 1/8 - 1/4 (0.217 mi.)	Z127	134
Not reported	1208 E WALNUT ST	SE 1/8 - 1/4 (0.232 mi.)	X141	146
WIEBE A C	819 E 5TH REAR	WNW 1/8 - 1/4 (0.236 mi.)	142	146
HAMIL J C	710 E 1ST ST	WSW 1/8 - 1/4 (0.243 mi.)	Z151	169

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 13 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DE LUXE CLEANERS	211 SANTA FE ST	ESE 0 - 1/8 (0.081 mi.)	G24	31
SANTA ANA LAUNDRY	1111 E 4TH ST	ENE 0 - 1/8 (0.124 mi.)	L51	64
SANTA ANA LAUNDRY	1111 E 4TH ST	ENE 0 - 1/8 (0.125 mi.)	L52	64
CRESCENT CLEANING CO	1113 E 4TH ST	ENE 1/8 - 1/4 (0.127 mi.)	L54	66
CRESCENT CLEANERS	1113 E 4TH ST	ENE 1/8 - 1/4 (0.127 mi.)	L55	66
CRESCENT CLEANERS	1113 E 4TH ST	ENE 1/8 - 1/4 (0.128 mi.)	L56	66
OLSON E J	1315 W 4TH ST	ENE 1/8 - 1/4 (0.239 mi.)	AA144	160

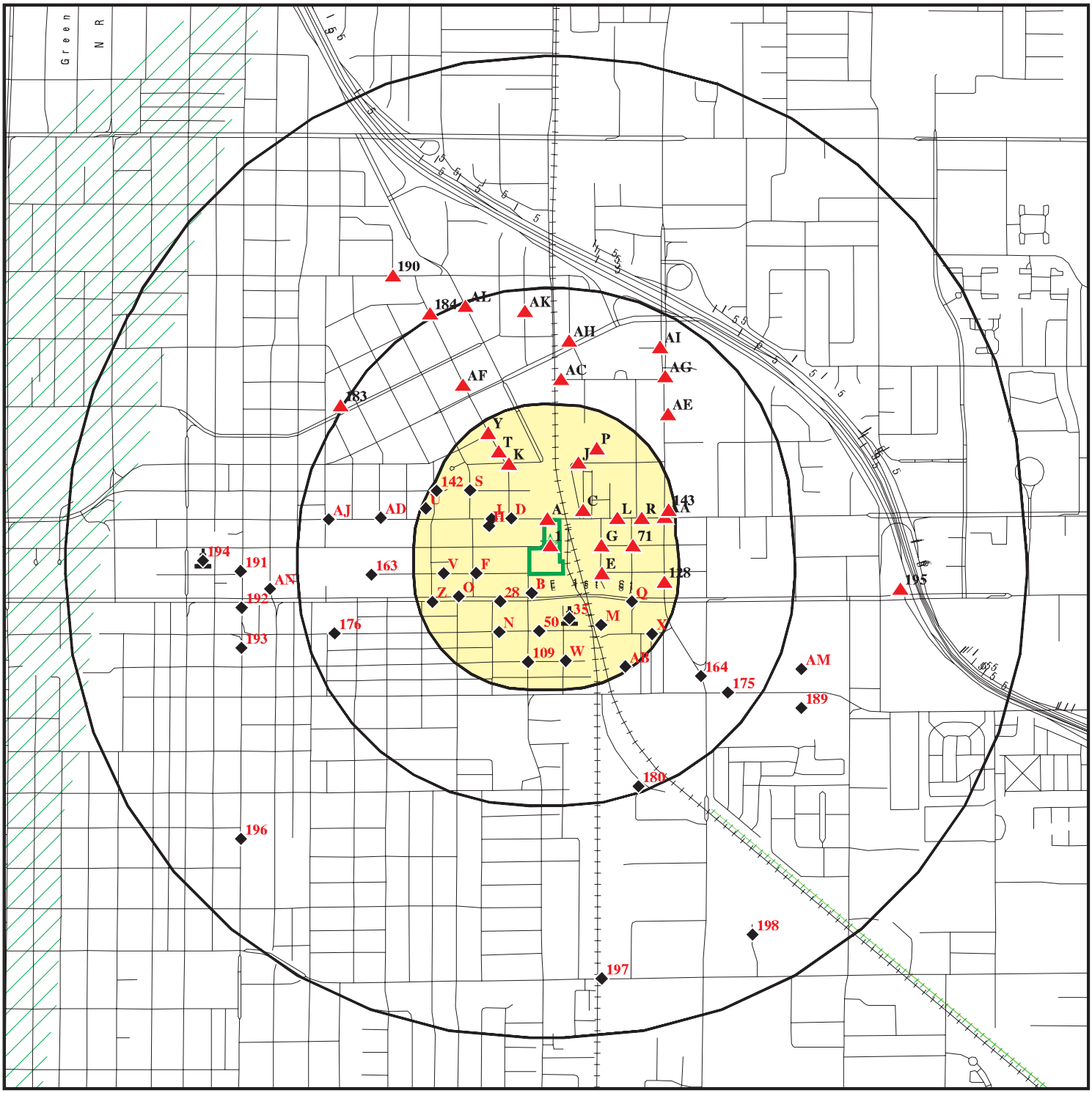
Lower Elevation	Address	Direction / Distance	Map ID	Page
RAY A E	904 W 4TH ST	WNW 1/8 - 1/4 (0.135 mi.)	I58	67
SUNSET DYE WORKS	904 W 4TH ST	WNW 1/8 - 1/4 (0.135 mi.)	I59	67
MODEL LAUNDRY	901 E 5TH ST	NW 1/8 - 1/4 (0.170 mi.)	S87	101
MODEL LAUNDRY CO	901 E 5TH ST	NW 1/8 - 1/4 (0.173 mi.)	S90	102
MODEL LAUNDRY	901 E 5TH ST	NW 1/8 - 1/4 (0.173 mi.)	S91	102
Not reported	1202 E WALNUT ST	SE 1/8 - 1/4 (0.213 mi.)	X121	126

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

Site Name	Database(s)
SANTA ANA VALLEY IRRIGATION DUMP #	SWF/LF
IN-N-OUT (NORTHEAST CORNER 17TH AN	VCP, ENVIROSTOR

OVERVIEW MAP - 4228390.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Extra Space Storage #1536	CLIENT:	Vertex Engineering Services
ADDRESS:	1030 East 4th Street Santa Ana CA 92701	CONTACT:	Samir Raman
LAT/LONG:	33.7472 / -117.8561	INQUIRY #:	4228390.2s
		DATE:	March 09, 2015 4:17 pm

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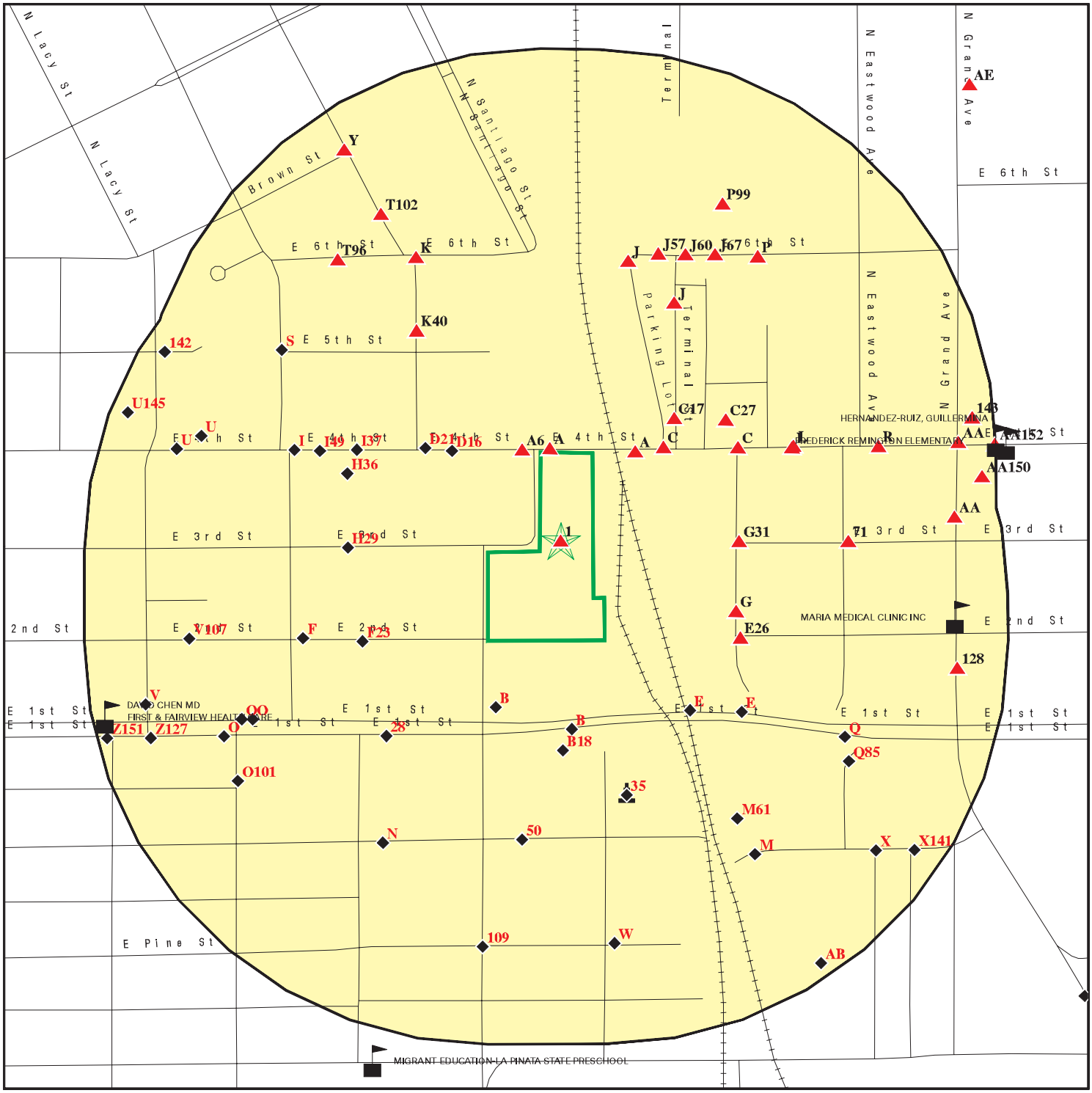
DETAIL MAP - 4228390.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Extra Space Storage #1536	CLIENT: Vertex Engineering Services
ADDRESS: 1030 East 4th Street Santa Ana CA 92701	CONTACT: Samir Raman
LAT/LONG: 33.7472 / -117.8561	INQUIRY #: 4228390.2s DATE: March 09, 2015 4:19 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		1	0	0	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		14	16	NR	NR	NR	30
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		2	3	3	12	NR	20
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		2	0	0	NR	NR	2
State and tribal leaking storage tank lists								
LUST	0.500		2	10	26	NR	NR	38

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SLIC	0.500		0	1	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		0	3	NR	NR	NR	3
AST	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	1	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		1	2	1	NR	NR	4
HAULERS	TP	1	NR	NR	NR	NR	NR	1
INDIAN ODI	0.500		0	0	0	NR	NR	0
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	2	NR	NR	NR	2
Toxic Pits	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		2	3	NR	NR	NR	5
HIST UST	0.250		5	6	NR	NR	NR	11
SWEEPS UST	0.250		5	6	NR	NR	NR	11
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS	TP		NR	NR	NR	NR	NR	0
Orange Co. Industrial Site	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	1	0	0	NR	1
UIC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
HIST CORTESE	0.500		2	1	12	NR	NR	15
CUPA Listings	0.250		0	0	NR	NR	NR	0
Notify 65	1.000		0	1	0	2	NR	3
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
HWT	0.250		1	0	NR	NR	NR	1
HWP	1.000		0	0	0	1	NR	1
WDS	TP		NR	NR	NR	NR	NR	0
PROC	0.500		1	0	0	NR	NR	1
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		1	0	0	1	NR	2
EDR US Hist Auto Stat	0.250		17	42	NR	NR	NR	59
EDR US Hist Cleaners	0.250		3	10	NR	NR	NR	13
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LUST	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
Target
Property
Actual:
131 ft.

ALLIS TIRES — **HAULERS** — **S117227904**
1030 E 4TH ST — **N/A**
SANTA ANA, CA 92701

HAULERS:

Facility ID:	1795784
Facility Phone:	(714) 206-0410
Business Email Address:	Not reported
Contact Person:	Laura Alcazar
Mailing Address:	2221 Caper Tree Dr
Mailing City:	Tustin
Mailing State:	CA
Mailing Zip:	92780-7102
Mailing County:	Orange
Mailing Phone:	Not reported
Waste Tire Permit Summary:	No Permit record for this business.

Detail:

SR#:	75
Current Role:	Generator
Current Role Status:	Small Quantity
Facility ID:	1795784

SR#:	75
Current Role:	Hauler
Current Role Status:	Registered
Facility ID:	1795784

A2
North
< 1/8
0.003 mi.
14 ft.

Relative:
Higher

Actual:
132 ft.

AST — **A100336658**
1035 E 4TH ST — **N/A**
SANTA ANA, CA 92701

Site 1 of 7 in cluster A

AST:

Certified Unified Program Agencies:	Orange
Owner:	MADISON MATERIALS
Total Gallons:	1,320

A3
North
< 1/8
0.003 mi.
14 ft.

Relative:
Higher

Actual:
132 ft.

MADISON MATERIALS, INC. — **SWF/LF** — **S105454009**
1035 EAST FOURTH STREET — **N/A**
SANTA ANA, CA

Site 2 of 7 in cluster A

SWF/LF (SWIS):

Region:	STATE
Facility ID:	30-AB-0386
Lat/Long:	33.7486099 / -117.855
Owner Name:	JBW Enterprises, LLC
Owner Telephone:	7146640159
Owner Address:	Judith H. Ware, President
Owner Address2:	P. O. Box 8294
Owner City,St,Zip:	Newprot Beach, CA 92658
Operational Status:	Active
Operator:	Madison Materials, Inc.
Operator Phone:	7146640159
Operator Address:	Jay Ware, General Manager

MADISON MATERIALS, INC. (Continued) **S105454009**

Operator Address2:	1035 E 4th Street
Operator City,St,Zip:	Santa Ana, CA 92658
Permit Date:	09/27/2009
Permit Status:	Permitted
Permitted Acreage:	2.3
Activity:	Large Volume Transfer/Proc Facility
Regulation Status:	Permitted
Landuse Name:	Industrial,Commercial
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Monthly
Accepted Waste:	Construction/demolition,Green Materials,Inert,Metals
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	30-AB-0386
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	950
Actual Throughput with Units:	Tons/day
Permitted Capacity with Units:	950
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Tons
Lat/Long:	33.7486099 / -117.855

A4 **MADISON MATERIALS** **RCRA-SQG** **1006805477**
North **1035 E 4TH ST** **FINDS** **CAR000128215**
< 1/8 **SANTA ANA, CA 92701** **NPDES**
0.003 mi. **HAZNET**
14 ft. **Site 3 of 7 in cluster A**

Relative:
Higher

Actual:
132 ft.

RCRA-SQG:

Date form received by agency:	09/12/2002
Facility name:	MADISON MATERIALS
Facility address:	1035 E 4TH ST SANTA ANA, CA 927014750
EPA ID:	CAR000128215
Mailing address:	P O BOX 8294 NEWPORT BEACH, CA 926588294
Contact:	JAY WARE
Contact address:	1035 E 4TH ST SANTA ANA, CA 927014750
Contact country:	US
Contact telephone:	(714) 834-0234
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	J B W ENTERPRISES LLC
Owner/operator address:	P O BOX 8294

MADISON MATERIALS (Continued) **1006805477**

NEWPORT BEACH, CA 92658
Owner/operator country: Not reported
Owner/operator telephone: (714) 834-0234
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: F034
Waste name: WASTEWATERS, PROCESS RESIDUALS, PRESERVATIVE DRIPPAGE, AND SPENT FORMULATIONS FROM WOOD PRESERVING PROCESS GENERATED AT PLANTS THAT USE CREOSOTE FORMULATIONS. THIS LISTING DOES NOT INCLUDE K001 BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATER FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL. (NOTE: THE

MADISON MATERIALS (Continued) **1006805477**

LISTING OF WASTEWATERS THAT HAVE NOT COME INTO CONTACT WITH PROCESS CONTAMINANTS IS STAYED ADMINISTRATIVELY. THE STAY WILL REMAIN IN EFFECT UNTIL FURTHER ADMINISTRATIVE ACTION IS TAKEN.)

Waste code: K001
Waste name: BOTTOM SEDIMENT SLUDGE FROM THE TREATMENT OF WASTEWATERS FROM WOOD PRESERVING PROCESSES THAT USE CREOSOTE AND/OR PENTACHLOROPHENOL.

Violation Status: No violations found

FINDS:

Registry ID: 110013306341

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

OSHA ESTABLISHMENT

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	8
Regulatory Measure Id:	440975
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 30I024439
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/03/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Madison Materials Inc
Discharge Address:	PO Box 8294
Discharge City:	Newport Beach
Discharge State:	California
Discharge Zip:	92658

HAZNET:

envid:	1006805477
Year:	2009
GEPAID:	CAR000128215
Contact:	JAY WARE, GENERAL MANAGER
Telephone:	7146640159

MADISON MATERIALS (Continued) **1006805477**

Mailing Name: Not reported
Mailing Address: PO BOX 8294
Mailing City,St,Zip: NEWPORT BEACH, CA 926588294
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Not reported
Tons: 0.125
Facility County: Orange

envid: 1006805477
Year: 2009
GEPAID: CAR000128215
Contact: JAY WARE, GENERAL MANAGER
Telephone: 7146640159
Mailing Name: Not reported
Mailing Address: PO BOX 8294
Mailing City,St,Zip: NEWPORT BEACH, CA 926588294
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Organic liquids (nonsolvents) with halogens
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.22935
Facility County: Orange

envid: 1006805477
Year: 2009
GEPAID: CAR000128215
Contact: JAY WARE, GENERAL MANAGER
Telephone: 7146640159
Mailing Name: Not reported
Mailing Address: PO BOX 8294
Mailing City,St,Zip: NEWPORT BEACH, CA 926588294
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 15.1704
Facility County: Orange

envid: 1006805477
Year: 2009
GEPAID: CAR000128215
Contact: JAY WARE, GENERAL MANAGER
Telephone: 7146640159
Mailing Name: Not reported
Mailing Address: PO BOX 8294
Mailing City,St,Zip: NEWPORT BEACH, CA 926588294
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Other Treatment

MADISON MATERIALS (Continued) **1006805477**

Tons:	15.1704
Facility County:	Orange
envid:	1006805477
Year:	2009
GEPAID:	CAR000128215
Contact:	JAY WARE, GENERAL MANAGER
Telephone:	7146640159
Mailing Name:	Not reported
Mailing Address:	PO BOX 8294
Mailing City,St,Zip:	NEWPORT BEACH, CA 926588294
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	Not reported
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
5 additional CA_HAZNET: record(s) in the EDR Site Report.

A5 **MADISON MATERIALS, INC.** **SWF/LF** **S111075994**
North **1035 E. FOURTH ST.** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.003 mi.
14 ft. **Site 4 of 7 in cluster A**

Relative:
Higher

Actual:
132 ft.

LOS ANGELES CO. LF:

Site ID:	1744
Alt. Address:	N/A
Site Contact:	Not reported
Site Contact Phone:	(714) 664-0159
Site Email:	Not reported
Site Website:	http://www.madisonmaterials.com/
Site Type:	Out-of-County Facility
Site SWIS Number:	30-AB-0386
Beginning Operation Date:	N/A
Disposal Area(Acre):	N/A
Local Enforcement Agency:	County of Orange Health Care Agency
Maximun Depth Fill(Ft):	N/A
Permitted Capacity:	950
Present Use:	Large Volume Transfer/Proc Facility
Remaining Capacity(Million):	N/A
Status:	Active
Waste Accepted:	Construction & Demolition;Green Materials;Inert;Metals;
Hours of Operation:	Monday - Friday 7am to 5pm; Saturdays 7am to 2pm
Area:	N/A

Detail As Of 01/2014:

Operator Name:	Madison Materials, Inc.
Operator Address:	P O Box 8294
Operator City/State/Zip:	Newport Beach, CA 92658
Operator Contact:	Not reported
Operator Telephone:	(714) 664-0159
Operator Email:	Not reported
Owner Name:	Unknown

MADISON MATERIALS, INC. (Continued) **S111075994**

Owner Address: Not reported
Owner City/State/Zip: Not reported
Owner Contact: Not reported
Owner Telephone: Not reported
Owner Email: Not reported

A6 **DEPOT GARAGE** **EDR US Hist Auto Stat** **1009093657**
NNW **1023 E 4TH ST** **N/A**
< 1/8 **SANTAANA, CA**
0.012 mi.
61 ft. **Site 5 of 7 in cluster A**

Relative:
Higher

Actual:
131 ft.

EDR Historical Auto Stations:
Name: DEPOT GARAGE
Year: 1936
Type: AUTO REPAIRING

A7 **VITEC INC.** **HIST UST** **U001578140**
NE **1043 E 4TH ST** **SWEEPS UST** **N/A**
< 1/8 **SANTA ANA, CA 92702**
0.027 mi.
140 ft. **Site 6 of 7 in cluster A**

Relative:
Higher

Actual:
133 ft.

HIST UST:
Region: STATE
Facility ID: 00000024905
Facility Type: Other
Other Type: PLASTICS CPD.
Contact Name: R. PLATT/D. GELFAND
Telephone: 7145413411
Owner Name: VITEC INC.
Owner Address: 1043 E. 4TH ST.
Owner City,St,Zip: SANTA ANA, CA 92702
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1970
Tank Capacity: 00005500
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 24905
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-15-93
Action Date: 07-15-93
Created Date: 07-31-88
Owner Tank Id: 1
SWRCB Tank Id: 30-020-024905-000001
Tank Status: A
Capacity: 5500

VITEC INC. (Continued) **U001578140**

Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 1

A8 **VITEC INC.** **CA FID UST** **S101619755**
NE **1043 E 004TH ST** **N/A**
< 1/8 **SANTA ANA, CA 92702**
0.027 mi.
140 ft. **Site 7 of 7 in cluster A**

Relative:
Higher

Actual:
133 ft.

CA FID UST:
Facility ID: 30017847
Regulated By: UTNKA
Regulated ID: 00024905
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145413411
Mail To: Not reported
Mailing Address: 1043 E 004TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92702
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

B9 **JOES TRANSMISSION** **RCRA-SQG** **1000905045**
SSW **117 N STANDARD UNIT C** **FINDS** **CA0000279018**
< 1/8 **SANTA ANA, CA 92702**
0.041 mi.
217 ft. **Site 1 of 6 in cluster B**

Relative:
Lower

Actual:
127 ft.

RCRA-SQG:
Date form received by agency: 05/05/1994
Facility name: JOES TRANSMISSION
Facility address: 117 N STANDARD UNIT C
SANTA ANA, CA 92702
EPA ID: CA0000279018
Mailing address: N STANDARD UNIT C
SANTA ANA, CA 92702
Contact: JOE GOMEZ
Contact address: 117 N STANDARD UNIT C
SANTA ANA, CA 92702
Contact country: US
Contact telephone: (714) 564-1667
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous

JOES TRANSMISSION (Continued) **1000905045**

waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: JOE GOMEZ
Owner/operator address: 117 N STANDARD AVE UNIT C
SANTA ANA, CA 92702
Owner/operator country: Not reported
Owner/operator telephone: (714) 564-1667
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002616438

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B10 **BERLIN TIRE CTR** **RCRA-SQG 1000596574**
SSW **115 N STANDARD** **FINDS CAD983605486**
< 1/8 **SANTA ANA, CA 92701** **HAZNET**
0.042 mi.
224 ft. **Site 2 of 6 in cluster B**

Relative:
Lower

Actual:
126 ft.

RCRA-SQG:
Date form received by agency: 09/09/1991
Facility name: BERLIN TIRE CTR
Facility address: 115 N STANDARD
SANTA ANA, CA 92701

BERLIN TIRE CTR (Continued) **1000596574**

EPA ID: CAD983605486
Contact: THAYLE DENNEY
Contact address: 115 N STANDARD
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 547-7155
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BERLIN TIRE CTR
Owner/operator address: 115 N STANDARD
SANTA ANA, CA 92701
Owner/operator country: Not reported
Owner/operator telephone: (714) 547-7155
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002860663

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

BERLIN TIRE CTR (Continued) **1000596574**

HAZNET:

envid:	1000596574
Year:	1993
GEPAID:	CAD983605486
Contact:	BERLIN TIRE CTR
Telephone:	7145477155
Mailing Name:	Not reported
Mailing Address:	115 N STANDARD
Mailing City,St,Zip:	SANTA ANA, CA 927010000
Gen County:	Not reported
TSD EPA ID:	CAT080025711
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Recycler
Tons:	0.33360000000
Facility County:	Orange

B11 **EDR US Hist Auto Stat** **1015168322**
SSW **115 N STANDARD AVE** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.042 mi.
224 ft. **Site 3 of 6 in cluster B**

Relative:
Lower

Actual:
126 ft.

EDR Historical Auto Stations:

Name:	K C AUTO COLLISION
Year:	1999
Address:	115 N STANDARD AVE
Name:	KC AUTO BODY & PAINT
Year:	2001
Address:	115 N STANDARD AVE
Name:	KC AUTO BODY & PAINT
Year:	2002
Address:	115 N STANDARD AVE
Name:	KRAACO AUTOMOTIVE INC
Year:	2003
Address:	115 N STANDARD AVE
Name:	STERLING AUTO BODY CENTERS
Year:	2004
Address:	115 N STANDARD AVE
Name:	STERLING AUTO BODY CENTERS
Year:	2005
Address:	115 N STANDARD AVE
Name:	STERLING AUTO BODY CENTERS
Year:	2006
Address:	115 N STANDARD AVE
Name:	STERLING AUTO BODY CENTERS
Year:	2007
Address:	115 N STANDARD AVE
Name:	STERLING AUTOBODY CENTER

(Continued) **1015168322**

Year: 2008
Address: 115 N STANDARD AVE

Name: TO & MO AUTO CTR
Year: 2010
Address: 115 N STANDARD AVE

Name: TO & MO AUTO CENTER
Year: 2011
Address: 115 N STANDARD AVE

Name: TO & MO AUTO CENTER
Year: 2012
Address: 115 N STANDARD AVE

C12 **WEBB D V** **EDR US Hist Auto Stat** **1009091810**
NE **1045 E 4TH REAR** **N/A**
< 1/8 **SANTA ANA, CA**
0.044 mi.
233 ft. **Site 1 of 6 in cluster C**

Relative:
Higher

Actual:
133 ft.

EDR Historical Auto Stations:
Name: WEBB D V
Year: 1945
Type: AUTO REPAIRING

C13 **TREESWEET PRODUCTS CO** **RCRA-SQG** **1000223187**
NE **1044 E 4TH ST** **FINDS** **CAD044340347**
< 1/8 **SANTA ANA, CA 92701** **Orange Co. Industrial Site**
0.052 mi. **HAZNET**
276 ft. **Site 2 of 6 in cluster C** **EMI**

Relative:
Higher

Actual:
133 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: TREESWEET PRODUCTS CO
Facility address: 1044 E 4TH ST
SANTA ANA, CA 92702
EPA ID: CAD044340347
Mailing address: E 4TH ST
SANTA ANA, CA 92702
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: TREESWEET PRODUCTS CO

TREESWEET PRODUCTS CO (Continued) **1000223187**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110057057278

Environmental Interest/Information System
STATE MASTER

Registry ID: 110002645656

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

TREESWEET PRODUCTS CO (Continued) **1000223187**

Orange Co. Industrial Site:
Case ID: 89IC013
Region: ORANGE
Record ID: RO0000187
Current Status: CLOSED 7/19/1989
Closure Type: Closed pre 1994, file review required to determine closure type
Released Chemical: DATA NOT ENTERED, SEE FILE

HAZNET:
envid: 1000223187
Year: 2013
GEPAID: CAL000377356
Contact: ADRIENNE FONTAINE
Telephone: 7708529063
Mailing Name: Not reported
Mailing Address: 3100 CUMBERLAND BLVD
Mailing City,St,Zip: ATLANTA, GA 303390000
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: Not reported
Facility County: Not reported

envid: 1000223187
Year: 2013
GEPAID: CAL000377356
Contact: ADRIENNE FONTAINE
Telephone: 7708529063
Mailing Name: Not reported
Mailing Address: 3100 CUMBERLAND BLVD
Mailing City,St,Zip: ATLANTA, GA 303390000
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0595
Facility County: Not reported

envid: 1000223187
Year: 2013
GEPAID: CAL000377356
Contact: ADRIENNE FONTAINE
Telephone: 7708529063
Mailing Name: Not reported
Mailing Address: 3100 CUMBERLAND BLVD
Mailing City,St,Zip: ATLANTA, GA 303390000
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

TREESWEET PRODUCTS CO (Continued) **1000223187**

(H010-H129) Or (H131-H135)
Tons: 0.0015
Facility County: Not reported

EMI:

Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	48024
Air District Name:	SC
SIC Code:	2082
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

B14 **ECS TRUCKING** **HIST UST U001575904**
South **1016 E 1ST ST** **SWEEPS UST N/A**
< 1/8 **SANTA ANA, CA 92401**
0.055 mi.
290 ft. **Site 4 of 6 in cluster B**

Relative:
Lower

Actual:
127 ft.

HIST UST:

Region:	STATE
Facility ID:	00000004273
Facility Type:	Other
Other Type:	TRUCK YARD
Contact Name:	ED SCHULTZ
Telephone:	7144944787
Owner Name:	GOODE OIL COMPANY
Owner Address:	1016 E. 1ST STREET
Owner City,St,Zip:	SANTA ANA, CA 92701
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1974
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

ECS TRUCKING (Continued) **U001575904**

Tank Num:	003
Container Num:	3
Year Installed:	1970
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

SWEEPS UST:

Status:	Not reported
Comp Number:	254
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000254-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	254
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000254-000002
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	254
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000254-000003
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	OIL

ECS TRUCKING (Continued) **U001575904**

STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

B15 **EDR US Hist Auto Stat** **1015128286**
South **1016 E 1ST ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.055 mi.
290 ft. **Site 5 of 6 in cluster B**

Relative:
Lower

Actual:
127 ft.

EDR Historical Auto Stations:

Name: MUSCLE CAR CITY
Year: 2006
Address: 1016 E 1ST ST

Name: MUSCLE CAR CITY
Year: 2007
Address: 1016 E 1ST ST

Name: MUSCLE CAR CITY
Year: 2010
Address: 1016 E 1ST ST

D16 **TOM'S TRUCK CENTER** **HIST UST** **U001578111**
NW **1008 E 4TH ST** **SWEEPS UST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.055 mi.
290 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
130 ft.

HIST UST:

Region: STATE
Facility ID: 00000053227
Facility Type: Other
Other Type: TOWING
Contact Name: G P HEIDIER
Telephone: 7148358350
Owner Name: REINDEER, INC
Owner Address: 100, E. 4TH ST
Owner City,St,Zip: SANTA ANA, CA 92701
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00007600
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

SWEEPS UST:

Status: Not reported
Comp Number: 310
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported

TOM'S TRUCK CENTER (Continued) **U001578111**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000310-000001
Tank Status:	Not reported
Capacity:	7500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

C17 **CONNELLY MACH** **RCRA-SQG 1000595362**
NE **420 TERMINAL ST** **FINDS CAD983592981**
< 1/8 **SANTA ANA, CA 92701**
0.055 mi.
292 ft. **Site 3 of 6 in cluster C**

Relative:
Higher

Actual:
134 ft.

RCRA-SQG:

Date form received by agency:	07/10/1991
Facility name:	CONNELLY MACH
Facility address:	420 TERMINAL ST SANTA ANA, CA 92701
EPA ID:	CAD983592981
Mailing address:	420 TERMINAL SANTA ANA, CA 92701
Contact:	CONNELLY RAY
Contact address:	420 TERMINAL ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 558-6855
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	RAY CONNELLY
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private

CONNELLY MACH (Continued) **1000595362**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002851450

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B18 **SO CAL GAS/SANTA ANA I (M** **HIST CORTESE** **S101661340**
South **NE CORNER OF MINNIE ST &** **N/A**
< 1/8 **SANTA ANA, CA 92709**
0.068 mi.
359 ft. **Site 6 of 6 in cluster B**

Relative:
Lower

Actual:
126 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: CALSI
Reg Id: 30490108

E19 SE < 1/8 0.068 mi. 361 ft. — **A B RADIATOR SHOP**, **1201 E 1ST ST**, **SANTA ANA, CA 92701**, **Site 1 of 6 in cluster E**

Database(s): **RCRA-SQG, FINDS, HAZNET, HAULERS**

EDR ID Number: **1000129377**
EPA ID Number: **CAD981972334**

Relative: Lower

Actual: 129 ft.

RCRA-SQG:

Date form received by agency:	05/11/1987
Facility name:	A B RADIATOR SHOP
Facility address:	1201 E 1ST ST SANTA ANA, CA 92701
EPA ID:	CAD981972334
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1201 E 1ST ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 541-8446
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	DAVID SAUGSTAD
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No

A B RADIATOR SHOP (Continued) **1000129377**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002760557

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1000129377
Year: 1994
GEPAID: CAD981972334
Contact: GLEN NORWOOD
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1201 E 1ST ST
Mailing City,St,Zip: SANTA ANA, CA 927010000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Tons: .4170
Facility County: Orange

HAULERS:
Facility ID: 1538171
Facility Phone: (951) 751-4644
Business Email Address: Not reported
Contact Person: Luis Varela
Mailing Address: 3626 Andover St
Mailing City: Corona
Mailing State: CA
Mailing Zip: 92879-1905
Mailing County: Riverside
Mailing Phone: Not reported
Waste Tire Permit Summary: No Permit record for this business.

Detail:
SR#: 754
Current Role: Hauler
Current Role Status: Registered
Facility ID: 1538171

A B RADIATOR SHOP (Continued) **1000129377**

SR#: 754
Current Role: Generator
Current Role Status: Yes
Facility ID: 1538171

SR#: 754
Current Role: End Use
Current Role Status: Yes
Facility ID: 1538171

E20 **EDR US Hist Auto Stat** **1015180088**
SE **1201 E 1ST ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.068 mi.
361 ft. **Site 2 of 6 in cluster E**

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:

Name: ESKIMO RADIATOR MANUFACTURING COMPANY DEALERS
Year: 1999
Address: 1201 E 1ST ST

Name: BRAKES 4 LESS
Year: 2002
Address: 1201 E 1ST ST

Name: BRAKES 4 LESS
Year: 2003
Address: 1201 E 1ST ST

D21 **MEN CAL RECYCLING** **NPDES** **S107137309**
NW **941 E 4TH ST** **SWRCY** **N/A**
< 1/8 **SANTA ANA, CA 92701** **PROC**
0.072 mi.
378 ft. **Site 2 of 2 in cluster D**

Relative:
Lower

Actual:
130 ft.

NPDES:

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 417625
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 30I023271
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 07/27/2011
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: MenCal Recycling
Discharge Address: 941 E 4th St
Discharge City: Santa Ana
Discharge State: California
Discharge Zip: 92701

MEN CAL RECYCLING (Continued) **S107137309**

SWRCY:

Reg Id:	27358
Cert Id:	RC4306
Mailing Address:	941 E 4th St
Mailing City:	Santa Ana
Mailing State:	CA
Mailing Zip Code:	92701
Website:	Not reported
Email:	Not reported
Phone Number:	(714) 547-7585
Grand Father:	N
Rural:	N
Operation Begin Date:	07/31/1991
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	7:00 am - 4:30 pm
Tuesday Hours Of Operation:	7:00 am - 4:30 pm
Wednesday Hours Of Operation:	7:00 am - 4:30 pm
Thursday Hours Of Operation:	7:00 am - 4:30 pm
Friday Hours Of Operation:	7:00 am - 4:30 pm
Saturday Hours Of Operation:	7:00 am - 1:30 pm
Sunday Hours Of Operation:	CLOSED
Organization ID:	18841
Organization Name:	941 Corp

PROC:

Reg Id:	27358
Cert Id:	PR0175
Organization Id:	18841
Organization Name:	941 Corp
Mailing Address:	941 E 4th St
Mailing City:	Santa Ana
Mailing State:	CA
Mailing Zip Code:	92701
Website:	Not reported
Email:	Not reported
Phone Number:	(714) 547-7585
Grand Father:	N/A
Rural:	N/A
Operation Begin Date:	02/11/1994
Aluminium:	Not reported
Glass:	Not reported
Plastic:	Not reported
Bimetal:	Not reported
Agency:	N/A
Monday Hours Of Operation:	7:00 am - 4:30 pm
Tuesday Hours Of Operation:	7:00 am - 4:30 pm
Wednesday Hours Of Operation:	7:00 am - 4:30 pm
Thursday Hours Of Operation:	7:00 am - 4:30 pm
Friday Hours Of Operation:	7:00 am - 4:30 pm
Saturday Hours Of Operation:	7:00 am - 1:30 pm
Sunday Hours Of Operation:	Not reported

E22
SE
< 1/8
0.074 mi.
389 ft.

EDR US Hist Auto Stat **1015181487**
N/A

1205 E 1ST ST
SANTA ANA, CA 92701

Site 3 of 6 in cluster E

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:

Name:	EXPRESS TUNE UP BRAKES
Year:	2002
Address:	1205 E 1ST ST
Name:	EXPRESS TUNE UP BRAKES
Year:	2005
Address:	1205 E 1ST ST
Name:	EXPRESS TUNE UP BRAKES
Year:	2006
Address:	1205 E 1ST ST
Name:	EXPRESS TUNE UP & BRAKES
Year:	2007
Address:	1205 E 1ST ST
Name:	EXPRESS TUNE UP & BRAKES
Year:	2008
Address:	1205 E 1ST ST

F23
WSW
< 1/8
0.078 mi.
410 ft.

EDR US Hist Auto Stat **1015679515**
N/A

936 E 2ND ST
SANTA ANA, CA 92701

Site 1 of 4 in cluster F

Relative:
Lower

Actual:
126 ft.

EDR Historical Auto Stations:

Name:	LANIER BODY SHOP
Year:	2002
Address:	936 E 2ND ST
Name:	LANIER BODY SHOP
Year:	2005
Address:	936 E 2ND ST
Name:	CRUZ AUTO REPAIR
Year:	2012
Address:	936 E 2ND ST

G24
ESE
< 1/8
0.081 mi.
430 ft.

EDR US Hist Cleaners **1009199969**
N/A

DE LUXE CLEANERS
211 SANTA FE ST
PLACENTIA, CA

Site 1 of 3 in cluster G

Relative:
Higher

Actual:
132 ft.

EDR Historical Cleaners:

Name:	DE LUXE CLEANERS
Year:	1936
Type:	CLEANERS AND DYERS

G25 **CURTIS C C** **EDR US Hist Auto Stat** **1009093656**
ESE **226 SANTA FE ST** **N/A**
< 1/8 **PLACENTIA, CA**
0.082 mi.
431 ft. **Site 2 of 3 in cluster G**

Relative:
Higher

Actual:
132 ft.

EDR Historical Auto Stations:
Name: CURTIS C C
Year: 1936
Type: AUTO REPAIRING

E26 **EDR US Hist Auto Stat** **1015154085**
ESE **1102 E 2ND ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.084 mi.
444 ft. **Site 4 of 6 in cluster E**

Relative:
Higher

Actual:
131 ft.

EDR Historical Auto Stations:
Name: SANTA FE AUTO REPAIRS
Year: 2002
Address: 1102 E 2ND ST

C27 **ANGELICA HEALTHCARE SERVICES G** **CA FID UST** **S101619727**
NE **1111 E 004TH ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.085 mi.
450 ft. **Site 4 of 6 in cluster C**

Relative:
Higher

Actual:
134 ft.

CA FID UST:
Facility ID: 30017826
Regulated By: UTNKA
Regulated ID: 00011189
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145474135
Mail To: Not reported
Mailing Address: 1111 E 004TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

28
SW
< 1/8
0.086 mi.
455 ft.

CARQUEST OF SANTA ANA NO 7913
920 E FIRST ST
SANTA ANA, CA 92701

RCRA-SQG
FINDS

1016140019
CAR000236034

Relative:
Lower

Actual:
125 ft.

RCRA-SQG:

Date form received by agency:	12/10/2014
Facility name:	CARQUEST OF SANTA ANA NO 7913
Site name:	CARQUEST AUTO PARTS NO 7913
Facility address:	920 E FIRST ST SANTA ANA, CA 92701
EPA ID:	CAR000236034
Mailing address:	PO BOX 26006 RALEIGH, NC 27611
Contact:	ELIZABETH A DILLON
Contact address:	PO BOX 26006 RALEIGH, NC 27611
Contact country:	US
Contact telephone:	919-573-3445
Contact email:	ELIZABETH.DILLON@GPI.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/20/2013
Site name:	CARQUEST OF SANTA ANA NO 7913
Classification:	Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

CARQUEST OF SANTA ANA NO 7913 (Continued) **1016140019**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

FINDS:

Registry ID: 110055424161

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

H29 **TOM'S TRUCK CENTER INC** **RCRA-SQG** **1000594330**
West **936 E 3RD ST** **FINDS** **CAD983581497**
< 1/8 **SANTA ANA, CA 92701**
0.087 mi.
458 ft. **Site 1 of 2 in cluster H**

Relative:
Lower

Actual:
128 ft.

RCRA-SQG:
Date form received by agency: 05/14/1991
Facility name: TOM'S TRUCK CENTER INC
Facility address: 936 E 3RD ST
SANTA ANA, CA 92701
EPA ID: CAD983581497
Contact: GEORGE HEIDLER
Contact address: 936 E 3RD ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 835-8350
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator

TOM'S TRUCK CENTER INC (Continued) **1000594330**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GEORGE HEIDLER
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002843718

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

C30
ENE
< 1/8
0.090 mi.
476 ft.

1061 E 4TH ST
SANTA ANA, CA 92701

Site 5 of 6 in cluster C

EDR US Hist Auto Stat **1015142639**
N/A

Relative:
Higher

Actual:
134 ft.

EDR Historical Auto Stations:

Name:	DOCHOR ENGINEERING INC
Year:	2005
Address:	1061 E 4TH ST
Name:	DOCHOR ENGINEERING INC
Year:	2006
Address:	1061 E 4TH ST
Name:	DOCHOR ENGINEERING INC
Year:	2007
Address:	1061 E 4TH ST
Name:	DOCHOR ENGINEERING INC
Year:	2008
Address:	1061 E 4TH ST
Name:	DOCHOR ENGINEERING INC
Year:	2009
Address:	1061 E 4TH ST

G31
East
< 1/8
0.091 mi.
478 ft.

STON & VAN DYKE
1101 E 3RD ST
SANTA ANA, CA 92701

Site 3 of 3 in cluster G

RCRA-SQG **1000303945**
FINDS **CAD029371630**

Relative:
Higher

Actual:
133 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	STON & VAN DYKE
Facility address:	1101 E 3RD ST SANTA ANA, CA 92701
EPA ID:	CAD029371630
Mailing address:	E 3RD ST SANTA ANA, CA 92701
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	PAUL JONES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999

STON & VAN DYKE (Continued) **1000303945**

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002642061

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

C32 **BUTLER EARL** **EDR US Hist Auto Stat** **1009091993**
ENE **1102 E 4TH ST** **N/A**
< 1/8 **SANTAANA, CA**
0.095 mi.
499 ft. **Site 6 of 6 in cluster C**

Relative:
Higher

Actual:
134 ft.

EDR Historical Auto Stations:
Name: BUTLER EARL
Year: 1925
Type: AUTOMOBILE REPAIRING

E33 **94902** **HIST UST** **U001578066**
SE **1221 E 1ST ST** **SWEEPS UST** **N/A**
< 1/8 **SANTA ANA, CA 92701** **HAZNET**
0.096 mi.
506 ft. **Site 5 of 6 in cluster E**

Relative:
Lower

Actual:
129 ft.

HIST UST:
Region: STATE
Facility ID: 00000062688
Facility Type: Gas Station
Other Type: Not reported
Contact Name: DOMOSLAI, FRANK
Telephone: 7145429207
Owner Name: CHEVRON U.S.A. INC.
Owner Address: 575 MARKET
Owner City,St,Zip: SAN FRANCISCO, CA 94105
Total Tanks: 0005

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000370
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000370
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000370
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00010000

94902 (Continued) **U001578066**

Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 0000370
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 0000370
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Not reported
Comp Number: 62688
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-062688-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: 5

Status: Not reported
Comp Number: 62688
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-062688-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 62688
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

94902 (Continued) **U001578066**

SWRCB Tank Id: 30-020-062688-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 62688
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-062688-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 62688
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-062688-000005
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

HAZNET:
envid: U001578066
Year: 2013
GEPAID: CAC002743342
Contact: KENNY NGUYEN
Telephone: 7146475051
Mailing Name: Not reported
Mailing Address: PO BOX 1988
Mailing City,St,Zip: SANTA ANA, CA 92702
Gen County: Orange
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery

94902 (Continued) **U001578066**

(H010-H129) Or (H131-H135)
Tons: 0.187
Facility County: Not reported

E34 **RIGGAN H B** **EDR US Hist Auto Stat** **1009091296**
SE **1221 E 1ST ST** **N/A**
< 1/8 **SANTA ANA, CA**
0.096 mi.
506 ft. **Site 6 of 6 in cluster E**

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:
Name: RIGGAN H B
Year: 1945
Type: AUTO SERVICE STATIONS

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35 **SO CAL GAS/SANTA ANA (MINNIE ST) MGP** **EDR MGP** **1008407772**
SSE **NEC OF MINNIE AND E WALNUT STREETS** **N/A**
< 1/8 **SANTA ANA, CA 92709**
0.097 mi.
510 ft.

Relative:
Lower

Actual:
126 ft.

Manufactured Gas Plants:

The site is on 1.50 acres located in the City of Santa Ana. It is currently occupied by a plastic related business The majority of the site is paved and no evidence of any MGP related odors or visible residues remain. The Santa Ana I site was inspectted by DTSC staff on March 22, 1994. The site is currently occupied by a lumber company. The PEA Report dated December 1, 1993 (analytical) shows high levels of polyaromatic hydrocarbons and poly- nuclear aromatics, lead, and total petroleum hydrocarrbons. The PEA recommended no emergency removal be conducted because of limited exposure to the substances at the site. Additional investigation, however is recommended for the Site around the former concrete oil tank area. DTSC recommends that a loww permeability fill be added to the planter boxes that have high levels of lead. The RWQCB may be concerned with the elevated levels of total petroleum hydrocarbons.

H36 **THERMO FLUIDS INC** **NPDES** **S105726093**
WNW **910 E. 4TH ST** **Orange Co. Industrial Site** **N/A**
< 1/8 **SANTA ANA, CA 92701** **HAZNET**
0.100 mi. **HWT**
527 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
129 ft.

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 428897
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 30I023716
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 07/09/2012
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported

THERMO FLUIDS INC (Continued) **S105726093**

Discharge Name: Thermo Fluids Inc
Discharge Address: 910 E 4th St
Discharge City: Santa Ana
Discharge State: California
Discharge Zip: 92701

Orange Co. Industrial Site:
Case ID: 12IC008
Region: ORANGE
Record ID: RO0003584
Current Status: OPEN
Closure Type: Not reported
Released Chemical: Not reported

HAZNET:
envid: S105726093
Year: 2013
GEPAID: CAL000381082
Contact: BRIAN HANEY
Telephone: 6024778623
Mailing Name: Not reported
Mailing Address: 8925 E PIMA CENTER PKWY STE 105
Mailing City,St,Zip: SCOTTSDALE, AZ 85258
Gen County: Orange
TSD EPA ID: NVD982510711
TSD County: 99
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 5.1376
Facility County: Not reported

envid: S105726093
Year: 2013
GEPAID: CAL000381082
Contact: BRIAN HANEY
Telephone: 6024778623
Mailing Name: Not reported
Mailing Address: 8925 E PIMA CENTER PKWY STE 105
Mailing City,St,Zip: SCOTTSDALE, AZ 85258
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.64635
Facility County: Not reported

envid: S105726093
Year: 2013
GEPAID: CAL000381082
Contact: BRIAN HANEY
Telephone: 6024778623
Mailing Name: Not reported
Mailing Address: 8925 E PIMA CENTER PKWY STE 105
Mailing City,St,Zip: SCOTTSDALE, AZ 85258

THERMO FLUIDS INC (Continued) **S105726093**

Gen County:	Orange
TSD EPA ID:	CAT080012602
TSD County:	Solano
Waste Category:	Not reported
Disposal Method:	Not reported
Tons:	0.441
Facility County:	Not reported

envid:	S105726093
Year:	2013
GEPAID:	CAL000381082
Contact:	BRIAN HANEY
Telephone:	6024778623
Mailing Name:	Not reported
Mailing Address:	8925 E PIMA CENTER PKWY STE 105
Mailing City,St,Zip:	SCOTTSDALE, AZ 85258
Gen County:	Orange
TSD EPA ID:	CAT080012602
TSD County:	Solano
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	261.9948
Facility County:	Not reported

envid:	S105726093
Year:	2013
GEPAID:	CAL000381082
Contact:	BRIAN HANEY
Telephone:	6024778623
Mailing Name:	Not reported
Mailing Address:	8925 E PIMA CENTER PKWY STE 105
Mailing City,St,Zip:	SCOTTSDALE, AZ 85258
Gen County:	Orange
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Not reported
Disposal Method:	H146
Tons:	8.246
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
14 additional CA_HAZNET: record(s) in the EDR Site Report.

HWT:

Reg Num:	3871
Expiration Date:	10/31/2014

I37 **MCCUNE R O** **EDR US Hist Auto Stat** **1009095307**
WNW **919 W 4TH ST** **N/A**
< 1/8 **SANTAANA, CA**
0.103 mi.
544 ft. **Site 1 of 4 in cluster I**

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:
Name: MCCUNE R O
Year: 1936
Type: AUTO REPAIRING

J38 **EDR US Hist Auto Stat** **1009091309**
NNE **510 TERMINAL ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.106 mi.
561 ft. **Site 1 of 8 in cluster J**

Relative:
Higher

Actual:
134 ft.

EDR Historical Auto Stations:
Name: JOHNSON S L
Year: 1945
Type: AUTO REPAIRING

Name: OLLIES AUTOMOTIVE MACHINING
Year: 1999
Address: 510 TERMINAL ST

Name: OLLIES AUTOMOTIVE MACHINING
Year: 2001
Address: 510 TERMINAL ST

Name: OLLIES AUTOMOTIVE MACHINING
Year: 2002
Address: 510 TERMINAL ST

Name: OLLIES ENGINEERING & RESEAR
Year: 2004
Address: 510 TERMINAL ST

J39 **EDR US Hist Auto Stat** **1015530854**
NNE **510 N TERMINAL ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.106 mi.
561 ft. **Site 2 of 8 in cluster J**

Relative:
Higher

Actual:
134 ft.

EDR Historical Auto Stations:
Name: OLLIES AUTOMOTIVE MACHINING
Year: 2008
Address: 510 N TERMINAL ST

K40 **FORD TRUCK PARTS** **RCRA-SQG** **1000184148**
NW **518 N POINSETTA** **FINDS** **CAD982039141**
< 1/8 **SANTA ANA, CA 92701** **HAZNET**
0.108 mi. **WDS**
568 ft. **Site 1 of 3 in cluster K**

Relative:
Higher

Actual:
131 ft.

RCRA-SQG:

Date form received by agency:	09/28/1987
Facility name:	FORD TRUCK PARTS
Facility address:	518 N POINSETTA SANTA ANA, CA 92701
EPA ID:	CAD982039141
Contact:	ENVIRONMENTAL MANAGER
Contact address:	518 N POINSETTA SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 953-9510
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	DELEO ANTHONY
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No

FORD TRUCK PARTS (Continued) **1000184148**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002784951

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1000184148
Year:	1993
GEPAID:	CAD982039141
Contact:	TRUCK SALVAGE CORP
Telephone:	7149539500
Mailing Name:	Not reported
Mailing Address:	518 N POINSETTIA
Mailing City,St,Zip:	SANTA ANA, CA 927014757
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Recycler
Tons:	0.4587
Facility County:	Orange

WDS:

Facility ID:	Santa Ana River 30I013171
Facility Type:	Not reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	TRUCK SALVAGE CORP
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported

FORD TRUCK PARTS (Continued) **1000184148**

Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

L41 **EDR US Hist Auto Stat** **1015157482**
ENE **1110 E 4TH ST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.110 mi.
581 ft. **Site 1 of 8 in cluster L**

Relative:
Higher

Actual:
134 ft.

EDR Historical Auto Stations:

Name:	GREAT AMERICAN AUTO SERVICE
Year:	1999
Address:	1110 E 4TH ST
Name:	GREAT AMERICAN AUTO SERVICE
Year:	2001
Address:	1110 E 4TH ST
Name:	METRO AUTO CTR INC
Year:	2002
Address:	1110 E 4TH ST
Name:	METRO AUTO CTR INC
Year:	2003
Address:	1110 E 4TH ST
Name:	METRO AUTO CTR INC
Year:	2004
Address:	1110 E 4TH ST
Name:	METRO AUTO CENTER INC
Year:	2005
Address:	1110 E 4TH ST
Name:	METRO AUTO CENTER
Year:	2011
Address:	1110 E 4TH ST

(Continued) **1015157482**

Name: METRO AUTO CENTER
Year: 2012
Address: 1110 E 4TH ST

L42 **JOHNSON ENTERPRISES** **RCRA-SQG** **1000820199**
ENE **1114 E 4TH ST** **FINDS** **CAD983662263**
< 1/8 **SANTA ANA, CA 92701** **HAZNET**
0.113 mi.
596 ft. **Site 2 of 8 in cluster L**

Relative:
Higher

Actual:
134 ft.

RCRA-SQG:
Date form received by agency: 03/19/1993
Facility name: JOHNSON ENTERPRISES
Facility address: 1114 E 4TH ST
SANTA ANA, CA 92701
EPA ID: CAD983662263
Mailing address: E FOURTH ST
SANTA ANA, CA 92701
Contact: KENNETH JOHNSON
Contact address: 1114 E FOURTH ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 547-8322
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: KENNETH E JOHNSON
Owner/operator address: 1114 E 4TH ST
SANTA ANA, CA 92701
Owner/operator country: Not reported
Owner/operator telephone: (714) 547-8322
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No

JOHNSON ENTERPRISES (Continued) **1000820199**

Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002894841

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid: 1000820199
Year: 1998
GEPAID: CAD983662263
Contact: KENNETH E JOHNSON
Telephone: 7145478322
Mailing Name: Not reported
Mailing Address: 1114 E 4TH ST
Mailing City,St,Zip: SANTA ANA, CA 927014909
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Unspecified organic liquid mixture
Disposal Method: Transfer Station
Tons: .4587
Facility County: Orange

envid: 1000820199
Year: 1998
GEPAID: CAD983662263
Contact: KENNETH E JOHNSON
Telephone: 7145478322
Mailing Name: Not reported
Mailing Address: 1114 E 4TH ST
Mailing City,St,Zip: SANTA ANA, CA 927014909
Gen County: Not reported
TSD EPA ID: CAT080022148
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Transfer Station
Tons: .2293
Facility County: Orange

envid: 1000820199
Year: 1998
GEPAID: CAD983662263
Contact: KENNETH E JOHNSON
Telephone: 7145478322
Mailing Name: Not reported

JOHNSON ENTERPRISES (Continued) **1000820199**

Mailing Address:	1114 E 4TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927014909
Gen County:	Not reported
TSD EPA ID:	CAT080022148
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Not reported
Tons:	.6880
Facility County:	Orange

envid:	1000820199
Year:	1993
GEPAID:	CAD983662263
Contact:	KENNETH E JOHNSON
Telephone:	7145478322
Mailing Name:	Not reported
Mailing Address:	1114 E 4TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927014909
Gen County:	Not reported
TSD EPA ID:	CAD000088252
TSD County:	Not reported
Waste Category:	Unspecified solvent mixture
Disposal Method:	Transfer Station
Tons:	0.4587
Facility County:	Orange

F43 **FORMER RICE AUTO PARTS** **LUST** **S104574564**
WSW **905 E 2ND ST** **Orange Co. Industrial Site** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.114 mi.
604 ft. **Site 2 of 4 in cluster F**

Relative:
Lower

Actual:
126 ft.

LUST:

Region:	STATE
Global Id:	T0605901427
Latitude:	33.746502512
Longitude:	-117.8588602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/05/2008
Lead Agency:	SANTA ANA, CITY OF
Case Worker:	CC
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083001915T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901427
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500

FORMER RICE AUTO PARTS (Continued) **S104574564**

City: RIVERSIDE
Email: vjahn-bull@waterboards.ca.gov
Phone Number: 9517824903

Global Id: T0605901427
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Status History:
Global Id: T0605901427
Status: Open - Site Assessment
Status Date: 08/15/1991

Global Id: T0605901427
Status: Open - Site Assessment
Status Date: 08/27/1991

Global Id: T0605901427
Status: Completed - Case Closed
Status Date: 02/05/2008

Global Id: T0605901427
Status: Open - Case Begin Date
Status Date: 08/15/1991

Regulatory Activities:
Global Id: T0605901427
Action Type: Other
Date: 08/15/1991
Action: Leak Stopped

Global Id: T0605901427
Action Type: Other
Date: 08/15/1991
Action: Leak Reported

Global Id: T0605901427
Action Type: Other
Date: 08/15/1991
Action: Leak Discovery

Global Id: T0605901427
Action Type: ENFORCEMENT
Date: 02/05/2008
Action: Closure/No Further Action Letter

Orange Co. Industrial Site:
Case ID: 07IC013
Region: ORANGE
Record ID: RO0003442

FORMER RICE AUTO PARTS (Continued) **S104574564**

Current Status: CLOSED 2/27/2008
Closure Type: Closure certification issued
Released Chemical: HEAVY METAL WASTE-NON-PLATING; FUEL WASTE; ORGANIC COMPOUNDS; LEAD COMPOUNDS; OIL AND WATER

Case ID: 85IC004
Region: ORANGE
Record ID: RO0000071
Current Status: CLOSED 8/17/1990
Closure Type: Closed pre 1994, file review required to determine closure type
Released Chemical: LEAD COMPOUNDS

Case ID: 91IC035
Region: ORANGE
Record ID: RO0000321
Current Status: CLOSED 4/7/1993
Closure Type: Closed pre 1994, file review required to determine closure type
Released Chemical: ORGANIC COMPOUNDS

F44 **RICE AUTO PARTS(FORMER)** **HIST CORTESE** **1000195373**
WSW **905 EAST 2ND STREET** **LUST** **N/A**
< 1/8 **SANTA ANA, CA 92701** **ENVIROSTOR**
0.114 mi. **WDS**
604 ft. **Site 3 of 4 in cluster F**

Relative:
Lower

Actual:
126 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001915T

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Preliminary site assessment workplan submitted
Case Number: 083001915T
Local Case Num: Not reported
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: Not reported
Enf Type: Not reported
Funding: Not reported
How Discovered: Not reported
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0605901427
How Stopped Date: 8/15/1991
Enter Date: 7/26/1991
Date Confirmation of Leak Began: 8/15/1991
Date Preliminary Assessment Began: Not reported
Discover Date: 8/15/1991
Enforcement Date: Not reported
Close Date: Not reported

RICE AUTO PARTS(FORMER) (Continued) **1000195373**

Date Prelim Assessment Workplan Submitted:	8/27/1991
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	7/26/1991
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.74650251
Longitude:	-117.8588602
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

ENVIROSTOR:

Facility ID:	60000730
Status:	Refer: 1248 Local Agency
Status Date:	07/20/2007
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	69
Senate:	34
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.74672
Longitude:	-117.8587
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED

RICE AUTO PARTS(FORMER) (Continued) **1000195373**

Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 60000730
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

WDS:
Facility ID: Santa Ana River 30I004901
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: YOON SOO YEO
Agency Address: Not reported
Agency City,St,Zip: 0
Agency Contact: Not reported
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

RICE AUTO PARTS(FORMER) (Continued) **1000195373**

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

F45 **RICE AUTO PARTS** **RCRA-SQG 1010562208**
WSW **905 E 2ND ST** **HAZNET CAR000188243**
< 1/8 **SANTA ANA, CA 92701**
0.114 mi.
604 ft. **Site 4 of 4 in cluster F**

Relative:
Lower

Actual:
126 ft.

RCRA-SQG:

Date form received by agency:	10/24/2007
Facility name:	RICE AUTO PARTS
Facility address:	905 E 2ND ST SANTA ANA, CA 92701
EPA ID:	CAR000188243
Mailing address:	3117 W 5TH ST SANTA ANA, CA 92703
Contact:	YOUNG M YANG
Contact address:	3117 W 5TH ST SANTA ANA, CA 92703
Contact country:	US
Contact telephone:	714-542-4421
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	GRACE S ROCCO AND WILLIAM BECKMAN
Owner/operator address:	1462 MCLEAN DR SANTA ANA, CA 92705
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1982
Owner/Op end date:	Not reported
Owner/operator name:	YOUNG YANG
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private

RICE AUTO PARTS (Continued) **1010562208**

Owner/Operator Type: Operator
Owner/Op start date: 01/01/1987
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Violation Status: No violations found

HAZNET:
envid: 1010562208
Year: 2007
GEPAID: CAR000188243
Contact: YOUNG M YANG
Telephone: 7145424421
Mailing Name: Not reported
Mailing Address: 3117 W 5TH ST
Mailing City,St,Zip: SANTA ANA, CA 927030000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Contaminated soil from site clean-up
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.5
Facility County: Orange

J46 **LESTER FOWLER RECEIVERSHIP** **RCRA-SQG** **1000595841**
NNE **1041 E 6TH ST** **FINDS** **CAD983597964**
< 1/8 **SANTA ANA, CA 92701**
0.121 mi.
640 ft. **Site 3 of 8 in cluster J**

Relative:
Higher

Actual:
135 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: LESTER FOWLER RECEIVERSHIP
Facility address: 1041 E 6TH ST
SANTA ANA, CA 92701
EPA ID: CAD983597964

LESTER FOWLER RECEIVERSHIP (Continued) **1000595841**

Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LESTER FOWLER
Owner/operator address: 720 S EARLHAM
ORANGE, CA 92667
Owner/operator country: Not reported
Owner/operator telephone: (714) 639-0678
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/28/1994
Site name: LESTER FOWLER RECEIVERSHIP
Classification: Large Quantity Generator

LESTER FOWLER RECEIVERSHIP (Continued) **1000595841**

Violation Status: No violations found

FINDS:

Registry ID: 110002855232

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

J47 **FREEWAY AUTO WRECKERS** **CERCLIS** **1001491827**
NNE **1041 EAST 6TH STREET** **ENVIROSTOR** **CASFN0905483**
< 1/8 **SANTA ANA, CA 92701**
0.121 mi.
640 ft. **Site 4 of 8 in cluster J**

Relative:
Higher

Actual:
135 ft.

CERCLIS:

Site ID:	0905483
EPA ID:	CASFN0905483
Facility County:	ORANGE
Short Name:	FREEWAY AUTO WRECKERS
Congressional District:	Not reported
IFMS ID:	Not reported
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	SI Start Needed
Non NPL Status Date:	08/15/05
Site Fips Code:	06059
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported

FREEWAY AUTO WRECKERS (Continued) **1001491827**

Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 13003854.00000
Contact Name: Leslie Ramirez
Contact Tel: (415) 972-3978
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 04/24/98
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 08/15/00
Date Completed: 08/16/05
Priority Level: Low priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

ENVIROSTOR:
Facility ID: 30990003
Status: Inactive - Needs Evaluation
Status Date: 01/30/2001
Site Code: Not reported
Site Type: Evaluation

FREEWAY AUTO WRECKERS (Continued) **1001491827**

Site Type Detailed: Evaluation
Acres: 2
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: US EPA
Program Manager: Rania Zabaneh
Supervisor: Eileen Mananian
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.74999
Longitude: -117.8545
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ALL AUTO SALVAGE
Alias Type: Alternate Name
Alias Name: FORMER FOWLER PROPERTY
Alias Type: Alternate Name
Alias Name: FREEWAY AUTO WRECKERS
Alias Type: Alternate Name
Alias Name: NATIONAL SALVAGE
Alias Type: Alternate Name
Alias Name: CAD983597964
Alias Type: EPA Identification Number
Alias Name: CASFN0905483
Alias Type: EPA Identification Number
Alias Name: 30990003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Reassessment
Completed Date: 12/03/2006
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

J48
NNE
< 1/8
0.121 mi.
640 ft.

1041 E 6TH ST
SANTA ANA, CA 92701

Site 5 of 8 in cluster J

EDR US Hist Auto Stat **1015137217**
N/A

Relative:
Higher

Actual:
135 ft.

EDR Historical Auto Stations:

Name:	FREEWAY AUTO WRECKING
Year:	2012
Address:	1041 E 6TH ST

I49
WNW
< 1/8
0.121 mi.
641 ft.

FEDERAL DISPOSAL SERVICES
922 E 4TH ST
SANTA ANA, CA 92701

Site 2 of 4 in cluster I

RCRA-SQG **1000594491**
FINDS **CAD983583220**
HAZNET

Relative:
Lower

Actual:
128 ft.

RCRA-SQG:

Date form received by agency:	05/20/1991
Facility name:	FEDERAL DISPOSAL SERVICES
Facility address:	922 E 4TH ST SANTA ANA, CA 92701
EPA ID:	CAD983583220
Mailing address:	PO BOX 18556 SANTA ANA, CA 92701
Contact:	SHUBIN DONALD
Contact address:	922 E 4TH ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 542-7701
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DONALD B SHUBIN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

FEDERAL DISPOSAL SERVICES (Continued) **1000594491**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002844986

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1000594491
Year: 1999
GEPAID: CAD983583220
Contact: FEDERAL DISPOSAL SERVICES
Telephone: 7145427701
Mailing Name: Not reported
Mailing Address: PO BOX 118
Mailing City,St,Zip: SANTA ANA, CA 927020118
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: .1084
Facility County: Orange

50 South < 1/8 0.123 mi. 650 ft. **GEORGE'S RECYCLING CTR**
930 E WALNUT STREET
SANTA ANA, CA 92701

RCRA NonGen / NLR **1001085671**
FINDS **CAR000009951**

Relative: Lower

Actual: 124 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/11/1996
Facility name:	GEORGE'S RECYCLING CTR
Facility address:	930 E WALNUT STREET SANTA ANA, CA 92701
EPA ID:	CAR000009951
Mailing address:	E WALNUT STREET SANTA ANA, CA 92701
Contact:	JORGE CASTANEDA
Contact address:	930 E WALNUT STREET SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 547-9079
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DILVA S JOHNSON
Owner/operator address:	930 E WALNUT ST SANTA ANA, CA 92701
Owner/operator country:	Not reported
Owner/operator telephone:	(714) 547-9079
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002910592

Environmental Interest/Information System

GEORGE'S RECYCLING CTR (Continued) **1001085671**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

L51 **SANTA ANA LAUNDRY** **EDR US Hist Cleaners** **1009196487**
ENE **1111 E 4TH ST** **N/A**
< 1/8 **SANTAANA, CA**
0.124 mi.
653 ft. **Site 3 of 8 in cluster L**

Relative:
Higher

Actual:
134 ft.

EDR Historical Cleaners:

Name:	SANTA ANA LAUNDRY
Year:	1925
Type:	LAUNDRIES
Name:	SANTA ANA LAUNDRY
Year:	1936
Type:	LAUNDRIES

L52 **SANTA ANA LAUNDRY** **EDR US Hist Cleaners** **1009198209**
ENE **1111 E 4TH ST** **N/A**
< 1/8 **SANTA ANA, CA**
0.125 mi.
659 ft. **Site 4 of 8 in cluster L**

Relative:
Higher

Actual:
134 ft.

EDR Historical Cleaners:

Name:	SANTA ANA LAUNDRY
Year:	1945
Type:	LAUNDRIES

L53 **ANGELICA HEALTHCARE SERVICES G** **HIST UST** **U001578069**
ENE **1111 E 4TH ST** **SWEEPS UST** **N/A**
< 1/8 **SANTA ANA, CA 92701**
0.125 mi.
659 ft. **Site 5 of 8 in cluster L**

Relative:
Higher

Actual:
134 ft.

HIST UST:

Region:	STATE
Facility ID:	00000011189
Facility Type:	Other
Other Type:	LINEN SUPPLY
Contact Name:	LOU SILVER
Telephone:	7145474135
Owner Name:	ANGELICA HEALTHCARE SERVICES G
Owner Address:	600 NORTH EUCLID-3RD FLOOR
Owner City,St,Zip:	ANAHEIM, CA 92801
Total Tanks:	0002
Tank Num:	001
Container Num:	G-14-1
Year Installed:	Not reported

ANGELICA HEALTHCARE SERVICES G (Continued) **U001578069**

Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 0-14-1
Year Installed: Not reported
Tank Capacity: 00009000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 11189
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-15-93
Action Date: 07-15-93
Created Date: 07-31-88
Owner Tank Id: G-14-1
SWRCB Tank Id: 30-020-011189-000001
Tank Status: A
Capacity: 3000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 2

Status: Active
Comp Number: 11189
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-15-93
Action Date: 07-15-93
Created Date: 07-31-88
Owner Tank Id: -14-1
SWRCB Tank Id: 30-020-011189-000002
Tank Status: A
Capacity: 9000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

L54 **CRESCENT CLEANING CO** **EDR US Hist Cleaners** **1009196961**
ENE **1113 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.127 mi.
670 ft. **Site 6 of 8 in cluster L**

Relative: EDR Historical Cleaners:
Higher Name: CRESCENT CLEANING CO
Year: 1925
Actual: Type: CLEANERS AND DYERS
134 ft.

L55 **CRESCENT CLEANERS** **EDR US Hist Cleaners** **1009199963**
ENE **1113 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.127 mi.
670 ft. **Site 7 of 8 in cluster L**

Relative: EDR Historical Cleaners:
Higher Name: CRESCENT CLEANERS
Year: 1936
Actual: Type: CLEANERS AND DYERS
134 ft.

L56 **CRESCENT CLEANERS** **EDR US Hist Cleaners** **1009199661**
ENE **1113 E 4TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.128 mi.
674 ft. **Site 8 of 8 in cluster L**

Relative: EDR Historical Cleaners:
Higher Name: CRESCENT CLEANERS
Year: 1945
Actual: Type: CLEANERS AND DYERS
134 ft.

J57 **EDR US Hist Auto Stat** **1015137878**
NNE **1045 E 6TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.130 mi.
688 ft. **Site 6 of 8 in cluster J**

Relative: EDR Historical Auto Stations:
Higher Name: LENNY S AUTO WRECKING
Year: 2003
Actual: Address: 1045 E 6TH ST
135 ft.

Name: LENNYS AUTO WRECKING
Year: 2004
Address: 1045 E 6TH ST

I58 **RAY A E** **EDR US Hist Cleaners** **1009196584**
WNW **904 W 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.135 mi.
715 ft. **Site 3 of 4 in cluster I**

Relative:
Lower

Actual:
128 ft.

EDR Historical Cleaners:
Name: RAY A E
Year: 1936
Type: CLEANERS AND DYERS

I59 **SUNSET DYE WORKS** **EDR US Hist Cleaners** **1009196477**
WNW **904 W 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.135 mi.
715 ft. **Site 4 of 4 in cluster I**

Relative:
Lower

Actual:
128 ft.

EDR Historical Cleaners:
Name: SUNSET DYE WORKS
Year: 1925
Type: CLEANERS AND DYERS

J60 **LIEBERT SCRAP METALS INC** **RCRA-SQG** **1000163204**
NNE **1051 E SIXTH ST** **FINDS** **CAD981170319**
1/8-1/4 **SANTA ANA, CA 92701**
0.136 mi.
719 ft. **Site 7 of 8 in cluster J**

Relative:
Higher

Actual:
135 ft.

RCRA-SQG:
Date form received by agency: 01/21/1986
Facility name: LIEBERT SCRAP METALS INC
Facility address: 1051 E SIXTH ST
SANTA ANA, CA 92701
EPA ID: CAD981170319
Contact: ENV MGR
Contact address: 1051 E SIXTH ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 835-3649
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LIEBERT MORTON
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

LIEBERT SCRAP METALS INC (Continued) **1000163204**

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002681189

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

M61 **SO CAL GAS/SANTA ANA I (MINNIE ST) MGP** **VCP** **S106568264**
SSE **NE CORNER OF MINNIE ST & E. WALNUT ST.** **ENVIROSTOR** **N/A**
1/8-1/4 **SANTA ANA, CA 92709**
0.138 mi.
726 ft. **Site 1 of 5 in cluster M**

Relative:
Lower

Actual:
127 ft.

VCP:
Facility ID: 30490108
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program

SO CAL GAS/SANTA ANA I (MINNIE ST) MGP (Continued) **S106568264**

Project Manager:	Chand Sultana
Supervisor:	Allan Plaza
Division Branch:	Cleanup Chatsworth
Site Code:	400343
Assembly:	69
Senate:	34
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	07/18/2001
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	33.7447 / -117.8542
APN:	NONE SPECIFIED
Past Use:	MANUFACTURED GAS PLANT
Potential COC:	30003, 30013, 30014, 30019, 30022
Confirmed COC:	30003,30013,30014,30019,30022
Potential Description:	SOIL
Alias Name:	SO CAL GAS - SANTA ANA
Alias Type:	Alternate Name
Alias Name:	SOUTHERN CALIFORNIA GAS
Alias Type:	Alternate Name
Alias Name:	SOUTHERN CALIFORNIA GAS COMPANY
Alias Type:	Alternate Name
Alias Name:	TOWN GAS SITE - SANTA ANA
Alias Type:	Alternate Name
Alias Name:	TOWN GAS SITE - SANTA ANA I
Alias Type:	Alternate Name
Alias Name:	TOWN GAS SITE 1 - SANTA ANA
Alias Type:	Alternate Name
Alias Name:	110033606051
Alias Type:	EPA (FRS #)
Alias Name:	400343
Alias Type:	Project Code (Site Code)
Alias Name:	30490108
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Initial Study/ Neg. Declaration
Completed Date:	02/27/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	08/11/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	07/18/2001
Comments:	A Voluntary Cleanup Agreement was signed for RI, combined with Former Whittier MGP, Former Monrovia MGP, Former Riverside MGP, and Former Pomona MGP.
Completed Area Name:	PROJECT WIDE

SO CAL GAS/SANTA ANA I (MINNIE ST) MGP (Continued) **S106568264**

Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/20/1993
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/07/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/18/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/09/2007
Comments: DTSC sent the cost estimate for the upcoming year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/27/2006
Comments: DTSC approved the removal Action Workplan on February 27, 2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/12/2004
Comments: DTSC approved the Supplemental Site Investiagation/Health Risk Assessment Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/21/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/16/2010
Comments: DTSC approved the RACR and referred the project to Chand Sultana of Chatsworth Office for the placement of LUC, which includes the Soil Management Plan and Operation & Maintenance Agreement.

Completed Area Name: PROJECT WIDE

SO CAL GAS/SANTA ANA I (MINNIE ST) MGP (Continued) **S106568264**

Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/27/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Workplan
Completed Date: 06/29/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/20/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 08/30/2002
Comments: RP adequately addressed DTSC's comments dated July 10, 2002.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/21/2008
Comments: The Workplan and the addendum are proposed to evaluate the potential for vapor intrusion to indoor air. The results of the soil gas survey will be used to determine site-specific risks, if any, and to develop a plan of action to mitigate the risk if necessary.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 06/30/2015
Schedule Revised Date: 11/28/2015

ENVIROSTOR:
Facility ID: 30490108
Status: Active
Status Date: 07/18/2001
Site Code: 400343
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Chand Sultana
Supervisor: Allan Plaza
Division Branch: Cleanup Chatsworth
Assembly: 69

SO CAL GAS/SANTA ANA I (MINNIE ST) MGP (Continued) **S106568264**

Senate: 34
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.7447
Longitude: -117.8542
APN: NONE SPECIFIED
Past Use: MANUFACTURED GAS PLANT
Potential COC: Benzene Lead Mercury (elemental Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE
Confirmed COC: Benzene Lead Mercury (elemental Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE
Potential Description: SOIL
Alias Name: SO CAL GAS - SANTA ANA
Alias Type: Alternate Name
Alias Name: SOUTHERN CALIFORNIA GAS
Alias Type: Alternate Name
Alias Name: SOUTHERN CALIFORNIA GAS COMPANY
Alias Type: Alternate Name
Alias Name: TOWN GAS SITE - SANTA ANA
Alias Type: Alternate Name
Alias Name: TOWN GAS SITE - SANTA ANA I
Alias Type: Alternate Name
Alias Name: TOWN GAS SITE 1 - SANTA ANA
Alias Type: Alternate Name
Alias Name: 110033606051
Alias Type: EPA (FRS #)
Alias Name: 400343
Alias Type: Project Code (Site Code)
Alias Name: 30490108
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Neg. Declaration
Completed Date: 02/27/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 08/11/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 07/18/2001
Comments: A Voluntary Cleanup Agreement was signed for RI, combined with Former Whittier MGP, Former Monrovia MGP, Former Riverside MGP, and Former Pomona MGP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/20/1993

SO CAL GAS/SANTA ANA I (MINNIE ST) MGP (Continued) **S106568264**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/07/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/09/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/18/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/09/2007
Comments: DTSC sent the cost estimate for the upcoming year.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 02/27/2006
Comments: DTSC approved the removal Action Workplan on February 27, 2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 03/12/2004
Comments: DTSC approved the Supplemental Site Investiagation/Health Risk Assessment Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/21/1994
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/16/2010
Comments: DTSC approved the RACR and referred the project to Chand Sultana of Chatsworth Office for the placement of LUC, which includes the Soil Management Plan and Operation & Maintenance Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 04/27/2007

SO CAL GAS/SANTA ANA I (MINNIE ST) MGP (Continued) **S106568264**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Tank Removal Workplan
Completed Date:	06/29/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/20/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	08/30/2002
Comments:	RP adequately addressed DTSC's comments dated July 10, 2002.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	05/21/2008
Comments:	The Workplan and the addendum are proposed to evaluate the potential for vapor intrusion to indoor air. The results of the soil gas survey will be used to determine site-specific risks, if any, and to develop a plan of action to mitigate the risk if necessary.
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Certification
Future Due Date:	2015
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	06/30/2015
Schedule Revised Date:	11/28/2015

N62 **BEN WARNER TOWING** **RCRA-SQG** **1000595848**
SSW **818 E WALNUT** **FINDS** **CAD983598038**
1/8-1/4 **SANTA ANA, CA 92701** **HAZNET**
0.141 mi. **WDS**
744 ft. **Site 1 of 3 in cluster N**

Relative:
Lower

Actual:
123 ft.

RCRA-SQG:

Date form received by agency:	07/26/1991
Facility name:	BEN WARNER TOWING
Facility address:	818 E WALNUT SANTA ANA, CA 92701
EPA ID:	CAD983598038
Mailing address:	E WALNUT SANTA ANA, CA 92701
Contact:	HENDRICK DEMOET
Contact address:	818 E WALNUT SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 542-7241

BEN WARNER TOWING (Continued) **1000595848**

Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BEN WARNER TOWING
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002855303

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal

BEN WARNER TOWING (Continued) **1000595848**

facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1000595848
Year:	1995
GEPAID:	CAD983598038
Contact:	BEN WARNER TOWING
Telephone:	7143851200
Mailing Name:	Not reported
Mailing Address:	1301 E ORANGEWOOD AVE
Mailing City,St,Zip:	ANAHEIM, CA 928050000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Tons:	9.5910
Facility County:	Orange

envid:	1000595848
Year:	1995
GEPAID:	CAD983598038
Contact:	BEN WARNER TOWING
Telephone:	7143851200
Mailing Name:	Not reported
Mailing Address:	1301 E ORANGEWOOD AVE
Mailing City,St,Zip:	ANAHEIM, CA 928050000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues 10 percent or more
Disposal Method:	Recycler
Tons:	3.1066
Facility County:	Orange

envid:	1000595848
Year:	1995
GEPAID:	CAD983598038
Contact:	BEN WARNER TOWING
Telephone:	7143851200
Mailing Name:	Not reported
Mailing Address:	1301 E ORANGEWOOD AVE
Mailing City,St,Zip:	ANAHEIM, CA 928050000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified aqueous solution
Disposal Method:	Not reported
Tons:	1.4595

BEN WARNER TOWING (Continued) **1000595848**

Facility County: Orange

envid: 1000595848
Year: 1994
GEPAID: CAD983598038
Contact: BEN WARNER TOWING
Telephone: 7143851200
Mailing Name: Not reported
Mailing Address: 1301 E ORANGEWOOD AVE
Mailing City,St,Zip: ANAHEIM, CA 928050000
Gen County: Not reported
TSD EPA ID: CAD000088252
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: .3336
Facility County: Orange

WDS:
Facility ID: Santa Ana River 30I005138
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 8
Facility Telephone: 7145427241
Facility Contact: BOB VANCE
Agency Name: BEN WARNERS GARAGE INC.
Agency Address: 1301 E ORANGEWOOD AVE STE 130
Agency City,St,Zip: ANAHEIM 92805
Agency Contact: CINDI R GALFIN
Agency Telephone: 7143851522
Agency Type: Private
SIC Code: 0
SIC Code 2: Not reported
Primary Waste Type: Not reported
Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to

BEN WARNER TOWING (Continued) **1000595848**

represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

N63 **AST** **A100340852**
SSW **818 E WALNUT ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.141 mi.
744 ft. **Site 2 of 3 in cluster N**

Relative: **Lower**

AST:
Certified Unified Program Agencies: Orange
Owner: BEN WARNER TOWING
Actual: **123 ft.** Total Gallons: 1,320

N64 **EDR US Hist Auto Stat** **1015646406**
SSW **818 E WALNUT ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.141 mi.
744 ft. **Site 3 of 3 in cluster N**

Relative: **Lower**

EDR Historical Auto Stations:
Name: IRVS AUTO COLLISION
Year: 2005
Actual: **123 ft.** Address: 818 E WALNUT ST

Name: IRVS AUTO COLLISION
Year: 2006
Address: 818 E WALNUT ST

Name: IRVS AUTO COLLISION
Year: 2007
Address: 818 E WALNUT ST

Name: IRVS AUTO COLLISION
Year: 2008
Address: 818 E WALNUT ST

Name: IRVS AUTO COLLISION
Year: 2009
Address: 818 E WALNUT ST

Name: IRVS AUTOBODY
Year: 2010
Address: 818 E WALNUT ST

K65 **BARRE ENGINEERING & CONSTRUCTION INC** **LUST** **S106387417**
NNW **1000 6TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.144 mi.
758 ft. **Site 2 of 3 in cluster K**

Relative:
Higher

Actual:
132 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083003690T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605999107
How Stopped Date:	Not reported
Enter Date:	5/18/1999
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	5/19/1999
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/18/1999
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.749663
Longitude:	-117.857798
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	MIK
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported

BARRE ENGINEERING & CONSTRUCTION INC (Continued) **S106387417**

Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

K66 **S G ROOFING** **RCRA-SQG** **1000130237**
NNW **1000 E 6TH ST** **FINDS** **CAD981999071**
1/8-1/4 **SANTA ANA, CA 92701** **LUST**
0.144 mi. **SWEEPS UST**
758 ft. **Site 3 of 3 in cluster K** **HAZNET**

Relative:
Higher

Actual:
132 ft.

RCRA-SQG:
Date form received by agency: 06/09/1987
Facility name: S G ROOFING
Facility address: 1000 E 6TH ST
SANTA ANA, CA 92701
EPA ID: CAD981999071
Contact: ENVIRONMENTAL MANAGER
Contact address: 1000 E 6TH ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 558-1587
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROGER GLAZER
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No

S G ROOFING (Continued) **1000130237**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002771894

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:
Region: STATE
Global Id: T0605999107
Latitude: 33.749322
Longitude: -117.857423
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/19/1999
Lead Agency: SANTA ANA, CITY OF
Case Worker: MIK
Local Agency: SANTA ANA, CITY OF
RB Case Number: 083003690T
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605999107
Contact Type: Local Agency Caseworker
Contact Name: MIKE BUREN
Organization Name: SANTA ANA, CITY OF
Address: Not reported
City: r8 UNKNOWN
Email: Not reported
Phone Number: Not reported

Global Id: T0605999107

S G ROOFING (Continued) **1000130237**

Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rscott@waterboards.ca.gov
Phone Number: 9513206375

Status History:
Global Id: T0605999107
Status: Completed - Case Closed
Status Date: 05/19/1999

Global Id: T0605999107
Status: Open - Case Begin Date
Status Date: 05/19/1999

Regulatory Activities:
Global Id: T0605999107
Action Type: Other
Date: 05/19/1999
Action: Leak Reported

Global Id: T0605999107
Action Type: ENFORCEMENT
Date: 05/19/1999
Action: Closure/No Further Action Letter

SWEEPS UST:
Status: Active
Comp Number: 510
Number: 2
Board Of Equalization: Not reported
Referral Date: 07-21-93
Action Date: 07-21-93
Created Date: 01-19-93
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 510
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000510-000001

S G ROOFING (Continued) **1000130237**

Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	2

Status:	Not reported
Comp Number:	510
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000510-000002
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	EMPTY
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

HAZNET:

envid:	1000130237
Year:	1998
GEPAID:	CAD981999071
Contact:	S G ROOFING
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1000 E 6TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927010000
Gen County:	Not reported
TSD EPA ID:	CAD093459485
TSD County:	Not reported
Waste Category:	Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method:	Transfer Station
Tons:	.1668
Facility County:	Orange

J67 **G.W. MAINTENANCE, INC.** **HIST UST** **U001578090**
NNE **1061 E 6TH ST** **SWEEPS UST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.145 mi.
765 ft. **Site 8 of 8 in cluster J**

Relative:
Higher

Actual:
136 ft.

HIST UST:

Region:	STATE
Facility ID:	00000065051
Facility Type:	Other
Other Type:	COMMERCIAL BUSINESS
Contact Name:	THOMAS STRAIN
Telephone:	7145428726
Owner Name:	G.W. MAINTENANCE, INC.

G.W. MAINTENANCE, INC. (Continued) **U001578090**

Owner Address: 1061 E. 6TH STREET
Owner City,St,Zip: SANTA ANA, CA 92701
Total Tanks: 0003

Tank Num: 001
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: 5
Year Installed: 1985
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 1/4
Leak Detection: Visual, Stock Inventor

SWEEPS UST:
Status: Not reported
Comp Number: 316
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000316-000001
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 316
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

G.W. MAINTENANCE, INC. (Continued) **U001578090**

SWRCB Tank Id:	30-020-000316-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	316
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000316-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	Not reported

O68 **VAN GORKUM I C** **EDR US Hist Auto Stat** **1009123302**
WSW **834 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.153 mi.
809 ft. **Site 1 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

EDR Historical Auto Stations:

Name:	VAN GORKUM I C
Year:	1945
Type:	AUTO REPAIRING

O69 **EDR US Hist Auto Stat** **1015650025**
WSW **829 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.153 mi.
810 ft. **Site 2 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

EDR Historical Auto Stations:

Name:	C & S AUTOMOTIVE
Year:	1999
Address:	829 E 1ST ST
Name:	C & S AUTOMOTIVE
Year:	2001
Address:	829 E 1ST ST
Name:	C & S AUTOMOTIVE
Year:	2002
Address:	829 E 1ST ST

(Continued) **1015650025**

Name: C & S AUTOMOTIVE
Year: 2003
Address: 829 E 1ST ST

Name: CS AUTOMOTIVE INC
Year: 2004
Address: 829 E 1ST ST

Name: CS AUTOMOTIVE INC
Year: 2006
Address: 829 E 1ST ST

Name: CS AUTOMOTIVE INC
Year: 2007
Address: 829 E 1ST ST

Name: CS AUTOMOTIVE INC
Year: 2008
Address: 829 E 1ST ST

Name: C & S AUTOMOTIVE
Year: 2010
Address: 829 E 1ST ST

Name: C & S AUTOMOTIVE INC
Year: 2011
Address: 829 E 1ST ST

Name: C & S AUTOMOTIVE INC
Year: 2012
Address: 829 E 1ST ST

O70 **HEMINGWAYS GARAGE** **RCRA-SQG** **1000257724**
WSW **829 E FIRST** **FINDS** **CAD029364890**
1/8-1/4 **SANTA ANA, CA 92701** **HAZNET**
0.153 mi.
810 ft. **Site 3 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: HEMINGWAYS GARAGE
Facility address: 829 E FIRST
SANTA ANA, CA 92701
EPA ID: CAD029364890
Mailing address: E FIRST
SANTA ANA, CA 92701
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of

HEMINGWAYS GARAGE (Continued) **1000257724**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: WALT HEMINGWAY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002642043

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

HEMINGWAYS GARAGE (Continued) **1000257724**

envid: 1000257724
Year: 1993
GEPAID: CAD029364890
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 829 E 1ST ST
Mailing City,St,Zip: SANTA ANA, CA 927015338
Gen County: Not reported
TSD EPA ID: CAT080025711
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Tons: 0.62549999999
Facility County: Orange

envid: 1000257724
Year: 1993
GEPAID: CAD029364890
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 829 E 1ST ST
Mailing City,St,Zip: SANTA ANA, CA 927015338
Gen County: Not reported
TSD EPA ID: CAD050099696
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Recycler
Tons: 0.50039999999
Facility County: Orange

envid: 1000257724
Year: 1993
GEPAID: CAD029364890
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 829 E 1ST ST
Mailing City,St,Zip: SANTA ANA, CA 927015338
Gen County: Not reported
TSD EPA ID: CAD050099696
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Tons: 0.41699999999
Facility County: Orange

71
East
1/8-1/4
0.155 mi.
820 ft.

1203 E 3RD ST
SANTA ANA, CA 92701

EDR US Hist Auto Stat **1015180902**
N/A

Relative:
Higher

Actual:
133 ft.

EDR Historical Auto Stations:

Name:	VEGAS TIRES & AUTO
Year:	2002
Address:	1203 E 3RD ST
Name:	VEGAS TIRES & AUTO REPAIR
Year:	2003
Address:	1203 E 3RD ST
Name:	VEGAS REGISTRATION
Year:	2004
Address:	1203 E 3RD ST

M72
SSE
1/8-1/4
0.159 mi.
838 ft.

1105 E WALNUT ST
SANTA ANA, CA 92701

Site 2 of 5 in cluster M

EDR US Hist Auto Stat **1015155059**
N/A

Relative:
Lower

Actual:
126 ft.

EDR Historical Auto Stations:

Name:	CARBURETOR REPAIR
Year:	2012
Address:	1105 E WALNUT ST

M73
SSE
1/8-1/4
0.159 mi.
839 ft.

DIAMOND NEWPORT CORP
1107 E WALNUT
SANTA ANA, CA 92701

Site 3 of 5 in cluster M

RCRA-SQG **1001195464**
FINDS **CAR000020438**

Relative:
Lower

Actual:
126 ft.

RCRA-SQG:

Date form received by agency:	06/13/1997
Facility name:	DIAMOND NEWPORT CORP
Facility address:	1107 E WALNUT SANTA ANA, CA 92701
EPA ID:	CAR000020438
Mailing address:	E WALNUT SANTA ANA, CA 92701
Contact:	BRIAN EWRY
Contact address:	1107 E WALNUT SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 835-8306
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

DIAMOND NEWPORT CORP (Continued) **1001195464**

Owner/Operator Summary:
Owner/operator name: RICHARD CRAFT
Owner/operator address: 1107 E WALNUT
SANTA ANA, CA 92701
Owner/operator country: Not reported
Owner/operator telephone: (714) 835-8306
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002917817

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

P74 **G.W. MAINTENANCE, INC** **HIST UST** **U001578089**
NE **1102 E 6TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.159 mi.
841 ft. **Site 1 of 3 in cluster P**

Relative:
Higher

Actual:
136 ft.

HIST UST:

Region:	STATE
Facility ID:	00000065056
Facility Type:	Other
Other Type:	COMMERCIAL BUSINESS
Contact Name:	SHERIDAN L. PROCHNOW
Telephone:	7145428726
Owner Name:	G W MAINTENANCE INC.
Owner Address:	1061 E. 6TH STREET
Owner City,St,Zip:	SANTA ANA, CA 92701
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Visual, Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	1/4
Leak Detection:	Visual, Stock Inventor

O75 **GRAND CENTRAL GARAGE** **EDR US Hist Auto Stat** **1009091186**
WSW **809 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.160 mi.
845 ft. **Site 4 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

EDR Historical Auto Stations:

Name:	GRAND CENTRAL GARAGE
Year:	1945
Type:	AUTO REPAIRING

O76 **EDR US Hist Auto Stat** **1015649394**
WSW **826 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.160 mi.
846 ft. **Site 5 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

EDR Historical Auto Stations:

Name:	JAPANESE MOTORS
Year:	1999
Address:	826 E 1ST ST

(Continued) **1015649394**

Name: JAPANESE MOTORS
Year: 2001
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2002
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2003
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2004
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2005
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2006
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2007
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2008
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2009
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2010
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2011
Address: 826 E 1ST ST

Name: JAPANESE MOTORS
Year: 2012
Address: 826 E 1ST ST

O77 **JAPANESE MTRS** **RCRA-SQG** **1000595849**
WSW **826 E 1ST ST** **FINDS** **CAD983598046**
1/8-1/4 **SANTA ANA, CA 92701**
0.160 mi.
846 ft. **Site 6 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:

Date form received by agency:	07/26/1991
Facility name:	JAPANESE MTRS
Facility address:	826 E 1ST ST SANTA ANA, CA 92701
EPA ID:	CAD983598046
Contact:	RAMIRO LOPEZ
Contact address:	826 E 1ST ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 972-1505
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JAPANESE MTRS
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No

JAPANESE MTRS (Continued) **1000595849**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002855312

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Q78 **EDR US Hist Auto Stat** **1015180601**
SE **1202 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.160 mi.
846 ft. **Site 1 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

EDR Historical Auto Stations:

Name: EL PEPE AUTO REPAIR
Year: 1999
Address: 1202 E 1ST ST

Name: LENS RADIATOR SERVICE
Year: 2001
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2002
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2003
Address: 1202 E 1ST ST

Name: LENS RADIATOR SERVICE
Year: 2004
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2005
Address: 1202 E 1ST ST

Name: MG & T TRANSMISSION

(Continued) **1015180601**

Year: 2006
Address: 1202 E 1ST ST

Name: MG & T TRANSMISSION
Year: 2007
Address: 1202 E 1ST ST

Name: LENS RADIATOR SERVICE
Year: 2008
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2009
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2010
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2011
Address: 1202 E 1ST ST

Name: EL PEPE AUTO REPAIR
Year: 2012
Address: 1202 E 1ST ST

Q79 **M G AND T TRANSMISSION** **RCRA-SQG** **1004675711**
SE **1202 E FIRST ST UNIT C** **FINDS** **CAR000076265**
1/8-1/4 **SANTA ANA, CA 92701**
0.160 mi.
846 ft. **Site 2 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

RCRA-SQG:
Date form received by agency: 06/26/2000
Facility name: M G AND T TRANSMISSION
Facility address: 1202 E FIRST ST UNIT C
SANTA ANA, CA 92701
EPA ID: CAR000076265
Contact: JUAN MUGUIA
Contact address: 1202 E FIRST ST UNIT C
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 662-0639
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: JUAN MUGUIA
Owner/operator address: 1202 E FIRST ST UNIT C
SANTA ANA, CA 92701

M G AND T TRANSMISSION (Continued) **1004675711**

Owner/operator country: Not reported
Owner/operator telephone: (714) 662-0639
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D039
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002939045

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

M80 **EDR US Hist Auto Stat** **1015155327**
SSE **1106 E WALNUT ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.161 mi.
848 ft. **Site 4 of 5 in cluster M**

Relative: **Lower**

Actual: **126 ft.**

EDR Historical Auto Stations:

Name:	TRANSMISSION PARTS SPECIALISTS
Year:	2008
Address:	1106 E WALNUT ST
Name:	TRANSMISSION PARTS SPECIALISTS
Year:	2009
Address:	1106 E WALNUT ST

M81 **EDR US Hist Auto Stat** **1015159634**
SSE **1118 E WALNUT ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.162 mi.
855 ft. **Site 5 of 5 in cluster M**

Relative: **Lower**

Actual: **126 ft.**

EDR Historical Auto Stations:

Name:	TRANSMISSION PARTS SPECIALISTS
Year:	1999
Address:	1118 E WALNUT ST

P82 **EDR US Hist Auto Stat** **1015157483**
NE **1110 E 6TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.162 mi.
858 ft. **Site 2 of 3 in cluster P**

Relative: **Higher**

Actual: **137 ft.**

EDR Historical Auto Stations:

Name:	J & J TRI COLOR AUTO BODY
Year:	1999
Address:	1110 E 6TH ST
Name:	J & J TRI COLOR AUTO BODY
Year:	2001
Address:	1110 E 6TH ST
Name:	J & J TRI COLOR AUTO BODY
Year:	2002
Address:	1110 E 6TH ST
Name:	J & J TRI COLOR AUTO BODY
Year:	2003
Address:	1110 E 6TH ST
Name:	J & J TRI COLOR AUTO BODY
Year:	2004
Address:	1110 E 6TH ST
Name:	J & J TRI COLOR AUTO BODY
Year:	2005
Address:	1110 E 6TH ST
Name:	J & J TRI COLOR AUTO BODY

(Continued) **1015157483**

Year: 2006
Address: 1110 E 6TH ST

Name: J & J TRI COLOR AUTO BODY
Year: 2007
Address: 1110 E 6TH ST

Name: J & J TRI COLOR AUTO BODY
Year: 2008
Address: 1110 E 6TH ST

Name: J & J TRI COLOR AUTO BODY
Year: 2009
Address: 1110 E 6TH ST

Name: J & J TRICOLOR AUTO BODY
Year: 2010
Address: 1110 E 6TH ST

Name: J & J TRI COLOR AUTO BODY
Year: 2011
Address: 1110 E 6TH ST

Name: J & J TRI COLOR AUTO BODY
Year: 2012
Address: 1110 E 6TH ST

R83 **EDR US Hist Auto Stat** **1015181168**
ENE **1204 E 4TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.167 mi.
883 ft. **Site 1 of 3 in cluster R**

Relative:
Higher

Actual:
135 ft.

EDR Historical Auto Stations:

Name: SANTA FE AUTO REPAIR
Year: 1999
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR
Year: 2001
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR
Year: 2002
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR
Year: 2005
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR INC
Year: 2006
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR INC
Year: 2007
Address: 1204 E 4TH ST

(Continued) **1015181168**

Name: SANTA FE AUTO REPAIR INC
Year: 2008
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR INC
Year: 2009
Address: 1204 E 4TH ST

Name: SANTA FE AUTO REPAIR
Year: 2010
Address: 1204 E 4TH ST

Name: SANTA FE AUTO
Year: 2011
Address: 1204 E 4TH ST

Name: SANTA FE AUTO
Year: 2012
Address: 1204 E 4TH ST

Q84 **PHIL'S CUSTOM PLATING** **CA BOND EXP. PLAN** **S100833530**
SE **1214 WEST 1ST STREET** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.168 mi.
887 ft. **Site 3 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

CA BOND EXP. PLAN:
Reponsible Party: BACKLOG SITE CLEANUP PLANNING REPORT
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported
Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc: This site is projected for cleanup funded by responsible parties with reimbursement to DHS for staff and related costs. However, if the responsible parties fail to provide funding for cleanup, another source of funds will need to be established.
Site Description: This site was a metals plating shop which improperly stored plating wastes.
Hazardous Waste Desc: Heavy metals were stored onsite for long periods of time. The containers deteriorated and wastes were spilled on the pavement and the ground. Wastes may also include cyanide and corrosive materials. The wastes are potentially toxic and may be corrosive upon direct contact.
Threat To Public Health & Env: Although, the site is closed, there is potential for direct contact. Dissolved metals may migrate through the soil and into the ground water.
Site Activity Status: The Orange County Health Department has taken action to remove drummed materials and soil contamination from the site. There is residual contamination of the pavement and probably the soil.

Q85 **EDR US Hist Auto Stat** **1015157096**
SE **111 S HATHAWAY ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.169 mi.
892 ft. **Site 4 of 8 in cluster Q**

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:
Name: THORNTON AUTO UPHOLSTERY
Year: 2001
Address: 111 S HATHAWAY ST

(Continued) **1015157096**

Name: THORNTON AUTO UPHOLSTERY
Year: 2002
Address: 111 S HATHAWAY ST

Name: THORNTON AUTO UPHOLSTERY
Year: 2003
Address: 111 S HATHAWAY ST

Name: THORNTON AUTO UPHOLSTERY
Year: 2004
Address: 111 S HATHAWAY ST

Name: THORNTON AUTO UPHOLSTERY
Year: 2008
Address: 111 S HATHAWAY ST

Name: THORNTON AUTO UPHOLSTERY
Year: 2010
Address: 111 S HATHAWAY ST

Name: THORNTON AUTO UPHOLSTERY
Year: 2011
Address: 111 S HATHAWAY ST

Name: THORNTON AUTO UPHOLSTERY
Year: 2012
Address: 111 S HATHAWAY ST

O86 **EDR US Hist Auto Stat** **1015645807**
WSW **816 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.169 mi.
893 ft. **Site 7 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

EDR Historical Auto Stations:

Name: KOOS BODY SHOP
Year: 1999
Address: 816 E 1ST ST

Name: JP AUTO BODY & REPAIR
Year: 2001
Address: 816 E 1ST ST

Name: JP AUTO BODY & REPAIR
Year: 2002
Address: 816 E 1ST ST

Name: JP AUTOBODY REPAIR
Year: 2003
Address: 816 E 1ST ST

Name: ROLLIN AUTO & COLLISION CTR
Year: 2004
Address: 816 E 1ST ST

Name: ROLLIN AUTO & COLLISION CENTER
Year: 2005
Address: 816 E 1ST ST

(Continued) **1015645807**

Name: ROLLIN AUTO & COLLISION CENTER
Year: 2006
Address: 816 E 1ST ST

Name: ROLLIN AUTO & COLLISION CENTER
Year: 2007
Address: 816 E 1ST ST

Name: ROLLIN AUTO & COLLISION CENTER
Year: 2008
Address: 816 E 1ST ST

Name: OSCAR AUTO REPAIR SHOP
Year: 2010
Address: 816 E 1ST ST

S87 **MODEL LAUNDRY** **EDR US Hist Cleaners** **1009198207**
NW **901 E 5TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.170 mi.
900 ft. **Site 1 of 5 in cluster S**

Relative:
Lower

Actual:
129 ft.

EDR Historical Cleaners:

Name: MODEL LAUNDRY
Year: 1920
Type: LAUNDRIES

Name: MODEL LAUNDRY
Year: 1921
Type: LAUNDRIES

Name: MODEL LAUNDRY AND ZORIC CLEANING CO
Year: 1945
Type: LAUNDRIES

S88 **ADRAIN AL** **EDR US Hist Auto Stat** **1009093003**
NW **902 W 5TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.171 mi.
904 ft. **Site 2 of 5 in cluster S**

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:

Name: ADRAIN AL
Year: 1936
Type: AUTO SERVICE STATIONS

S89 **PACE & HALE** **EDR US Hist Auto Stat** **1009091284**
NW **902 W 5TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.172 mi.
910 ft. **Site 3 of 5 in cluster S**

Relative:
Lower

Actual:
129 ft.

EDR Historical Auto Stations:
Name: PACE & HALE
Year: 1945
Type: AUTO SERVICE STATIONS

S90 **MODEL LAUNDRY CO** **EDR US Hist Cleaners** **1009196943**
NW **901 E 5TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.173 mi.
912 ft. **Site 4 of 5 in cluster S**

Relative:
Lower

Actual:
129 ft.

EDR Historical Cleaners:
Name: MODEL LAUNDRY CO
Year: 1936
Type: LAUNDRIES

S91 **MODEL LAUNDRY** **EDR US Hist Cleaners** **1009196484**
NW **901 E 5TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.173 mi.
912 ft. **Site 5 of 5 in cluster S**

Relative:
Lower

Actual:
129 ft.

EDR Historical Cleaners:
Name: MODEL LAUNDRY
Year: 1925
Type: LAUNDRIES

Q92 **EDR US Hist Auto Stat** **1015186881**
ESE **1222 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.173 mi.
914 ft. **Site 5 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

EDR Historical Auto Stations:
Name: NH LOC ARCO AM
Year: 2003
Address: 1222 E 1ST ST

Name: NH LOC ARCO AM
Year: 2004
Address: 1222 E 1ST ST

Name: H N ARCO AM PM MINI MARKET
Year: 2006
Address: 1222 E 1ST ST

Name: ARCO GAS STATION
Year: 2007
Address: 1222 E 1ST ST

Name: ARCO STATION

(Continued) **1015186881**

Year: 2008
Address: 1222 E 1ST ST

Name: ARCO STATION
Year: 2009
Address: 1222 E 1ST ST

Q93 **ARCO 6085** **UST** **U003781983**
ESE **1222 E. 1ST ST.** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.173 mi.
914 ft. **Site 6 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

UST:
Facility ID: 30-020-sa256
Permitting Agency: SANTA ANA, CITY OF
Latitude: 33.7464438
Longitude: -117.8509616

ORANGE CO. UST:
Facility ID: FA0061982

Q94 **TONY K SHOBEIRI** **LUST** **U001577627**
ESE **1222 E 1ST ST** **HIST UST** **N/A**
1/8-1/4 **SANTA ANA, CA 92667** **SWEEPS UST**
0.173 mi.
914 ft. **Site 7 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

LUST:
Region: STATE
Global Id: T0605901601
Latitude: 33.745125
Longitude: -117.852176
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/24/2002
Lead Agency: SANTA ANA, CITY OF
Case Worker: CC
Local Agency: SANTA ANA, CITY OF
RB Case Number: 083002162T
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605901601
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org

TONY K SHOBEIRI (Continued) **U001577627**

Phone Number: Not reported

Global Id: T0605901601
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: vjahn-bull@waterboards.ca.gov
Phone Number: 9517824903

Status History:
Global Id: T0605901601
Status: Open - Case Begin Date
Status Date: 12/20/1991

Global Id: T0605901601
Status: Completed - Case Closed
Status Date: 06/24/2002

Regulatory Activities:
Global Id: T0605901601
Action Type: ENFORCEMENT
Date: 03/15/2002
Action: Staff Letter

Global Id: T0605901601
Action Type: ENFORCEMENT
Date: 06/24/2002
Action: Closure/No Further Action Letter

Global Id: T0605901601
Action Type: Other
Date: 10/15/1992
Action: Leak Reported

Global Id: T0605901601
Action Type: Other
Date: 12/20/1991
Action: Leak Discovery

HIST UST:
Region: STATE
Facility ID: 00000026849
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0005

Tank Num: 001
Container Num: 0000000001

TONY K SHOBEIRI (Continued) **U001577627**

Year Installed:	1973
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	002
Container Num:	0000000002
Year Installed:	1970
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	0000000003
Year Installed:	1970
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	0000000004
Year Installed:	1970
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	0000240
Leak Detection:	Stock Inventor, 10

Tank Num:	005
Container Num:	0000000005
Year Installed:	1970
Tank Capacity:	00000780
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	0000123
Leak Detection:	Stock Inventor

SWEEPS UST:

Status:	Active
Comp Number:	256
Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-15-93
Action Date:	07-15-93
Created Date:	07-31-88
Owner Tank Id:	1
SWRCB Tank Id:	30-020-000256-000001
Tank Status:	A
Capacity:	6000
Active Date:	07-01-85
Tank Use:	M.V. FUEL

TONY K SHOBEIRI (Continued) **U001577627**

STG: P
Content: REG UNLEADED
Number Of Tanks: 5

Status: Active
Comp Number: 256
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-15-93
Action Date: 07-15-93
Created Date: 07-31-88
Owner Tank Id: 2
SWRCB Tank Id: 30-020-000256-000002
Tank Status: A
Capacity: 6000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 256
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-15-93
Action Date: 07-15-93
Created Date: 07-31-88
Owner Tank Id: 3
SWRCB Tank Id: 30-020-000256-000003
Tank Status: A
Capacity: 6000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 256
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-15-93
Action Date: 07-15-93
Created Date: 07-31-88
Owner Tank Id: 4
SWRCB Tank Id: 30-020-000256-000004
Tank Status: A
Capacity: 6000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 256

TONY K SHOBEIRI (Continued) **U001577627**

Number:	9
Board Of Equalization:	Not reported
Referral Date:	07-15-93
Action Date:	07-15-93
Created Date:	07-31-88
Owner Tank Id:	5
SWRCB Tank Id:	30-020-000256-000005
Tank Status:	A
Capacity:	780
Active Date:	07-01-85
Tank Use:	OIL
STG:	W
Content:	WASTE OIL
Number Of Tanks:	Not reported

Q95 **ARCO #6085** **LUST** **S105960702**
ESE **1222 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.173 mi.
914 ft. **Site 8 of 8 in cluster Q**

Relative:
Lower

Actual:
130 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083002162T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	GRAND
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605901601
How Stopped Date:	Not reported
Enter Date:	12/28/1992
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/20/1991
Enforcement Date:	Not reported
Close Date:	6/24/2002
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	1/1/1965
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/28/1992
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported

ARCO #6085 (Continued) **S105960702**

Oversite Program:	LUST
Latitude:	33.74516155
Longitude:	-117.8523852
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

T96 **BRUCE METAL AND SALVAGE INC** **NPDES S107136741**
NW **920 E 6TH ST** **SWRCY N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.173 mi.
916 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
131 ft.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	208633
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 30I007365
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/06/1993
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/25/2012
Discharge Name:	Bruce Metal & Sal Inc
Discharge Address:	920 E 6th St
Discharge City:	Santa Ana
Discharge State:	California
Discharge Zip:	92701

Npdes Number:	Not reported
Facility Status:	Active
Agency Id:	0
Region:	8
Regulatory Measure Id:	427183
Order No:	Not reported
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 30MR000029
Program Type:	Region 8 - Scrap Metal Permit

BRUCE METAL AND SALVAGE INC (Continued) **S107136741**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/25/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Bruce Metal & Salvage Inc
Discharge Address:	920 East 6th Street
Discharge City:	Santa Ana
Discharge State:	California
Discharge Zip:	92701

SWRCY:

Reg Id:	19156
Cert Id:	RC2600
Mailing Address:	920 E 6th St
Mailing City:	Santa Ana
Mailing State:	CA
Mailing Zip Code:	92701
Website:	Not reported
Email:	Not reported
Phone Number:	(714) 543-1300
Grand Father:	Y
Rural:	N
Operation Begin Date:	09/28/1988
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 4:45 pm
Tuesday Hours Of Operation:	8:00 am - 4:45 pm
Wednesday Hours Of Operation:	8:00 am - 4:45 pm
Thursday Hours Of Operation:	8:00 am - 4:45 pm
Friday Hours Of Operation:	8:00 am - 4:45 pm
Saturday Hours Of Operation:	8:00 am - 4:45 pm
Sunday Hours Of Operation:	8:00 am - 4:45 pm
Organization ID:	19156
Organization Name:	Bruce Metal and Salvage Inc

O97 **1ST AUTO BODY** **RCRA-SQG 1000233091**
WSW **806 E 1ST ST** **FINDS CAD980888325**
1/8-1/4 **SANTA ANA, CA 92701**
0.174 mi.
918 ft. **Site 8 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:

Date form received by agency:	06/01/1993
Facility name:	1ST AUTO BODY
Facility address:	806 E 1ST ST SANTA ANA, CA 92701
EPA ID:	CAD980888325
Mailing address:	E FIRST ST SANTA ANA, CA 92701
Contact:	ALEX HARTE
Contact address:	806 E FIRST ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 972-8261

1ST AUTO BODY (Continued) **1000233091**

Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ALEX HARTE
Owner/operator address: 806 E 1ST ST
SANTA ANA, CA 92701
Owner/operator country: Not reported
Owner/operator telephone: (714) 972-8261
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002674954

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

O98 **EDR US Hist Auto Stat** **1015641543**
WSW **806 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.174 mi.
918 ft. **Site 9 of 10 in cluster O**

Relative:
Lower

Actual:
124 ft.

EDR Historical Auto Stations:

Name:	URUAPAN BODY SHOP
Year:	2001
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2002
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2003
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2004
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2005
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2006
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2007
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2008
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2009
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2010
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2011
Address:	806 E 1ST ST
Name:	URUAPAN BODY SHOP
Year:	2012
Address:	806 E 1ST ST

P99 **G.W. MAINTENANCE, INC.** **CA FID UST** **S101619734**
NNE **1061 E 006TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.174 mi.
921 ft. **Site 3 of 3 in cluster P**

Relative:
Higher

Actual:
137 ft.

CA FID UST:

Facility ID:	30017891
Regulated By:	UTNKA
Regulated ID:	00065051
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7145428726
Mail To:	Not reported
Mailing Address:	1101 E 006TH ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SANTA ANA 92701
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

R100 **HARKENDORFF C W** **EDR US Hist Auto Stat** **1009092848**
ENE **1222 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.177 mi.
936 ft. **Site 2 of 3 in cluster R**

Relative:
Higher

Actual:
135 ft.

EDR Historical Auto Stations:

Name:	HARKENDORFF C W
Year:	1936
Type:	AUTO SERVICE STATIONS

O101 **EDR US Hist Auto Stat** **1015168391**
SW **115 S HALLADAY ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.177 mi.
937 ft. **Site 10 of 10 in cluster O**

Relative:
Lower

Actual:
123 ft.

EDR Historical Auto Stations:

Name:	ROLLIN AUTO & COLLISION CENTER
Year:	2009
Address:	115 S HALLADAY ST

T102 **SANTIAGO AVENUE AND 6TH STREET** **SCH** **S107737293**
NNW **609 POINSETTIA STREET** **ENVIROSTOR** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.178 mi.
939 ft. **Site 2 of 2 in cluster T**

Relative:
Higher

Actual:
132 ft.

SCH:

Facility ID:	60000017
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404168
Assembly:	69
Senate:	34
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	02/07/2001
Restricted Use:	NO
Funding:	School District
Latitude:	33.75012
Longitude:	-117.8580
APN:	NONE SPECIFIED
Past Use:	* UNKNOWN
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SANTA ANA USD-SANTIAGO AVE & 6TH STREET
Alias Type:	Alternate Name
Alias Name:	404168
Alias Type:	Project Code (Site Code)
Alias Name:	60000017
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/07/2001
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SANTIAGO AVENUE AND 6TH STREET (Continued) **S107737293**

ENVIROSTOR:

Facility ID:	60000017
Status:	Inactive - Needs Evaluation
Status Date:	02/07/2001
Site Code:	404168
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	69
Senate:	34
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.75012
Longitude:	-117.8580
APN:	NONE SPECIFIED
Past Use:	* UNKNOWN
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SANTA ANA USD-SANTIAGO AVE & 6TH STREET
Alias Type:	Alternate Name
Alias Name:	404168
Alias Type:	Project Code (Site Code)
Alias Name:	60000017
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/07/2001
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

R103 **EDR US Hist Auto Stat** **1009093758**
ENE **1222 E 4TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.178 mi.
940 ft. **Site 3 of 3 in cluster R**

Relative: EDR Historical Auto Stations:
Higher

Name:	HARKENDORFF CATH
Year:	1945
Type:	AUTO SERVICE STATIONS

Actual:
135 ft.

Name:	JIM DICKENS TIRE & AUTOMOTIVE
Year:	1999
Address:	1222 E 4TH ST

Name:	JIM DICKENS TIRE & AUTOMOTIVE
Year:	2001
Address:	1222 E 4TH ST

Name:	JIM DICKENS TIRE & AUTOMOTIVE
Year:	2007
Address:	1222 E 4TH ST

Name:	JIM DICKENS TIRE & AUTOMOTIVE
Year:	2008
Address:	1222 E 4TH ST

Name:	TEST ONLY STATION
Year:	2010
Address:	1222 E 4TH ST

Name:	TEST ONLY STATION
Year:	2011
Address:	1222 E 4TH ST

Name:	TEST ONLY STATION
Year:	2012
Address:	1222 E 4TH ST

U104 **MAIZE A W** **EDR US Hist Auto Stat** **1009094323**
WNW **825 E 4TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.184 mi.
974 ft. **Site 1 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower

Name:	MAIZE A W
Year:	1945
Type:	AUTO SERVICE STATIONS

Actual:
127 ft.

U105 **DECKER J W** **EDR US Hist Auto Stat** **1009095259**
WNW **825 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.184 mi.
974 ft. **Site 2 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower
Name: DECKER J W
Year: 1936
Actual: Type: AUTO SERVICE STATIONS
127 ft.

U106 **STANDARD OIL CO** **EDR US Hist Auto Stat** **1009093722**
WNW **825 E 4TH ST** **N/A**
1/8-1/4 **ORANGE COUNTY, CA**
0.184 mi.
974 ft. **Site 3 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower
Name: STANDARD OIL CO
Year: 1925
Actual: Type: SERVICE STATIONS
127 ft.

V107 **EDR US Hist Auto Stat** **1015650027**
WSW **829 E 2ND ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.185 mi.
977 ft. **Site 1 of 3 in cluster V**

Relative: EDR Historical Auto Stations:
Lower
Name: GENESIS MOTORS
Year: 1999
Actual: Address: 829 E 2ND ST
125 ft.

Name: GENESIS CUSTOM MOTORS
Year: 2001
Address: 829 E 2ND ST

Name: GENESIS CUSTOM MOTORS
Year: 2003
Address: 829 E 2ND ST

Name: GENESIS CUSTOM MOTORS
Year: 2004
Address: 829 E 2ND ST

Name: RUBENS AUTO GLASS
Year: 2007
Address: 829 E 2ND ST

Name: GENESIS CUSTOM MOTORS
Year: 2009
Address: 829 E 2ND ST

Name: GENESIS MOTORS
Year: 2010
Address: 829 E 2ND ST

Name: GENESIS MOTORS

(Continued) **1015650027**

Year: 2011
Address: 829 E 2ND ST

Name: GENESIS MOTORS
Year: 2012
Address: 829 E 2ND ST

W108 **GLOBAL METAL RECYCLING** **NPDES S107137054**
South **1011 E PINE ST** **SWRCY N/A**
1/8-1/4 **SANTA ANA, CA 92705**
0.188 mi.
991 ft. **Site 1 of 2 in cluster W**

Relative:
Lower

Actual:
122 ft.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	209233
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 30I019080
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/05/2004
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/16/2012
Discharge Name:	Global Metal Recycling
Discharge Address:	1901 Carnegie Ave
Discharge City:	Santa Ana
Discharge State:	California
Discharge Zip:	92705

SWRCY:

Reg Id:	25846
Cert Id:	RC11735
Mailing Address:	P O Box 11849
Mailing City:	Santa Ana
Mailing State:	CA
Mailing Zip Code:	92711
Website:	Not reported
Email:	Not reported
Phone Number:	(714) 542-9530
Grand Father:	N
Rural:	N
Operation Begin Date:	08/16/2003
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 4:00 pm
Tuesday Hours Of Operation:	8:00 am - 4:00 pm
Wednesday Hours Of Operation:	8:00 am - 4:00 pm
Thursday Hours Of Operation:	8:00 am - 4:00 pm
Friday Hours Of Operation:	8:00 am - 4:00 pm

GLOBAL METAL RECYCLING (Continued) **S107137054**

Saturday Hours Of Operation: 8:00 am - 4:00 pm
Sunday Hours Of Operation: CLOSED
Organization ID: 18633
Organization Name: Global Metal Recycling

109
South
1/8-1/4
0.190 mi.
1001 ft.

EMERSON ELECTRONICS **SLIC** **S108542954**
300 S STANDARD STREET **N/A**
SANTA ANA, CA

Relative:
Lower

Actual:
121 ft.

SLIC REG 8:
Type: Soil and Groundwater
Facility Status: Closed
Staff: XXX
Substance: SOLVENTS
Lead Agency: Regional Board
Location Code: SA-33
Thomas Bros Code: Not reported

W110
South
1/8-1/4
0.190 mi.
1002 ft.

B & F INDUSTRIES INC **RCRA-CESQG** **1004675373**
1014 EAST PINE STREET **FINDS** **CAD981568728**
SANTA ANA, CA 92701

Site 2 of 2 in cluster W

Relative:
Lower

Actual:
122 ft.

RCRA-CESQG:
Date form received by agency: 08/27/1986
Facility name: B & F INDUSTRIES INC
Facility address: 1014 EAST PINE STREET
SANTA ANA, CA 92701
EPA ID: CAD981568728
Mailing address: EAST PINE STREET
SANTA ANA, CA 92701
Contact: ENVIRONMENTAL MANAGER
Contact address: 1014 EAST PINE STREET
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 972-1556
Contact email: Not reported
EPA Region: 09
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

B & F INDUSTRIES INC (Continued) **1004675373**

Owner/Operator Summary:

Owner/operator name:	THOMAS ROBERT
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002716865

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

U111
WNW
1/8-1/4
0.191 mi.
1011 ft.

818 E 4TH ST
SANTA ANA, CA 92701

Site 4 of 13 in cluster U

EDR US Hist Auto Stat **1015646392**
N/A

Relative:
Lower

Actual:
127 ft.

EDR Historical Auto Stations:

Name:	WESTECH AUTOMOTIVE
Year:	1999
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2001
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2002
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2003
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2004
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2005
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2006
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2007
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2008
Address:	818 E 4TH ST
Name:	WESTECH AUTOMOTIVE
Year:	2009
Address:	818 E 4TH ST

U112
WNW
1/8-1/4
0.191 mi.
1011 ft.

HEMINGWAYS GARAGE
818 E FOURTH ST
SANTA ANA, CA 92701

Site 5 of 13 in cluster U

RCRA-SQG **1000905327**
FINDS **CA0000483818**
HAZNET

Relative:
Lower

Actual:
127 ft.

RCRA-SQG:

Date form received by agency:	07/06/1994
Facility name:	HEMINGWAYS GARAGE
Facility address:	818 E FOURTH ST SANTA ANA, CA 92701
EPA ID:	CA0000483818
Mailing address:	E FOURTH ST

HEMINGWAYS GARAGE (Continued) **1000905327**

SANTA ANA, CA 92701
Contact: WALT HEMINGWAY
Contact address: 818 E FOURTH ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 543-8093
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: WALT HEMINGWAY
Owner/operator address: 6762 JONATHAN
CYPRESS, CA 90630
Owner/operator country: Not reported
Owner/operator telephone: (714) 827-6211
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002618720

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

HEMINGWAYS GARAGE (Continued) **1000905327**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1000905327
Year:	2001
GEPAID:	CA0000483818
Contact:	WALT HEMINGWAY
Telephone:	7148276211
Mailing Name:	Not reported
Mailing Address:	818 E 4TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927010000
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.69
Facility County:	Orange

envid:	1000905327
Year:	2000
GEPAID:	CA0000483818
Contact:	WALT HEMINGWAY
Telephone:	7148276211
Mailing Name:	Not reported
Mailing Address:	818 E 4TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927010000
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.63
Facility County:	Orange

envid:	1000905327
Year:	1999
GEPAID:	CA0000483818
Contact:	WALT HEMINGWAY
Telephone:	7148276211
Mailing Name:	Not reported
Mailing Address:	818 E 4TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927010000
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	.1834
Facility County:	Orange

envid:	1000905327
Year:	1998

HEMINGWAYS GARAGE (Continued) **1000905327**

GEPAID: CA0000483818
Contact: WALT HEMINGWAY
Telephone: 7148276211
Mailing Name: Not reported
Mailing Address: 818 E 4TH ST
Mailing City,St,Zip: SANTA ANA, CA 927010000
Gen County: Not reported
TSD EPA ID: CAD093459485
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Transfer Station
Tons: .0166
Facility County: Orange

envid: 1000905327
Year: 1995
GEPAID: CA0000483818
Contact: WALT HEMINGWAY
Telephone: 7148276211
Mailing Name: Not reported
Mailing Address: 818 E 4TH ST
Mailing City,St,Zip: SANTA ANA, CA 927010000
Gen County: Not reported
TSD EPA ID: CAD093459485
TSD County: Not reported
Waste Category: Unspecified solvent mixture
Disposal Method: Transfer Station
Tons: .0332
Facility County: Orange

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

U113 **PRESTIGE AUTO BODY & PAINT** **RCRA-SQG 1000388909**
WNW **809 3 4TH ST** **FINDS CAD981980170**
1/8-1/4 **SANTA ANA, CA 92701**
0.192 mi.
1012 ft. **Site 6 of 13 in cluster U**

Relative:
Lower

Actual:
127 ft.

RCRA-SQG:
Date form received by agency: 04/13/1987
Facility name: PRESTIGE AUTO BODY & PAINT
Facility address: 809 3 4TH ST
SANTA ANA, CA 92701
EPA ID: CAD981980170
Mailing address: 809 E FOURTH ST
SANTA ANA, CA 92701
Contact: ENVIRONMENTAL MANAGER
Contact address: 809 3 4TH ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 542-7217
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous

PRESTIGE AUTO BODY & PAINT (Continued) **1000388909**

waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MONIGA GALLARDO
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002763304

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

U114 **BALLARD S SERVICE STATION** **EDR US Hist Auto Stat** **1009095472**
WNW **817 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.195 mi.
1029 ft. **Site 7 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower Name: BALLARD S SERVICE STATION
Year: 1925
Actual: Type: SERVICE STATIONS
127 ft.

U115 **SPECK A R** **EDR US Hist Auto Stat** **1009093475**
WNW **817 E 4TH ST** **N/A**
1/8-1/4 **ORANGE COUNTY, CA**
0.195 mi.
1029 ft. **Site 8 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower Name: SPECK A R
Year: 1930
Actual: Type: AUTO REPAIRING
127 ft.

U116 **KITTELSEN A O** **EDR US Hist Auto Stat** **1009092943**
WNW **817 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.195 mi.
1029 ft. **Site 9 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower Name: KITTELSEN A O
Year: 1936
Actual: Type: AUTO SERVICE STATIONS
127 ft.

U117 **LEIHY O A TUSTIN MORRISON F H** **EDR US Hist Auto Stat** **1009093634**
WNW **809 E 4TH ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.203 mi.
1072 ft. **Site 10 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower Name: LEIHY O A TUSTIN MORRISON F H
Year: 1921
Actual: Type: AUTOMOBILE REPAIRERS
127 ft.

U118 **SQUARE DEAL AUTO REPAIR SHOP** **EDR US Hist Auto Stat** **1009095461**
WNW **809 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.205 mi.
1080 ft. **Site 11 of 13 in cluster U**

Relative: EDR Historical Auto Stations:
Lower Name: SQUARE DEAL AUTO REPAIR SHOP
Year: 1925
Actual: Type: AUTOMOBILE REPAIRING
127 ft.

U119 **RHINES EUGENE** **EDR US Hist Auto Stat** **1009093609**
WNW **809 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.205 mi.
1080 ft. **Site 12 of 13 in cluster U**

Relative:
Lower

Actual:
127 ft.

EDR Historical Auto Stations:
Name: RHINES EUGENE
Year: 1936
Type: AUTO REPAIRING

X120 **EDR US Hist Auto Stat** **1015180624**
SE **1202 E WALNUT ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.213 mi.
1122 ft. **Site 1 of 3 in cluster X**

Relative:
Lower

Actual:
127 ft.

EDR Historical Auto Stations:
Name: TRANSMISSION PARTS OPERATION
Year: 1999
Address: 1202 E WALNUT ST

Name: STEPS AUTO
Year: 2008
Address: 1202 E WALNUT ST

Name: STEPS AUTO
Year: 2009
Address: 1202 E WALNUT ST

Name: STEPS AUTO
Year: 2010
Address: 1202 E WALNUT ST

Name: STEPS AUTO
Year: 2011
Address: 1202 E WALNUT ST

X121 **EDR US Hist Cleaners** **1014981578**
SE **1202 E WALNUT ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.213 mi.
1122 ft. **Site 2 of 3 in cluster X**

Relative:
Lower

Actual:
127 ft.

EDR Historical Cleaners:
Name: LIDO CLEANERS
Year: 2002
Address: 1202 E WALNUT ST

Y122 **AMERICAN CONCRETE CUTTING INC** **SWEEPS UST** **S100179554**
NNW **620 POINSETTIA** **Notify 65** **N/A**
1/8-1/4 **SANTA ANA, CA 92701** **EMI**
0.213 mi.
1122 ft. **Site 1 of 4 in cluster Y**

Relative:
Higher

Actual:
132 ft.

SWEEPS UST:

Status:	Active
Comp Number:	362
Number:	1
Board Of Equalization:	Not reported
Referral Date:	07-16-93
Action Date:	07-16-93
Created Date:	03-03-92
Owner Tank Id:	1
SWRCB Tank Id:	30-020-000362-000001
Tank Status:	A
Capacity:	5000
Active Date:	03-03-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	2

Status:	Active
Comp Number:	362
Number:	1
Board Of Equalization:	Not reported
Referral Date:	07-16-93
Action Date:	07-16-93
Created Date:	03-03-92
Owner Tank Id:	2
SWRCB Tank Id:	30-020-000362-000002
Tank Status:	A
Capacity:	5000
Active Date:	03-03-92
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	90603

EMI:

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	76178
Air District Name:	SC
SIC Code:	1795
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

AMERICAN CONCRETE CUTTING INC (Continued) **S100179554**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1993
County Code:	30
Air Basin:	SC
Facility ID:	76178
Air District Name:	SC
SIC Code:	1795
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1995
County Code:	30
Air Basin:	SC
Facility ID:	76178
Air District Name:	SC
SIC Code:	1795
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Y123 **AMERICAN CONCRETE CUTTING, INC.** **UST** **U003781921**
NNW **620 POINSETTIA ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.213 mi.
1122 ft. **Site 2 of 4 in cluster Y**

Relative:
Higher

Actual:
132 ft.

UST:

Facility ID:	30-020-SA362
Permitting Agency:	SANTA ANA, CITY OF
Latitude:	33.7517345
Longitude:	-117.8572464

Y124 **AMERICAN DEMOLITION** **LUST** **S107472833**
NNW **620 N POINSETTIA ST** **HAZNET** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.213 mi.
1122 ft. **Site 3 of 4 in cluster Y**

Relative:
Higher

Actual:
132 ft.

LUST:

Region:	STATE
Global Id:	T0605913632
Latitude:	33.750355
Longitude:	-117.858608
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/05/2005
Lead Agency:	SANTA ANA, CITY OF
Case Worker:	CC
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605913632
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Global Id:	T0605913632
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	cbernhardt@waterboards.ca.gov
Phone Number:	9517824495

Status History:

Global Id:	T0605913632
Status:	Open - Case Begin Date
Status Date:	02/01/2005

Global Id:	T0605913632
Status:	Open - Site Assessment
Status Date:	02/01/2005

Global Id:	T0605913632
Status:	Completed - Case Closed
Status Date:	07/05/2005

AMERICAN DEMOLITION (Continued) **S107472833**

Regulatory Activities:

Global Id:	T0605913632
Action Type:	ENFORCEMENT
Date:	07/05/2005
Action:	Closure/No Further Action Letter
Global Id:	T0605913632
Action Type:	Other
Date:	02/01/2005
Action:	Leak Reported
Global Id:	T0605913632
Action Type:	Other
Date:	02/01/2005
Action:	Leak Discovery
Global Id:	T0605913632
Action Type:	REMEDIATION
Date:	02/01/2002
Action:	Excavation

HAZNET:

envid:	S107472833
Year:	2013
GEPAID:	CAC002735833
Contact:	KIM RIKER
Telephone:	9493511674
Mailing Name:	Not reported
Mailing Address:	919 E 6TH ST
Mailing City,St,Zip:	SANTA ANA, CA 927014725
Gen County:	Orange
TSD EPA ID:	ARZ000501510
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1251
Facility County:	Not reported

V125 **MENCHACA AUTO RPR** **RCRA-SQG** **1000595843**
WSW **120 N LACY** **FINDS** **CAD983597980**
1/8-1/4 **SANTA ANA, CA 92701** **HAZNET**
0.216 mi.
1138 ft. **Site 2 of 3 in cluster V**

Relative:
Lower

Actual:
123 ft.

RCRA-SQG:

Date form received by agency:	07/26/1991
Facility name:	MENCHACA AUTO RPR
Facility address:	120 N LACY SANTA ANA, CA 92701
EPA ID:	CAD983597980
Mailing address:	N LACY SANTA ANA, CA 92701
Contact:	JOSE MENCHACA
Contact address:	120 N LACY SANTA ANA, CA 92701

MENCHACA AUTO RPR (Continued) **1000595843**

Contact country: US
Contact telephone: (714) 555-1212
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: MENCHACA AUTO RPR
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002855250

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART)

MENCHACA AUTO RPR (Continued) **1000595843**

provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1000595843
Year:	2001
GEPAID:	CAD983597980
Contact:	MANUEL MENCHACA - OWNER
Telephone:	7149729132
Mailing Name:	Not reported
Mailing Address:	120 N LACY ST
Mailing City,St,Zip:	SANTA ANA, CA 927015307
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.4
Facility County:	Orange

envid:	1000595843
Year:	2000
GEPAID:	CAD983597980
Contact:	MANUEL MENCHACA - OWNER
Telephone:	7149729132
Mailing Name:	Not reported
Mailing Address:	120 N LACY ST
Mailing City,St,Zip:	SANTA ANA, CA 927015307
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.15
Facility County:	Orange

envid:	1000595843
Year:	1999
GEPAID:	CAD983597980
Contact:	MANUEL MENCHACA
Telephone:	7149729132
Mailing Name:	Not reported
Mailing Address:	120 N LACY ST
Mailing City,St,Zip:	SANTA ANA, CA 927015307
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent

MENCHACA AUTO RPR (Continued) **1000595843**

Disposal Method: Transfer Station
Tons: .4587
Facility County: Orange

V126 **EDR US Hist Auto Stat** **1015178667**
WSW **120 N LACY ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.216 mi.
1138 ft. **Site 3 of 3 in cluster V**

Relative:
Lower

Actual:
123 ft.

EDR Historical Auto Stations:

Name: MENCHACA AUTO REPAIR
Year: 1999
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2001
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2002
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2003
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2004
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2005
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2006
Address: 120 N LACY ST

Name: MENCHACA AUTO REPAIR
Year: 2007
Address: 120 N LACY ST

Name: SANTA ANA AUTO REPAIR INC
Year: 2010
Address: 120 N LACY ST

Name: SANTA ANA AUTO
Year: 2011
Address: 120 N LACY ST

Name: SANTA ANA AUTO
Year: 2012
Address: 120 N LACY ST

Z127 **STATON A LEE** **EDR US Hist Auto Stat** **1009091425**
WSW **718 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.217 mi.
1148 ft. **Site 1 of 2 in cluster Z**

Relative: **Lower**

Actual: **123 ft.**

EDR Historical Auto Stations:

Name:	STATON A LEE
Year:	1945
Type:	AUTO SERVICE STATIONS

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128 **ARCO - AM/PM MINIMARKET #** **HIST CORTESE** **S101307861**
ESE **1222** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.219 mi.
1158 ft.

Relative: **Higher**

Actual: **132 ft.**

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002162T

AA129 **THRIFTY OIL #377/ ARCO #7741** **LUST** **S103943624**
East **324 GRAND AVE** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.223 mi.
1177 ft. **Site 1 of 14 in cluster AA**

Relative: **Higher**

Actual: **134 ft.**

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Preliminary site assessment workplan submitted
Case Number:	083002247T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	CHESTNUT
Enf Type:	SEL
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0605901646
How Stopped Date:	2/17/1993
Enter Date:	6/21/1993
Date Confirmation of Leak Began:	5/1/1997
Date Preliminary Assessment Began:	Not reported
Discover Date:	2/17/1993
Enforcement Date:	11/2/1999
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	1/1/1965
Date Pollution Characterization Began:	10/23/2003
Date Remediation Plan Submitted:	9/26/2000

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103943624**

Date Remedial Action Underway:	10/26/2003
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/21/1993
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.74292548
Longitude:	-117.8508189
MTBE Date:	6/6/2001
Max MTBE GW:	8940
MTBE Concentration:	3
Max MTBE Soil:	109
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	A
Staff:	VJJ
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	PROC, IND, MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: 11/2/99 - mtg w/SAFD, gw case, referred to RB, 2/14/00 - postponed VES extended test

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AA130 **UNOCAL CORPORATION** **CA FID UST** **S101589073**
East **315 N GRAND AVE** **SWEEPS UST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.223 mi.
1179 ft. **Site 2 of 14 in cluster AA**

Relative:
Higher

Actual:
134 ft.

CA FID UST:

Facility ID:	30001239
Regulated By:	UTNKI
Regulated ID:	00055220
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	17700 CASTLETON
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SANTA ANA 92701
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

SWEEPS UST:

Status:	Not reported

UNOCAL CORPORATION (Continued) **S101589073**

Comp Number:	103
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000103-000001
Tank Status:	Not reported
Capacity:	280
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	3

Status:	Not reported
Comp Number:	103
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000103-000002
Tank Status:	Not reported
Capacity:	9950
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	103
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000103-000003
Tank Status:	Not reported
Capacity:	9950
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

AA131 **UNION OIL SERVICE STATION #559** **HIST UST** **U001578132**
East **315 N GRAND AVE** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.223 mi.
1179 ft. **Site 3 of 14 in cluster AA**

Relative:
Higher

Actual:
134 ft.

HIST UST:

Region:	STATE
Facility ID:	00000055220
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MAHMOOD KIKALAYE
Telephone:	7145425151
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	123 CAMINO DELA REINA
Owner City,St,Zip:	SAN DIEGO, CA 92108
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	1966
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10
Tank Num:	003
Container Num:	3
Year Installed:	1966
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, 10

AA132 **STATION #5598** **HIST UST** **U001578122**
East **315 N GRAND AVE** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.223 mi.
1179 ft. **Site 4 of 14 in cluster AA**

Relative:
Higher

Actual:
134 ft.

HIST UST:

Region:	STATE
Facility ID:	00000043755
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MAHOOD KIKALAYE
Telephone:	7145425151
Owner Name:	UNION OIL COMPANY OF CALIFORNI
Owner Address:	1450 FRAZEE ROAD

STATION #5598 (Continued) **U001578122**

Owner City,St,Zip:	SAN DIEGO, CA 92108
Total Tanks:	0001
Tank Num:	001
Container Num:	5598-00
Year Installed:	1966
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Visual

AA133 **UNOCAL #5598** **LUST** **S105960696**
East **315 N. GRAND AVE** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.223 mi.
1179 ft. **Site 5 of 14 in cluster AA**

Relative:
Higher

Actual:
134 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083002004T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Vapor Extraction
Cross Street:	4TH
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0605901496
How Stopped Date:	Not reported
Enter Date:	1/6/1992
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	1/10/1992
Discover Date:	9/11/1991
Enforcement Date:	Not reported
Close Date:	11/6/1998
Date Prelim Assessment Workplan Submitted:	12/20/1991
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	1/16/1997
Enter Date:	1/6/1992
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7476525
Longitude:	-117.8515719

UNOCAL #5598 (Continued) **S105960696**

MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	NOM
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: TANKS: 280 W.O. TANK-11 HOLES. CONFIRMATION BORING REPORT DATED 1/16/97

Y134 **GOLDEN WEST CIRCUITS INC** **RCRA-SQG** **1004677325**
NNW **624 N POINSETTIA ST** **FINDS** **CAR000095810**
1/8-1/4 **SANTA ANA, CA 92701** **HAZNET**
0.224 mi.
1181 ft. **Site 4 of 4 in cluster Y**

Relative:
Higher

Actual:
133 ft.

RCRA-SQG:

Date form received by agency:	04/25/2001
Facility name:	GOLDEN WEST CIRCUITS INC
Facility address:	624 N POINSETTIA ST SANTA ANA, CA 92701
EPA ID:	CAR000095810
Contact:	NANDALAL PATEL
Contact address:	624 N POINSETTIA ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 664-0170
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	GOLDEN WEST CIRCUITS INC
Owner/operator address:	624 N POINSETTIA ST SANTA ANA, CA 92701
Owner/operator country:	Not reported
Owner/operator telephone:	(714) 664-0170
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

GOLDEN WEST CIRCUITS INC (Continued) **1004677325**

Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	04/25/2001
Site name:	GOLDEN WEST CIRCUITS INC
Classification:	Small Quantity Generator

Hazardous Waste Summary:

Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Violation Status:	No violations found

FINDS:

Registry ID: 110012244758

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid:	1004677325
Year:	2001
GEPAID:	CAR000095810
Contact:	PATEL NANDALAL
Telephone:	7146640170
Mailing Name:	Not reported
Mailing Address:	1261 N LAKEVIEW AVE STE J
Mailing City,St,Zip:	ANAHEIM, CA 928071859
Gen County:	Not reported
TSD EPA ID:	CAT080033681

GOLDEN WEST CIRCUITS INC (Continued) **1004677325**

TSD County: Not reported
Waste Category: Liquids with pH <= 2 with metals
Disposal Method: Recycler
Tons: 0.45
Facility County: Orange

envid: 1004677325
Year: 2001
GEPAID: CAR000095810
Contact: PATEL NANDALAL
Telephone: 7146640170
Mailing Name: Not reported
Mailing Address: 1261 N LAKEVIEW AVE STE J
Mailing City,St,Zip: ANAHEIM, CA 928071859
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 0.6
Facility County: Orange

envid: 1004677325
Year: 2001
GEPAID: CAR000095810
Contact: PATEL NANDALAL
Telephone: 7146640170
Mailing Name: Not reported
Mailing Address: 1261 N LAKEVIEW AVE STE J
Mailing City,St,Zip: ANAHEIM, CA 928071859
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: 16.85
Facility County: Orange

envid: 1004677325
Year: 2001
GEPAID: CAR000095810
Contact: PATEL NANDALAL
Telephone: 7146640170
Mailing Name: Not reported
Mailing Address: 1261 N LAKEVIEW AVE STE J
Mailing City,St,Zip: ANAHEIM, CA 928071859
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Liquids with nickel >= 134 Mg./L
Disposal Method: Recycler
Tons: 0.45
Facility County: Orange

envid: 1004677325
Year: 2001
GEPAID: CAR000095810

GOLDEN WEST CIRCUITS INC (Continued) **1004677325**

Contact: PATEL NANDALAL
Telephone: 7146640170
Mailing Name: Not reported
Mailing Address: 1261 N LAKEVIEW AVE STE J
Mailing City,St,Zip: ANAHEIM, CA 928071859
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Recycler
Tons: 0.22
Facility County: Orange

Click this hyperlink while viewing on your computer to access
4 additional CA_HAZNET: record(s) in the EDR Site Report.

AA135 **G & M OIL CO., INC. 49** **UST** **U003939868**
ENE **401 N. GRAND** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.227 mi.
1198 ft. **Site 6 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

UST:
Facility ID: 30-020-sa104
Permitting Agency: SANTA ANA, CITY OF
Latitude: 33.74818632
Longitude: -117.851717

ORANGE CO. UST:
Facility ID: FA0035433

AA136 **STATION 033** **HIST UST** **U001578123**
ENE **401 N GRAND AVE** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.227 mi.
1198 ft. **Site 7 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

HIST UST:
Region: STATE
Facility ID: 00000012749
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 2139275339
Owner Name: CALIFORNIA TARGET ENTERPRISES,
Owner Address: 12739 LAKEWOOD BLVD.
Owner City,St,Zip: DOWNEY, CA 90242
Total Tanks: 0005

Tank Num: 001
Container Num: 33-1
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported

STATION 033 (Continued) **U001578123**

Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 32-2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 33-3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 33-J
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 005
Container Num: 33-5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

AA137 **FAST GAS** **CA FID UST** **S101619749**
ENE **401 N GRAND AVE** **SWEEPS UST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.227 mi.
1198 ft. **Site 8 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

CA FID UST:
Facility ID: 30015302
Regulated By: UTNKA
Regulated ID: 00012749
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2139275339
Mail To: Not reported
Mailing Address: 401 N GRAND AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported

FAST GAS (Continued) **S101619749**

NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Not reported
Comp Number: 104
Number: Not reported
Board Of Equalization: 44-779524
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000104-000005
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: 1

Status: Active
Comp Number: 104
Number: 1
Board Of Equalization: 44-779524
Referral Date: 07-13-93
Action Date: 07-13-93
Created Date: 07-31-88
Owner Tank Id: 33-1
SWRCB Tank Id: 30-020-000104-000001
Tank Status: A
Capacity: 10000
Active Date: 07-13-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 104
Number: 1
Board Of Equalization: 44-779524
Referral Date: 07-13-93
Action Date: 07-13-93
Created Date: 07-31-88
Owner Tank Id: 32-2
SWRCB Tank Id: 30-020-000104-000002
Tank Status: A
Capacity: 10000
Active Date: 07-13-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

FAST GAS (Continued) **S101619749**

Status:	Active
Comp Number:	104
Number:	1
Board Of Equalization:	44-779524
Referral Date:	07-13-93
Action Date:	07-13-93
Created Date:	07-31-88
Owner Tank Id:	33-3
SWRCB Tank Id:	30-020-000104-000003
Tank Status:	A
Capacity:	10000
Active Date:	07-13-93
Tank Use:	M.V. FUEL
STG:	P
Content:	PRM UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	104
Number:	1
Board Of Equalization:	44-779524
Referral Date:	07-13-93
Action Date:	07-13-93
Created Date:	07-31-88
Owner Tank Id:	33-J
SWRCB Tank Id:	30-020-000104-000004
Tank Status:	A
Capacity:	10000
Active Date:	07-13-93
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

AA138 **MOREHOUSE V D** **EDR US Hist Auto Stat** **1009091064**
ENE **1302 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.228 mi.
1203 ft. **Site 9 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

EDR Historical Auto Stations:

Name:	MOREHOUSE V D
Year:	1936
Type:	AUTO SERVICE STATIONS

AA139 **COPE U S** **EDR US Hist Auto Stat** **1009093448**
ENE **1302 E 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.228 mi.
1203 ft. **Site 10 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

EDR Historical Auto Stations:

Name:	COPE U S
Year:	1925
Type:	SERVICE STATIONS

AA140
ENE
1/8-1/4
0.230 mi.
1216 ft.

EHRLER S PHIL SERVICE STATION
1302 E 4TH ST
SANTA ANA, CA

Site 11 of 14 in cluster AA

EDR US Hist Auto Stat **1009094291**
N/A

Relative:
Higher

Actual:
135 ft.

EDR Historical Auto Stations:
Name: EHRLER S PHIL SERVICE STATION
Year: 1945
Type: AUTO SERVICE STATIONS

X141
SE
1/8-1/4
0.232 mi.
1224 ft.

1208 E WALNUT ST
SANTA ANA, CA 92701

Site 3 of 3 in cluster X

EDR US Hist Auto Stat **1015182224**
N/A

Relative:
Lower

Actual:
127 ft.

EDR Historical Auto Stations:
Name: CLASSIC AUTO UPHOLSTERY
Year: 1999
Address: 1208 E WALNUT ST

Name: GEORGES AUTO REPAIR
Year: 2001
Address: 1208 E WALNUT ST

Name: GEORGES AUTO REPAIR
Year: 2002
Address: 1208 E WALNUT ST

142
WNW
1/8-1/4
0.236 mi.
1244 ft.

WIEBE A C
819 E 5TH REAR
SANTAANA, CA

EDR US Hist Auto Stat **1009093750**
N/A

Relative:
Lower

Actual:
128 ft.

EDR Historical Auto Stations:
Name: WIEBE A C
Year: 1936
Type: AUTO REPAIRING

143
ENE
1/8-1/4
0.236 mi.
1247 ft.

G & M OIL #49
401 GRAND AVE
SANTA ANA, CA 92701

LUST **S105624533**
CHMIRS **N/A**

Relative:
Higher

Actual:
136 ft.

LUST:
Region: STATE
Global Id: T0605901944
Latitude: 33.748306637
Longitude: -117.851674613
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 09/26/2012
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Worker: VJB

G & M OIL #49 (Continued) **S105624533**

Local Agency: Not reported
RB Case Number: 083002831T
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: VESA completed historically. Multiple phases of corrective action & CSB results show elevated VOCs persist above CHHSLs/RSLs. Risk evalaution req'd prior to closure consideration - soil vapor survey/RA completed - passed for current occupants (ongoing fueling) and more sensitive adjacent land use (elementary school).

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605901944
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: vjahn-bull@waterboards.ca.gov
Phone Number: 9517824903

Status History:
Global Id: T0605901944
Status: Open - Case Begin Date
Status Date: 02/12/1996

Global Id: T0605901944
Status: Open - Site Assessment
Status Date: 02/12/1996

Global Id: T0605901944
Status: Open - Site Assessment
Status Date: 02/28/1996

Global Id: T0605901944
Status: Open - Site Assessment
Status Date: 12/16/2005

Global Id: T0605901944
Status: Open - Site Assessment
Status Date: 06/14/2006

Global Id: T0605901944
Status: Open - Site Assessment
Status Date: 01/02/2007

Global Id: T0605901944
Status: Open - Site Assessment
Status Date: 04/01/2008

Global Id: T0605901944
Status: Open - Verification Monitoring
Status Date: 06/08/2010

G & M OIL #49 (Continued) **S105624533**

Global Id: T0605901944
Status: Completed - Case Closed
Status Date: 09/26/2012

Global Id: T0605901944
Status: Open - Remediation
Status Date: 06/08/2005

Global Id: T0605901944
Status: Open - Remediation
Status Date: 08/31/2005

Global Id: T0605901944
Status: Open - Remediation
Status Date: 09/22/2005

Global Id: T0605901944
Status: Open - Remediation
Status Date: 05/17/2004

Regulatory Activities:

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 11/28/2006
Action: Verbal Enforcement

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 01/26/2007
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 01/14/2005
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 09/08/2005
Action: * Verbal Communication

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 05/10/2004
Action: File review

Global Id: T0605901944
Action Type: RESPONSE
Date: 07/29/2010
Action: Site Assessment Report - Regulator Responded

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/17/2008
Action: Verbal Communication

Global Id: T0605901944

G & M OIL #49 (Continued) **S105624533**

Action Type:	RESPONSE
Date:	08/15/2009
Action:	CAP/RAP - Other Report
Global Id:	T0605901944
Action Type:	RESPONSE
Date:	07/30/2009
Action:	Monitoring Report - Semi-Annually
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	04/26/2012
Action:	Notification - Public Notice of Case Closure
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	09/20/2004
Action:	File review
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	03/16/2004
Action:	Staff Letter
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	11/21/2002
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	09/22/2005
Action:	File review
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	11/16/2005
Action:	Staff Letter
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	01/29/2007
Action:	Verbal Communication
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	05/05/2009
Action:	File review
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	09/02/2009
Action:	Staff Letter
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	08/17/2009

G & M OIL #49 (Continued) **S105624533**

Action: File review

Global Id: T0605901944
Action Type: Other
Date: 02/28/1996
Action: Leak Stopped

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/26/2010
Action: Other Report / Document

Global Id: T0605901944
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/30/2005
Action: Remedial Progress Report

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 08/05/2003
Action: Staff Letter

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 03/13/2008
Action: Staff Letter

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 07/12/2012
Action: Staff Letter

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/24/2012
Action: File review

Global Id: T0605901944
Action Type: RESPONSE
Date: 10/30/2011
Action: Risk Assessment Report

Global Id: T0605901944
Action Type: RESPONSE
Date: 02/01/2004
Action: CAP/RAP - Feasibility Study Report

G & M OIL #49 (Continued) **S105624533**

Global Id: T0605901944
Action Type: RESPONSE
Date: 06/28/2010
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605901944
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 01/25/2011
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 02/28/2008
Action: Meeting

Global Id: T0605901944
Action Type: RESPONSE
Date: 01/14/2005
Action: Other Report / Document

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 12/07/2010
Action: File review

Global Id: T0605901944
Action Type: RESPONSE
Date: 05/01/2009
Action: Interim Remedial Action Report

Global Id: T0605901944
Action Type: Other
Date: 03/15/1996
Action: Leak Reported

Global Id: T0605901944
Action Type: RESPONSE
Date: 03/26/2008
Action: Soil and Water Investigation Workplan

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 11/15/2011
Action: Site Visit / Inspection / Sampling

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 09/05/2008
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT

G & M OIL #49 (Continued) **S105624533**

Date: 10/23/2008
Action: Staff Letter

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 07/28/2009
Action: Staff Letter

Global Id: T0605901944
Action Type: RESPONSE
Date: 01/10/2007
Action: Soil and Water Investigation Workplan

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/15/2006
Action: Other Report / Document

Global Id: T0605901944
Action Type: RESPONSE
Date: 06/15/2006
Action: Soil and Water Investigation Workplan

Global Id: T0605901944
Action Type: RESPONSE
Date: 02/01/2010
Action: Other Report / Document

Global Id: T0605901944
Action Type: Other
Date: 02/28/1996
Action: Leak Discovery

Global Id: T0605901944
Action Type: RESPONSE
Date: 03/15/2004
Action: Other Report / Document

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/15/2003
Action: Soil and Water Investigation Report

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/30/2003
Action: * No Action

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/01/2003
Action: * No Action

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 02/18/2009
Action: Staff Letter

G & M OIL #49 (Continued) **S105624533**

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 02/01/2007
Action: Verbal Enforcement

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 05/16/2006
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 09/10/2008
Action: Verbal Enforcement

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 02/27/2012
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 07/15/2009
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 11/29/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901944
Action Type: RESPONSE
Date: 11/15/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/19/2008
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605901944
Action Type: RESPONSE
Date: 05/30/2004
Action: CAP/RAP - Final Remediation / Design Plan

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/05/2008
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605901944
Action Type: RESPONSE

G & M OIL #49 (Continued) **S105624533**

Date:	07/09/2007
Action:	Clean Up Fund - 5-Year Review Summary
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	12/16/2010
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	04/30/2010
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	09/30/2010
Action:	File review
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	10/31/2011
Action:	File review
Global Id:	T0605901944
Action Type:	RESPONSE
Date:	01/12/2011
Action:	Verbal Communication - Regulator Responded
Global Id:	T0605901944
Action Type:	RESPONSE
Date:	04/30/2011
Action:	Other Workplan - Regulator Responded
Global Id:	T0605901944
Action Type:	RESPONSE
Date:	09/15/2012
Action:	Well Destruction Workplan - Regulator Responded
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	06/20/2006
Action:	Staff Letter
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	06/15/2006
Action:	Verbal Communication
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	05/31/2006
Action:	Staff Letter
Global Id:	T0605901944
Action Type:	ENFORCEMENT
Date:	06/09/2004
Action:	Staff Letter

G & M OIL #49 (Continued) **S105624533**

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 03/03/2009
Action: File review

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/30/2003
Action: Other Report / Document

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/05/2003
Action: Soil and Water Investigation Report

Global Id: T0605901944
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901944
Action Type: RESPONSE
Date: 12/30/2005
Action: Soil and Water Investigation Workplan

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/20/2010
Action: Verbal Enforcement

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/26/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 05/03/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 08/10/2005
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 01/10/2006
Action: Staff Letter

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 09/29/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0605901944
Action Type: ENFORCEMENT

G & M OIL #49 (Continued) **S105624533**

Date: 06/08/2005
Action: File review

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 09/26/2012
Action: Closure/No Further Action Letter

Global Id: T0605901944
Action Type: RESPONSE
Date: 04/30/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 08/30/2010
Action: File review

Global Id: T0605901944
Action Type: RESPONSE
Date: 10/30/2005
Action: Remedial Progress Report

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/30/2005
Action: Remedial Progress Report

Global Id: T0605901944
Action Type: REMEDIATION
Date: 02/14/2005
Action: Not reported

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 07/29/2003
Action: * No Action

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 05/20/2008
Action: Site Visit / Inspection / Sampling

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 04/22/2008
Action: Staff Letter

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 01/13/2009
Action: File review

G & M OIL #49 (Continued) **S105624533**

Global Id: T0605901944
Action Type: RESPONSE
Date: 11/15/2005
Action: Other Report / Document

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/30/2006
Action: Other Report / Document

Global Id: T0605901944
Action Type: RESPONSE
Date: 09/05/2005
Action: Other Report / Document

Global Id: T0605901944
Action Type: ENFORCEMENT
Date: 08/15/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901944
Action Type: RESPONSE
Date: 03/05/2009
Action: Verbal Communication

Global Id: T0605901944
Action Type: RESPONSE
Date: 03/02/2009
Action: Verbal Communication

Global Id: T0605901944
Action Type: RESPONSE
Date: 02/09/2010
Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0605901944
Action Type: RESPONSE
Date: 01/18/2011
Action: Monitoring Report - Semi-Annually

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Remediation Plan
Case Number: 083002831T
Local Case Num: Not reported
Case Type: Other ground water affected
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: 04TH
Enf Type: FREV
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported

G & M OIL #49 (Continued) **S105624533**

Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605901944
How Stopped Date:	2/28/1996
Enter Date:	6/18/1996
Date Confirmation of Leak Began:	2/28/1996
Date Preliminary Assessment Began:	Not reported
Discover Date:	2/28/1996
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	2/12/1996
Date Remediation Plan Submitted:	5/17/2004
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/18/1996
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7483365
Longitude:	-117.8516559
MTBE Date:	5/22/2002
Max MTBE GW:	9.3
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	AGR, PROC, IND, MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

CHMIRS:

OES Incident Number:	'12-2269
OES notification:	04/17/2012
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported

G & M OIL #49 (Continued) **S105624533**

More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	Fire Dept.
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1230
Year:	2012
Agency:	G&M Oil Co
Incident Date:	4/16/2012
Admin Agency:	Santa Ana Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Diesel
Quantity Released:	15-18
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	RP states that a hole in a customer's fuel tank caused 15-18 gallons of the diesel he filled his truck with to release onto the concrete. The release is contained and cleanup is complete. No waterways have been impacted.

AA144 **OLSON E J** **EDR US Hist Cleaners** **1009199567**
ENE **1315 W 4TH ST** **N/A**
1/8-1/4 **SANTAANA, CA**
0.239 mi.
1261 ft. **Site 12 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

EDR Historical Cleaners:

Name:	OLSON E J
Year:	1936
Type:	CARPET CLEANERS

U145 **MCCAIN TRUST/ORCO BLOCK CO INC** **LUST** **S110654823**
WNW **MAIN ST** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.239 mi.
1263 ft. **Site 13 of 13 in cluster U**

Relative:
Lower

Actual:
127 ft.

LUST:

Region:	STATE
Global Id:	T0605901361
Latitude:	33.7483495
Longitude:	-117.8607602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/31/1997
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	NOM
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083001821T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901361
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0605901361
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Status History:

Global Id:	T0605901361
Status:	Open - Remediation
Status Date:	06/10/1991

MCCAIN TRUST/ORCO BLOCK CO INC (Continued) **S110654823**

Global Id: T0605901361
Status: Open - Remediation
Status Date: 10/01/1995

Global Id: T0605901361
Status: Open - Case Begin Date
Status Date: 06/10/1991

Global Id: T0605901361
Status: Completed - Case Closed
Status Date: 07/31/1997

Regulatory Activities:
Global Id: T0605901361
Action Type: ENFORCEMENT
Date: 08/06/2010
Action: Closure/No Further Action Letter

Global Id: T0605901361
Action Type: Other
Date: 06/10/1991
Action: Leak Reported

AB146 **PRECISION HONING SPECIALISTS** **RCRA-SQG** **1000905207**
SSE **1241 E CHESTNUT AVE** **FINDS** **CA0000370981**
1/8-1/4 **SANTA ANA, CA 92701** **HAZNET**
0.241 mi.
1270 ft. **Site 1 of 4 in cluster AB**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:
Date form received by agency: 06/06/1994
Facility name: PRECISION HONING SPECIALISTS
Facility address: 1241 E CHESTNUT AVE
SANTA ANA, CA 927016437
EPA ID: CA0000370981
Mailing address: E CHESTNUT AVE
SANTA ANA, CA 927016437
Contact: BRANKA STIJOVIC
Contact address: 1241 E CHESTNUT AVE
SANTA ANA, CA 927016437
Contact country: US
Contact telephone: (714) 543-5962
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MANDA STIJOVIC
Owner/operator address: 3074 KILLYBROOKE LN
COSTA MESA, CA 92626
Owner/operator country: Not reported

PRECISION HONING SPECIALISTS (Continued) **1000905207**

Owner/operator telephone: (714) 546-0570
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002617829

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1000905207
Year: 2004
GEPAID: CA0000370981
Contact: MANDA STIJOVIC
Telephone: 7145435962
Mailing Name: Not reported
Mailing Address: 1241 E CHESTNUT AVE_UNIT A
Mailing City,St,Zip: SANTA ANA, CA 927016437
Gen County: Not reported
TSD EPA ID: CAT000613976
TSD County: Not reported
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Transfer Station
Tons: 0.06
Facility County: Orange

envid: 1000905207
Year: 2001

PRECISION HONING SPECIALISTS (Continued) **1000905207**

GEPAID:	CA0000370981
Contact:	MANDA STIJOVIC
Telephone:	7145435962
Mailing Name:	Not reported
Mailing Address:	1241 E CHESTNUT AVE_UNIT A
Mailing City,St,Zip:	SANTA ANA, CA 927016437
Gen County:	Not reported
TSD EPA ID:	CAT000613976
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Transfer Station
Tons:	0.29
Facility County:	Orange

envid:	1000905207
Year:	2000
GEPAID:	CA0000370981
Contact:	MANDA STIJOVIC
Telephone:	7145435962
Mailing Name:	Not reported
Mailing Address:	1241 E CHESTNUT AVE_UNIT A
Mailing City,St,Zip:	SANTA ANA, CA 927016437
Gen County:	Not reported
TSD EPA ID:	CAT000613976
TSD County:	Not reported
Waste Category:	Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method:	Not reported
Tons:	0.06
Facility County:	Orange

AB147 **NIPPON MACHINE ENGINEERING INC** **RCRA-SQG** **1000594607**
SSE **1202 E WALNUT UNIT J** **FINDS** **CAD983584525**
1/8-1/4 **SANTA ANA, CA 92701**
0.241 mi.
1270 ft. **Site 2 of 4 in cluster AB**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:

Date form received by agency:	06/13/1991
Facility name:	NIPPON MACHINE ENGINEERING INC
Facility address:	1202 E WALNUT UNIT J SANTA ANA, CA 92701
EPA ID:	CAD983584525
Contact:	TODD UCHIUMI
Contact address:	1202 E WALNUT UNIT J SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 543-3550
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

NIPPON MACHINE ENGINEERING INC (Continued) **1000594607**

Owner/operator name: TODD UCHIUMI
Owner/operator address: 1202 E WALNUT UNIT J
SANTA ANA, CA 92701
Owner/operator country: Not reported
Owner/operator telephone: (714) 543-3550
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002845921

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AB148 **TANAKA AUTO RPR** **RCRA-SQG 1000595808**
SSE **1208 E WALNUT** **FINDS CAD983597634**
1/8-1/4 **SANTA ANA, CA 92701**
0.241 mi.
1270 ft. **Site 3 of 4 in cluster AB**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:
Date form received by agency: 07/30/1991
Facility name: TANAKA AUTO RPR
Facility address: 1208 E WALNUT
SANTA ANA, CA 92701
EPA ID: CAD983597634
Mailing address: E WALNUT
SANTA ANA, CA 92701
Contact: KIYOSHI TANAKA
Contact address: 1208 E WALNUT

TANAKA AUTO RPR (Continued) **1000595808**

SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 542-8001
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: TANAKA AUTO RPR
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002854992

Environmental Interest/Information System

TANAKA AUTO RPR (Continued) **1000595808**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AB149 **J AND J AXLE SUPPLY** **RCRA-SQG** **1004676137**
SSE **1208 E WALNUT STE H** **FINDS** **CAR000081323**
1/8-1/4 **SANTA ANA, CA 92701** **HAZNET**
0.241 mi.
1270 ft. **Site 4 of 4 in cluster AB**

Relative:
Lower

Actual:
124 ft.

RCRA-SQG:

Date form received by agency:	08/29/2000
Facility name:	J AND J AXLE SUPPLY
Facility address:	1208 E WALNUT STE H SANTA ANA, CA 92701
EPA ID:	CAR000081323
Contact:	JOSE GONZALEZ
Contact address:	1208 E WALNUT STE H SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 667-5202
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	JOSE GONZALEZ
Owner/operator address:	1208 E WALNUT STE H SANTA ANA, CA 92701
Owner/operator country:	Not reported
Owner/operator telephone:	(714) 667-5202
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

J AND J AXLE SUPPLY (Continued) **1004676137**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D039
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110012266760

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
envid: 1004676137
Year: 2001
GEPAID: CAR000081323
Contact: --
Telephone: 7146675202
Mailing Name: Not reported
Mailing Address: 1208 E WALNUT STE H
Mailing City,St,Zip: SANTA ANA, CA 927010000
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.41
Facility County: Orange

envid: 1004676137
Year: 2000
GEPAID: CAR000081323
Contact: --
Telephone: 7146675202
Mailing Name: Not reported
Mailing Address: 1208 E WALNUT STE H
Mailing City,St,Zip: SANTA ANA, CA 927010000
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.1
Facility County: Orange

AA150 **UNOCAL #5598** **LUST** **S109284466**
East **315 N N. GRAND AVE** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.241 mi.
1274 ft. **Site 13 of 14 in cluster AA**

Relative:
Higher

Actual:
135 ft.

LUST:

Region:	STATE
Global Id:	T0605901496
Latitude:	33.747776
Longitude:	-117.851566
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/06/1998
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	NOM
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083002004T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901496
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0605901496
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Status History:

Global Id:	T0605901496
Status:	Open - Case Begin Date
Status Date:	09/11/1991

Global Id:	T0605901496
Status:	Open - Site Assessment
Status Date:	12/20/1991

Global Id:	T0605901496
Status:	Open - Site Assessment
Status Date:	01/10/1992

Global Id:	T0605901496

UNOCAL #5598 (Continued) **S109284466**

Status: Completed - Case Closed
Status Date: 11/06/1998

Global Id: T0605901496
Status: Open - Verification Monitoring
Status Date: 01/16/1997

Regulatory Activities:
Global Id: T0605901496
Action Type: Other
Date: 12/11/1991
Action: Leak Reported

Global Id: T0605901496
Action Type: Other
Date: 09/11/1991
Action: Leak Discovery

Global Id: T0605901496
Action Type: ENFORCEMENT
Date: 11/06/1998
Action: Closure/No Further Action Letter

Z151 **HAMIL J C** **EDR US Hist Auto Stat** **1009093757**
WSW **710 E 1ST ST** **N/A**
1/8-1/4 **SANTA ANA, CA**
0.243 mi.
1285 ft. **Site 2 of 2 in cluster Z**

Relative:
Lower

Actual:
123 ft.

EDR Historical Auto Stations:
Name: HAMIL J C
Year: 1945
Type: AUTO SERVICE STATIONS

AA152 **REMINGTON ELEMENTARY REDEVELOPMENT** **SCH** **S105628711**
ENE **1325 EAST FOURTH STREET** **ENVIROSTOR** **N/A**
1/8-1/4 **SANTA ANA, CA 92701**
0.249 mi.
1317 ft. **Site 14 of 14 in cluster AA**

Relative:
Higher

Actual:
136 ft.

SCH:

Facility ID: 30820004
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: * Triss Chesney
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404321

REMINGTON ELEMENTARY REDEVELOPMENT (Continued) **S105628711**

Assembly:	69
Senate:	34
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	09/12/2005
Restricted Use:	NO
Funding:	School District
Latitude:	33.74332
Longitude:	-117.8467
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	REMINGTON ELEMENTARY REDEVELOPMENT
Alias Type:	Alternate Name
Alias Name:	SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA ANA USD-REMINGTON ELEM REDVELOPMNT
Alias Type:	Alternate Name
Alias Name:	404321
Alias Type:	Project Code (Site Code)
Alias Name:	30820004
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	07/23/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/01/2002
Comments:	approved wp
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	03/27/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/12/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	07/14/2003
Comments:	DTSC issued an inactive status letter on November 4, 2002 indicating DTSC woul close out the project if a revised schedule for furture activities was not received. DTSC received verbal notification in March 2003, from the Santa Ana Unified School District that the

REMINGTON ELEMENTARY REDEVELOPMENT (Continued) **S105628711**

project would likely not be active until September or October 2003.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 30820004
Status: Inactive - Needs Evaluation
Status Date: 09/12/2005
Site Code: 404321
Site Type: School Investigation
Site Type Detailed: School
Acres: 4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Triss Chesney
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.74332
Longitude: -117.8467
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: REMINGTON ELEMENTARY REDEVELOPMENT
Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-REMINGTON ELEM REDVELOPMNT
Alias Type: Alternate Name
Alias Name: 404321
Alias Type: Project Code (Site Code)
Alias Name: 30820004
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/23/2002
Comments: Not reported

REMINGTON ELEMENTARY REDEVELOPMENT (Continued) **S105628711**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	09/01/2002
Comments:	approved wp
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	03/27/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/12/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	07/14/2003
Comments:	DTSC issued an inactive status letter on November 4, 2002 indicating DTSC woul close out the project if a revised schedule for furture activities was not received. DTSC received verbal notification in March 2003, from the Santa Ana Unified School District that the project would likely not be active until September or October 2003.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AC153 **ORANGE COUNTY FRUIT STREET SHOPS** **RCRA-SQG** **1000315132**
North **1102 E FRUIT ST** **FINDS** **CAD981678063**
1/4-1/2 **SANTA ANA, CA 92701** **LUST**
0.304 mi.
1606 ft. **Site 1 of 4 in cluster AC**

Relative:
Higher

Actual:
141 ft.

RCRA-SQG:

Date form received by agency:	10/14/1986
Facility name:	ORANGE COUNTY FRUIT STREET SHOPS
Facility address:	1102 E FRUIT ST SANTA ANA, CA 92701
EPA ID:	CAD981678063
Mailing address:	445 CIVIC CENTER DR WE SANTA ANA, CA 92701
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1102 E FRUIT ST SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 834-2140
Contact email:	Not reported

ORANGE COUNTY FRUIT STREET SHOPS (Continued) **1000315132**

EPA Region: 09
Land type: Other land type
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: County
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ORANGE COUNTY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.50-60
Area of violation: Generators - General
Date violation determined: 02/13/1991
Date achieved compliance: 02/13/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported

ORANGE COUNTY FRUIT STREET SHOPS (Continued) **1000315132**

Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 02/13/1991
Date achieved compliance: 02/13/1996
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 02/13/1996
Evaluation lead agency: EPA

Evaluation date: 02/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/13/1996
Evaluation lead agency: EPA

FINDS:

Registry ID: 110002748055

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Remedial action (cleanup) Underway
Case Number: 083002232T

ORANGE COUNTY FRUIT STREET SHOPS (Continued) **1000315132**

Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	FULLER
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Overfill
Leak Source:	Piping
Global ID:	T0605901637
How Stopped Date:	3/3/1993
Enter Date:	6/1/1993
Date Confirmation of Leak Began:	3/3/1993
Date Preliminary Assessment Began:	Not reported
Discover Date:	3/3/1993
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	3/4/1993
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/1/1993
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7522134
Longitude:	-117.8551251
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	TME
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AC154 **FRUIT STREET FUELING STATION** **LUST** **S104025179**
North **1102 FRUIT ST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.304 mi.
1606 ft. **Site 2 of 4 in cluster AC**

Relative:
Higher

Actual:
141 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Leak being confirmed
Case Number:	083003519T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605902311
How Stopped Date:	Not reported
Enter Date:	8/24/1999
Date Confirmation of Leak Began:	2/12/1999
Date Preliminary Assessment Began:	Not reported
Discover Date:	2/12/1999
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	8/24/1999
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.75220075
Longitude:	-117.8550376
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	TME
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported

FRUIT STREET FUELING STATION (Continued) **S104025179**

Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

AC155 **G W MAINTENANCE, INC** **HIST CORTESE** **S101589684**
North **1102 E 6TH ST** **CA FID UST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701** **SWEEPS UST**
0.304 mi.
1606 ft. **Site 3 of 4 in cluster AC**

Relative:
Higher

Actual:
141 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083003519T

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083002232T

CA FID UST:
Facility ID: 30017892
Regulated By: UTNKA
Regulated ID: 00065056
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145428726
Mail To: Not reported
Mailing Address: 1101 E 6TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Active
Comp Number: 317
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-21-93
Action Date: 11-10-93
Created Date: 07-21-93
Owner Tank Id: 1
SWRCB Tank Id: 30-020-000317-000001
Tank Status: A
Capacity: 6000
Active Date: 11-10-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED

G W MAINTENANCE, INC (Continued) **S101589684**

Number Of Tanks: 2

Status: Active
Comp Number: 317
Number: 9
Board Of Equalization: Not reported
Referral Date: 07-21-93
Action Date: 11-10-93
Created Date: 07-21-93
Owner Tank Id: 2
SWRCB Tank Id: 30-020-000317-000002
Tank Status: A
Capacity: 6000
Active Date: 11-10-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

AC156 **FRUIT STREET FUELING STATION** **LUST U001578094**
North **1102 E FRUIT ST** **HIST UST N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.304 mi.
1606 ft. **Site 4 of 4 in cluster AC**

Relative:
Higher

Actual:
141 ft.

LUST:
Region: STATE
Global Id: T0605901637
Latitude: 33.751661
Longitude: -117.855335
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/15/2004
Lead Agency: SANTA ANA, CITY OF
Case Worker: CC
Local Agency: SANTA ANA, CITY OF
RB Case Number: 083002232T
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605901637
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Global Id: T0605901637
Contact Type: Regional Board Caseworker
Contact Name: TOM E. MBEKE-EKANEM

FRUIT STREET FUELING STATION (Continued) **U001578094**

Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: tmbeke-ekanem@waterboards.ca.gov
Phone Number: 9513202007

Status History:
Global Id: T0605901637
Status: Open - Case Begin Date
Status Date: 03/03/1993

Global Id: T0605901637
Status: Open - Site Assessment
Status Date: 03/03/1993

Global Id: T0605901637
Status: Open - Remediation
Status Date: 03/04/1993

Global Id: T0605901637
Status: Completed - Case Closed
Status Date: 07/15/2004

Regulatory Activities:
Global Id: T0605901637
Action Type: Other
Date: 03/03/1993
Action: Leak Stopped

Global Id: T0605901637
Action Type: Other
Date: 03/04/1993
Action: Leak Reported

Global Id: T0605901637
Action Type: Other
Date: 03/03/1993
Action: Leak Discovery

Region: STATE
Global Id: T0605902311
Latitude: 33.751661
Longitude: -117.855335
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/15/2004
Lead Agency: SANTA ANA, CITY OF
Case Worker: CC
Local Agency: SANTA ANA, CITY OF
RB Case Number: 083003519T
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

FRUIT STREET FUELING STATION (Continued) **U001578094**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605902311
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Global Id:	T0605902311
Contact Type:	Regional Board Caseworker
Contact Name:	TOM E. MBEKE-EKANEM
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	tmbeke-ekanem@waterboards.ca.gov
Phone Number:	9513202007

Status History:

Global Id:	T0605902311
Status:	Open - Site Assessment
Status Date:	02/12/1999

Global Id:	T0605902311
Status:	Completed - Case Closed
Status Date:	07/15/2004

Global Id:	T0605902311
Status:	Open - Case Begin Date
Status Date:	02/12/1999

Regulatory Activities:

Global Id:	T0605902311
Action Type:	Other
Date:	05/28/1999
Action:	Leak Reported

Global Id:	T0605902311
Action Type:	Other
Date:	02/12/1999
Action:	Leak Discovery

HIST UST:

Region:	STATE
Facility ID:	00000011657
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	G. BECHTOL
Telephone:	7148342130
Owner Name:	COUNTY OF ORANGE-GSA/TRANSPORT
Owner Address:	445 CIVIC CENTER DRIVE WEST

FRUIT STREET FUELING STATION (Continued) **U001578094**

Owner City,St,Zip:	SANTA ANA, CA 92701
Total Tanks:	0002
Tank Num:	001
Container Num:	15
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	16
Year Installed:	Not reported
Tank Capacity:	00000250
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

AD157 **GILBERT AND STEARNS** **LUST** **S101589259**
West **609 E 4TH ST** **CA FID UST** **N/A**
1/4-1/2 **SANTA ANA, CA 92712** **SWEEPS UST**
0.324 mi.
1711 ft. **Site 1 of 2 in cluster AD**

Relative:
Lower

Actual:
125 ft.

LUST:

Region:	STATE
Global Id:	T0605902127
Latitude:	33.74829
Longitude:	-117.862039
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/10/2001
Lead Agency:	SANTA ANA, CITY OF
Case Worker:	CC
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083003121T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605902127
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	cbernhardt@waterboards.ca.gov
Phone Number:	9517824495
Global Id:	T0605902127

GILBERT AND STEARNS (Continued) **S101589259**

Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Status History:
Global Id: T0605902127
Status: Completed - Case Closed
Status Date: 08/10/2001

Global Id: T0605902127
Status: Open - Case Begin Date
Status Date: 08/16/1991

Regulatory Activities:
Global Id: T0605902127
Action Type: Other
Date: 01/21/1998
Action: Leak Reported

Global Id: T0605902127
Action Type: Other
Date: 08/16/1991
Action: Leak Discovery

CA FID UST:
Facility ID: 30004686
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145477695
Mail To: Not reported
Mailing Address: 609 E 4TH ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92712
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

SWEEPS UST:
Status: Not reported
Comp Number: 479
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported

GILBERT AND STEARNS (Continued) **S101589259**

Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000479-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

AD158 **GILBERT AND STEARNS** **HIST CORTESE** **S103249112**
West **609** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92712**
0.327 mi.
1725 ft. **Site 2 of 2 in cluster AD**

Relative:
Lower

Actual:
125 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083003121T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Leak being confirmed
Case Number:	083003121T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	MINTER
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605902127
How Stopped Date:	Not reported
Enter Date:	2/11/1998
Date Confirmation of Leak Began:	1/1/1965
Date Preliminary Assessment Began:	Not reported
Discover Date:	8/16/1991
Enforcement Date:	Not reported
Close Date:	8/10/2001
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	2/11/1998
GW Qualifies:	Not reported

GILBERT AND STEARNS (Continued) **S103249112**

Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7481415
Longitude:	-117.8633891
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AE159 **ORANGE COUNTY REGISTER** **HIST CORTESE** **S104753823**
NE **625** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92707**
0.327 mi.
1726 ft. **Site 1 of 2 in cluster AE**

Relative:
Higher

Actual:
144 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083003109T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Post remedial action monitoring
Case Number:	083003109T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	FRUIT
Enf Type:	VER
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605902123

ORANGE COUNTY REGISTER (Continued) **S104753823**

How Stopped Date:	Not reported
Enter Date:	2/10/1998
Date Confirmation of Leak Began:	12/10/1997
Date Preliminary Assessment Began:	6/29/1998
Discover Date:	12/10/1997
Enforcement Date:	7/13/2001
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/20/2005
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	1/20/2005
Enter Date:	2/10/1998
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.75097486
Longitude:	-117.8511309
MTBE Date:	12/17/2002
Max MTBE GW:	290
MTBE Concentration:	3
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	C
Staff:	CAB
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AE160 **ORANGE COUNTY REGISTER THE** **LUST** **S103667318**
NE **625 N. GRAND AVENUE** **ENVIROSTOR** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.327 mi.
1726 ft. **Site 2 of 2 in cluster AE**

Relative:
Higher

Actual:
144 ft.

LUST:

Region:	STATE
Global Id:	T0605902123
Latitude:	33.750974857
Longitude:	-117.8511309
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/24/2014
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	CAB
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083003109T
LOC Case Number:	Not reported

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605902123
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: cbernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605902123
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Status History:
Global Id: T0605902123
Status: Open - Site Assessment
Status Date: 12/10/1997

Global Id: T0605902123
Status: Open - Site Assessment
Status Date: 06/29/1998

Global Id: T0605902123
Status: Open - Site Assessment
Status Date: 07/31/1998

Global Id: T0605902123
Status: Open - Site Assessment
Status Date: 06/04/2003

Global Id: T0605902123
Status: Open - Site Assessment
Status Date: 01/20/2005

Global Id: T0605902123
Status: Open - Verification Monitoring
Status Date: 01/20/2005

Global Id: T0605902123
Status: Open - Verification Monitoring
Status Date: 07/15/2013

Global Id: T0605902123
Status: Completed - Case Closed

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

Status Date: 02/24/2014

Global Id: T0605902123
Status: Open - Remediation
Status Date: 10/19/2009

Global Id: T0605902123
Status: Open - Remediation
Status Date: 10/27/2009

Global Id: T0605902123
Status: Open - Case Begin Date
Status Date: 12/10/1997

Global Id: T0605902123
Status: Open - Eligible for Closure
Status Date: 10/15/2013

Regulatory Activities:

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 04/12/2007
Action: Staff Letter

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 04/12/2004
Action: * Verbal Communication

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 11/07/2013
Action: Notification - Public Notice of Case Closure

Global Id: T0605902123
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 02/26/2008
Action: Staff Letter

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 09/02/2005
Action: Staff Letter

Global Id: T0605902123
Action Type: RESPONSE
Date: 07/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 08/31/2009

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

Action:	Verbal Enforcement
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	05/04/2011
Action:	File review
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	05/13/2010
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	02/24/2014
Action:	Closure/No Further Action Letter
Global Id:	T0605902123
Action Type:	RESPONSE
Date:	08/01/2011
Action:	Other Workplan
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	08/06/2012
Action:	Staff Letter
Global Id:	T0605902123
Action Type:	RESPONSE
Date:	04/30/2004
Action:	Monitoring Report - Quarterly
Global Id:	T0605902123
Action Type:	RESPONSE
Date:	08/16/2005
Action:	Soil and Water Investigation Workplan
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	03/15/2005
Action:	Staff Letter
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	12/08/2003
Action:	* Verbal Communication
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	07/13/2001
Action:	Notice of Violation
Global Id:	T0605902123
Action Type:	ENFORCEMENT
Date:	02/19/2003
Action:	Staff Letter

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

Global Id: T0605902123
Action Type: Other
Date: 12/15/1997
Action: Leak Reported

Global Id: T0605902123
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: Other
Date: 12/10/1997
Action: Leak Discovery

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 01/13/2014
Action: Staff Letter

Global Id: T0605902123
Action Type: RESPONSE
Date: 01/30/2005
Action: Soil and Water Investigation Workplan

Global Id: T0605902123
Action Type: RESPONSE
Date: 01/12/2008
Action: Other Workplan

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 06/09/2011
Action: Staff Letter

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 04/30/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902123
Action Type: RESPONSE
Date: 07/30/2007
Action: Other Report / Document

Global Id: T0605902123
Action Type: RESPONSE
Date: 11/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: ENFORCEMENT

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

Date: 02/08/2013
Action: Staff Letter

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 11/12/2010
Action: Verbal Enforcement

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 05/26/2006
Action: Meeting

Global Id: T0605902123
Action Type: RESPONSE
Date: 02/07/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 02/28/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 06/14/2003
Action: Soil and Water Investigation Workplan

Global Id: T0605902123
Action Type: RESPONSE
Date: 12/09/2003
Action: Other Report / Document

Global Id: T0605902123
Action Type: RESPONSE
Date: 03/09/2010
Action: CAP/RAP - Other Report

Global Id: T0605902123
Action Type: REMEDIATION
Date: 12/01/1997
Action: Excavation

Global Id: T0605902123
Action Type: REMEDIATION
Date: 01/01/2004
Action: Soil Vapor Extraction (SVE)

Global Id: T0605902123
Action Type: RESPONSE
Date: 11/01/2013
Action: Request for Closure - Regulator Responded

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

Global Id: T0605902123
Action Type: RESPONSE
Date: 07/24/2013
Action: Remedial Progress Report - Regulator Responded

Global Id: T0605902123
Action Type: ENFORCEMENT
Date: 12/12/2007
Action: Meeting

Global Id: T0605902123
Action Type: RESPONSE
Date: 10/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 05/30/2008
Action: CAP/RAP - Other Report

Global Id: T0605902123
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: REMEDIATION
Date: 10/19/2009
Action: Soil Vapor Extraction (SVE)

Global Id: T0605902123
Action Type: RESPONSE
Date: 10/30/2005
Action: Soil and Water Investigation Report

Global Id: T0605902123
Action Type: RESPONSE
Date: 08/28/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902123
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

ENVIROSTOR:
Facility ID: 71002942
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit

ORANGE COUNTY REGISTER THE (Continued) **S103667318**

Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	69
Senate:	34
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.75085
Longitude:	-117.8515
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD981984792
Alias Type:	EPA Identification Number
Alias Name:	110001178172
Alias Type:	EPA (FRS #)
Alias Name:	71002942
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AF161 **SANTA ANA DIESEL** **HIST CORTESE** **S104760553**
NNW **730 POINSETTIA ST** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.340 mi.
1797 ft. **Site 1 of 2 in cluster AF**

Relative:
Higher

Actual:
137 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002673T
Region:	CORTESE

SANTA ANA DIESEL (Continued) **S104760553**

Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000117T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083002673T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	CIVIC CENTER
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	R
Leak Source:	Tank
Global ID:	T0605901856
How Stopped Date:	4/10/1995
Enter Date:	6/22/1995
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/10/1995
Enforcement Date:	Not reported
Close Date:	2/9/2000
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/22/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7520834
Longitude:	-117.8596322
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	CAB
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported

SANTA ANA DIESEL (Continued) **S104760553**

Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

AF162 **SANTA ANA DIESEL** **LUST** **S109284801**
NNW **730 N POINSETTIA ST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.340 mi.
1797 ft. **Site 2 of 2 in cluster AF**

Relative:
Higher

Actual:
137 ft.

LUST:

Region:	STATE
Global Id:	T0605901856
Latitude:	33.752692
Longitude:	-117.859965
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/09/2000
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	CAB
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083002673T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901856
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Global Id:	T0605901856
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	cbernhardt@waterboards.ca.gov
Phone Number:	9517824495

Status History:

Global Id:	T0605901856
Status:	Open - Case Begin Date
Status Date:	04/10/1995

Global Id:	T0605901856
Status:	Completed - Case Closed
Status Date:	02/09/2000

SANTA ANA DIESEL (Continued) **S109284801**

Regulatory Activities:

Global Id:	T0605901856
Action Type:	Other
Date:	04/10/1995
Action:	Leak Stopped
Global Id:	T0605901856
Action Type:	Other
Date:	04/20/1995
Action:	Leak Reported
Global Id:	T0605901856
Action Type:	Other
Date:	04/10/1995
Action:	Leak Discovery
Global Id:	T0605901856
Action Type:	ENFORCEMENT
Date:	02/09/2000
Action:	Closure/No Further Action Letter - #083002673T

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163 **HONEYWELL** **HIST CORTESE S100864772**
West **514** **LUST N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.341 mi.
1798 ft.

Relative:
Lower

Actual:
122 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001938T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083001938T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Overfill
Leak Source:	UNK
Global ID:	T0605901444
How Stopped Date:	Not reported
Enter Date:	11/14/1991
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported

HONEYWELL (Continued) **S100864772**

Discover Date:	10/8/1991
Enforcement Date:	Not reported
Close Date:	12/1/1991
Date Prelim Assessment Workplan Submitted:	10/31/1991
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	11/14/1991
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7416438
Longitude:	-117.8450238
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

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164 **THRIFTY OIL #377/ ARCO #7741** **LUST** **S103950789**
SE **324 S GRAND AVE** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.370 mi.
1954 ft.

Relative:
Lower

Actual:
125 ft.

LUST:

Region:	STATE
Global Id:	T0605901646
Latitude:	33.743001387
Longitude:	-117.8508439
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/27/2005
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	VJB
Local Agency:	Not reported
RB Case Number:	083002247T
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103950789**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901646
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	vjahn-bull@waterboards.ca.gov
Phone Number:	9517824903

Status History:

Global Id:	T0605901646
Status:	Open - Case Begin Date
Status Date:	02/17/1993
Global Id:	T0605901646
Status:	Open - Site Assessment
Status Date:	05/01/1997
Global Id:	T0605901646
Status:	Open - Site Assessment
Status Date:	10/29/1999
Global Id:	T0605901646
Status:	Open - Site Assessment
Status Date:	10/23/2003
Global Id:	T0605901646
Status:	Completed - Case Closed
Status Date:	10/27/2005
Global Id:	T0605901646
Status:	Open - Verification Monitoring
Status Date:	01/01/2005
Global Id:	T0605901646
Status:	Open - Remediation
Status Date:	01/19/2005
Global Id:	T0605901646
Status:	Open - Remediation
Status Date:	04/14/2005
Global Id:	T0605901646
Status:	Open - Remediation
Status Date:	09/26/2000
Global Id:	T0605901646
Status:	Open - Remediation
Status Date:	11/09/2001
Global Id:	T0605901646
Status:	Open - Remediation
Status Date:	01/13/2003

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103950789**

Global Id: T0605901646
Status: Open - Remediation
Status Date: 04/14/2003

Global Id: T0605901646
Status: Open - Remediation
Status Date: 10/26/2003

Regulatory Activities:

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 10/27/2005
Action: Closure/No Further Action Letter

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 12/18/2003
Action: Meeting

Global Id: T0605901646
Action Type: RESPONSE
Date: 11/30/2004
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/31/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/31/2005
Action: Remedial Progress Report

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: File review

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 07/15/2004
Action: File review

Global Id: T0605901646
Action Type: RESPONSE
Date: 04/28/2003
Action: Remedial Progress Report

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/30/2003
Action: Remedial Progress Report

Global Id: T0605901646
Action Type: RESPONSE
Date: 10/30/2003

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103950789**

Action:	Remedial Progress Report
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	11/01/2003
Action:	Soil and Water Investigation Workplan
Global Id:	T0605901646
Action Type:	Other
Date:	02/17/1993
Action:	Leak Stopped
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	04/30/2005
Action:	Monitoring Report - Quarterly
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	04/30/2005
Action:	Soil and Water Investigation Report
Global Id:	T0605901646
Action Type:	ENFORCEMENT
Date:	09/29/2004
Action:	Site Visit / Inspection / Sampling
Global Id:	T0605901646
Action Type:	ENFORCEMENT
Date:	11/02/1999
Action:	* Historical Enforcement
Global Id:	T0605901646
Action Type:	ENFORCEMENT
Date:	09/15/2005
Action:	Notification - Public Notice of Case Closure
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	05/01/2003
Action:	Other Report / Document
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	10/30/2003
Action:	Monitoring Report - Quarterly
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	04/30/2004
Action:	NPDES / WDR Reports
Global Id:	T0605901646
Action Type:	RESPONSE
Date:	02/15/2006
Action:	Well Destruction Report

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103950789**

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 12/14/2004
Action: Staff Letter

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 01/31/2005
Action: File review

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 05/06/2003
Action: * No Action

Global Id: T0605901646
Action Type: Other
Date: 02/23/1993
Action: Leak Reported

Global Id: T0605901646
Action Type: Other
Date: 02/17/1993
Action: Leak Discovery

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/31/2003
Action: Remedial Progress Report

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/31/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE
Date: 03/31/2004
Action: Soil and Water Investigation Report

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 04/28/2003
Action: * No Action

Global Id: T0605901646
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103950789**

Date: 05/01/2004
Action: Other Workplan

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 01/27/2003
Action: * No Action

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 11/19/2002
Action: * No Action

Global Id: T0605901646
Action Type: RESPONSE
Date: 04/28/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 10/18/2004
Action: File review

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 05/16/2005
Action: File review

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 08/16/2005
Action: File review

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 12/15/2003
Action: Staff Letter

Global Id: T0605901646
Action Type: RESPONSE
Date: 07/31/2003
Action: Remedial Progress Report

Global Id: T0605901646
Action Type: RESPONSE
Date: 07/31/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE
Date: 11/30/2002
Action: Remedial Progress Report

THRIFTY OIL #377/ ARCO #7741 (Continued) **S103950789**

Global Id: T0605901646
Action Type: RESPONSE
Date: 11/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0605901646
Action Type: RESPONSE
Date: 11/19/2002
Action: Other Report / Document

Global Id: T0605901646
Action Type: REMEDIATION
Date: 11/08/2001
Action: Soil Vapor Extraction (SVE)

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 05/06/2004
Action: Staff Letter

Global Id: T0605901646
Action Type: ENFORCEMENT
Date: 04/12/2004
Action: Staff Letter

AG165 **REASON BUICK (FORMER)** **LUST** **S109284770**
NE **839 N GRAND AVE** **Orange Co. Industrial Site** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.385 mi.
2032 ft. **Site 1 of 2 in cluster AG**

Relative:
Higher

Actual:
151 ft.

LUST:
Region: STATE
Global Id: T0605901867
Latitude: 33.752437
Longitude: -117.851508
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 08/09/1995
Lead Agency: SANTA ANA, CITY OF
Case Worker: CC
Local Agency: SANTA ANA, CITY OF
RB Case Number: 083002690T
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605901867
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY

REASON BUICK (FORMER) (Continued) **S109284770**

City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Global Id: T0605901867
Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: nolson-martin@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0605901867
Status: Open - Case Begin Date
Status Date: 05/18/1995

Global Id: T0605901867
Status: Completed - Case Closed
Status Date: 08/09/1995

Regulatory Activities:
Global Id: T0605901867
Action Type: Other
Date: 05/18/1995
Action: Leak Stopped

Global Id: T0605901867
Action Type: Other
Date: 06/18/1995
Action: Leak Reported

Global Id: T0605901867
Action Type: Other
Date: 05/18/1995
Action: Leak Discovery

Global Id: T0605901867
Action Type: ENFORCEMENT
Date: 08/09/1995
Action: Closure/No Further Action Letter

Global Id: T0605901867
Action Type: ENFORCEMENT
Date: 08/09/1995
Action: Closure/No Further Action Letter

Orange Co. Industrial Site:
Case ID: 95IC032
Region: ORANGE
Record ID: RO0000512
Current Status: CLOSED 12/1/1995
Closure Type: Closure certification issued
Released Chemical: WASTE (OR SLOP) OIL

AG166 **REASON BUICK (FORMER)** **HIST CORTESE** **S102435725**
NE **839** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.385 mi.
2032 ft. **Site 2 of 2 in cluster AG**

Relative:
Higher

Actual:
151 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002690T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083002690T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Hydraulic Oil
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	FRUIT
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0605901867
How Stopped Date:	5/18/1995
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	5/18/1995
Enforcement Date:	Not reported
Close Date:	8/9/1995
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	1/1/1965
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7531084
Longitude:	-117.851656
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*

REASON BUICK (FORMER) (Continued) **S102435725**

Staff:	NOM
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AH167 **JASCO CHEMICAL** **LUST** **1000903131**
North **1008 N FULLER ST** **CA FID UST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701** **SWEEPS UST**
0.387 mi.
2046 ft. **Site 1 of 2 in cluster AH**

Relative:
Higher

Actual:
145 ft.

LUST:

Region:	STATE
Global Id:	T0605902277
Latitude:	33.7538193
Longitude:	-117.8554157
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/14/2001
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	RS
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083003448T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605902277
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rscott@waterboards.ca.gov
Phone Number:	9513206375

Global Id:	T0605902277
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Status History:

Global Id:	T0605902277

JASCO CHEMICAL (Continued) **1000903131**

Status: Open - Site Assessment
Status Date: 11/17/1998

Global Id: T0605902277
Status: Open - Site Assessment
Status Date: 11/19/1999

Global Id: T0605902277
Status: Completed - Case Closed
Status Date: 06/14/2001

Global Id: T0605902277
Status: Open - Case Begin Date
Status Date: 11/09/1998

Global Id: T0605902277
Status: Open - Remediation
Status Date: 03/28/2000

Regulatory Activities:
Global Id: T0605902277
Action Type: Other
Date: 11/09/1998
Action: Leak Stopped

Global Id: T0605902277
Action Type: Other
Date: 04/08/1999
Action: Leak Reported

Global Id: T0605902277
Action Type: Other
Date: 11/09/1998
Action: Leak Discovery

Global Id: T0605902277
Action Type: ENFORCEMENT
Date: 06/14/2001
Action: Closure/No Further Action Letter

CA FID UST:
Facility ID: 30017080
Regulated By: UTNKA
Regulated ID: CAD009103
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145476951
Mail To: Not reported
Mailing Address: 1008 N FULLER
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported

JASCO CHEMICAL (Continued) **1000903131**

EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Active
Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88
Owner Tank Id: 2
SWRCB Tank Id: 30-020-000096-000001
Tank Status: A
Capacity: 9900
Active Date: 05-29-92
Tank Use: CHEMICAL
STG: P
Content: NEUTRAL OIL
Number Of Tanks: 9

Status: Active
Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88
Owner Tank Id: 1
SWRCB Tank Id: 30-020-000096-000002
Tank Status: A
Capacity: 12000
Active Date: 05-29-92
Tank Use: CHEMICAL
STG: P
Content: PAINT THINNER
Number Of Tanks: Not reported

Status: Active
Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88
Owner Tank Id: 4
SWRCB Tank Id: 30-020-000096-000003
Tank Status: A
Capacity: 6000
Active Date: 05-29-92
Tank Use: CHEMICAL
STG: P
Content: LACQUER THIN
Number Of Tanks: Not reported

Status: Active

JASCO CHEMICAL (Continued) **1000903131**

Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88
Owner Tank Id: 5
SWRCB Tank Id: 30-020-000096-000004
Tank Status: A
Capacity: 5000
Active Date: 05-29-92
Tank Use: CHEMICAL
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

Status: Active
Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88
Owner Tank Id: 6
SWRCB Tank Id: 30-020-000096-000005
Tank Status: A
Capacity: 9900
Active Date: 05-29-92
Tank Use: CHEMICAL
STG: P
Content: METHYLENECHL
Number Of Tanks: Not reported

Status: Active
Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88
Owner Tank Id: 7
SWRCB Tank Id: 30-020-000096-000006
Tank Status: A
Capacity: 5000
Active Date: 05-29-92
Tank Use: CHEMICAL
STG: P
Content: METHYLETHYKE
Number Of Tanks: Not reported

Status: Active
Comp Number: 96
Number: 1
Board Of Equalization: 44-025984
Referral Date: 11-25-92
Action Date: 11-25-92
Created Date: 07-31-88

JASCO CHEMICAL (Continued) **1000903131**

Owner Tank Id:	3
SWRCB Tank Id:	30-020-000096-000007
Tank Status:	A
Capacity:	8000
Active Date:	05-29-92
Tank Use:	CHEMICAL
STG:	P
Content:	ACETONE (DIM
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	96
Number:	1
Board Of Equalization:	44-025984
Referral Date:	11-25-92
Action Date:	11-25-92
Created Date:	07-31-88
Owner Tank Id:	8
SWRCB Tank Id:	30-020-000096-000008
Tank Status:	A
Capacity:	5000
Active Date:	05-29-92
Tank Use:	CHEMICAL
STG:	P
Content:	METHANOL (ME
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	96
Number:	1
Board Of Equalization:	44-025984
Referral Date:	11-25-92
Action Date:	11-25-92
Created Date:	07-31-88
Owner Tank Id:	EIGHTEEN
SWRCB Tank Id:	30-020-000096-000009
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

AH168 **JASCO CHEM CORP., INC** **HIST CORTESE** **S101589681**
North **1008 FULLER ST** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701** **CA FID UST**
0.388 mi. **EMI**
2047 ft. **Site 2 of 2 in cluster AH**

Relative:
Higher

Actual:
145 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083003448T

LUST REG 8:

JASCO CHEM CORP., INC (Continued) **S101589681**

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083003448T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Methylene Chloride
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	WASHINGTON
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605902277
How Stopped Date:	11/9/1998
Enter Date:	5/12/1999
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	11/17/1998
Discover Date:	11/9/1998
Enforcement Date:	Not reported
Close Date:	6/14/2001
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	11/19/1999
Date Remediation Plan Submitted:	3/28/2000
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/12/1999
GW Qualifies:	Not reported
Soil Qualifies:	<
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7536164
Longitude:	-117.8556861
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	10
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

JASCO CHEM CORP., INC (Continued) **S101589681**

CA FID UST:

Facility ID:	30017879
Regulated By:	UTNKA
Regulated ID:	00053227
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7148358350
Mail To:	Not reported
Mailing Address:	936 E 003RD ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SANTA ANA 92701
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

EMI:

Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	5199
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1993
County Code:	30

JASCO CHEM CORP., INC (Continued) **S101589681**

Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1995
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1997
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

JASCO CHEM CORP., INC (Continued) **S101589681**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

JASCO CHEM CORP., INC (Continued) **S101589681**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2002
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2004
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.0644229
Reactive Organic Gases Tons/Yr:	0.05
Carbon Monoxide Emissions Tons/Yr:	0.000175
NOX - Oxides of Nitrogen Tons/Yr:	0.00065
SOX - Oxides of Sulphur Tons/Yr:	0.00000415
Particulate Matter Tons/Yr:	0.0000375
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2005
County Code:	30
Air Basin:	SC

JASCO CHEM CORP., INC (Continued) **S101589681**

Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.078435
Reactive Organic Gases Tons/Yr:	.066435257
Carbon Monoxide Emissions Tons/Yr:	.000175
NOX - Oxides of Nitrogen Tons/Yr:	.00065
SOX - Oxides of Sulphur Tons/Yr:	.000003
Particulate Matter Tons/Yr:	.000035
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.00003325

Year:	2006
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.1110163543720133175
Reactive Organic Gases Tons/Yr:	.086
Carbon Monoxide Emissions Tons/Yr:	.126
NOX - Oxides of Nitrogen Tons/Yr:	.15
SOX - Oxides of Sulphur Tons/Yr:	.001
Particulate Matter Tons/Yr:	.011
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.011

Year:	2007
County Code:	30
Air Basin:	SC
Facility ID:	6624
Air District Name:	SC
SIC Code:	2851
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.1110163543720133175
Reactive Organic Gases Tons/Yr:	.086
Carbon Monoxide Emissions Tons/Yr:	.126
NOX - Oxides of Nitrogen Tons/Yr:	.15
SOX - Oxides of Sulphur Tons/Yr:	.001
Particulate Matter Tons/Yr:	.011
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.011

AI169 **GRAND CAR WASH** **LUST** **U001578093**
NNE **930 N GRAND AVE** **HIST UST** **N/A**
1/4-1/2 **SANTA ANA, CA 92705**
0.431 mi.
2278 ft. **Site 1 of 4 in cluster AI**

Relative:
Higher

Actual:
156 ft.

LUST:

Region:	STATE
Global Id:	T0605900415
Latitude:	33.753585683
Longitude:	-117.852248
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/18/2006
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	NOM
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083000520T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605900415
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Global Id:	T0605900415
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0605900415
Status:	Open - Case Begin Date
Status Date:	07/21/1987

Global Id:	T0605900415
Status:	Open - Site Assessment
Status Date:	07/21/1987

Global Id:	T0605900415
Status:	Open - Site Assessment
Status Date:	07/23/2003

Global Id:	T0605900415

GRAND CAR WASH (Continued) **U001578093**

Status: Open - Site Assessment
Status Date: 03/01/2006

Global Id: T0605900415
Status: Open - Remediation
Status Date: 04/01/1999

Global Id: T0605900415
Status: Completed - Case Closed
Status Date: 08/18/2006

Global Id: T0605900415
Status: Open - Verification Monitoring
Status Date: 06/10/2005

Global Id: T0605900415
Status: Open - Remediation
Status Date: 04/20/2001

Global Id: T0605900415
Status: Open - Remediation
Status Date: 09/13/2002

Global Id: T0605900415
Status: Open - Remediation
Status Date: 08/08/2003

Regulatory Activities:
Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 06/26/2006
Action: File review

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 06/27/2006
Action: Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 12/28/2004
Action: Staff Letter

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 06/24/2005
Action: * No Action

Global Id: T0605900415
Action Type: RESPONSE
Date: 09/30/2005
Action: Well Installation Report

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 09/17/2003
Action: * No Action

GRAND CAR WASH (Continued) **U001578093**

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 11/19/2004
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 07/05/2006
Action: Notification - Preclosure

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 11/15/2005
Action: Staff Letter

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 07/15/2005
Action: * Verbal Communication

Global Id: T0605900415
Action Type: RESPONSE
Date: 07/30/2003
Action: Soil and Water Investigation Workplan

Global Id: T0605900415
Action Type: RESPONSE
Date: 10/24/2003
Action: Soil and Water Investigation Report

Global Id: T0605900415
Action Type: RESPONSE
Date: 10/30/2002
Action: Remedial Progress Report

Global Id: T0605900415
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: Other
Date: 11/28/1987
Action: Leak Reported

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 02/24/2004
Action: * No Action

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 04/09/2004
Action: Staff Letter

Global Id: T0605900415
Action Type: ENFORCEMENT

GRAND CAR WASH (Continued) **U001578093**

Date: 07/20/2004
Action: Staff Letter

Global Id: T0605900415
Action Type: RESPONSE
Date: 08/30/2003
Action: Remedial Progress Report

Global Id: T0605900415
Action Type: RESPONSE
Date: 12/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 05/13/2003
Action: * No Action

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 01/05/2003
Action: File review

Global Id: T0605900415
Action Type: RESPONSE
Date: 10/16/2006
Action: Unknown

Global Id: T0605900415
Action Type: RESPONSE
Date: 06/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 12/05/2005
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 08/22/2002
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 01/30/2003
Action: * No Action

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 09/30/2002
Action: * No Action

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 09/29/2002
Action: * No Action

GRAND CAR WASH (Continued) **U001578093**

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 10/02/2002
Action: File review

Global Id: T0605900415
Action Type: RESPONSE
Date: 06/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: RESPONSE
Date: 06/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: RESPONSE
Date: 09/30/2002
Action: Remedial Progress Report

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 12/23/2002
Action: File review

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 03/25/2003
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 07/01/2003
Action: * No Action

Global Id: T0605900415
Action Type: RESPONSE
Date: 06/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: RESPONSE
Date: 01/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 10/23/2002
Action: File review

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 10/29/2002
Action: * No Action

Global Id: T0605900415
Action Type: ENFORCEMENT

GRAND CAR WASH (Continued) **U001578093**

Date: 07/20/2002
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 11/25/2003
Action: Staff Letter

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 08/26/2005
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 08/18/2006
Action: Closure/No Further Action Letter

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 03/15/2006
Action: Staff Letter

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 06/23/2004
Action: Staff Letter

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 12/09/2005
Action: * No Action

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 05/11/2005
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 10/07/2004
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 02/18/2005
Action: * Verbal Communication

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 10/11/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 08/01/2003
Action: Staff Letter

GRAND CAR WASH (Continued) **U001578093**

Global Id: T0605900415
Action Type: RESPONSE
Date: 09/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: RESPONSE
Date: 04/30/2003
Action: Remedial Progress Report

Global Id: T0605900415
Action Type: RESPONSE
Date: 07/08/2004
Action: Other Workplan

Global Id: T0605900415
Action Type: RESPONSE
Date: 10/25/2006
Action: Unknown

Global Id: T0605900415
Action Type: RESPONSE
Date: 12/06/2004
Action: Monitoring Report - Quarterly

Global Id: T0605900415
Action Type: REMEDIATION
Date: 09/03/2002
Action: Soil Vapor Extraction (SVE)

Global Id: T0605900415
Action Type: ENFORCEMENT
Date: 12/07/2004
Action: * No Action

Global Id: T0605900415
Action Type: RESPONSE
Date: 03/01/2006
Action: Soil and Water Investigation Workplan

Global Id: T0605900415
Action Type: RESPONSE
Date: 03/01/2006
Action: Other Report / Document

Global Id: T0605900415
Action Type: RESPONSE
Date: 01/22/2004
Action: Soil and Water Investigation Report

Global Id: T0605900415
Action Type: RESPONSE
Date: 06/18/2006
Action: Soil and Water Investigation Report

GRAND CAR WASH (Continued) **U001578093**

HIST UST:

Region:	STATE
Facility ID:	00000052497
Facility Type:	Other
Other Type:	CAR WASH
Contact Name:	LEON YOUSSEF
Telephone:	7145433949
Owner Name:	LEON YOUSSEF
Owner Address:	930 N. GRAND
Owner City,St,Zip:	SANTA ANA, CA 92701
Total Tanks:	0012
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

GRAND CAR WASH (Continued) **U001578093**

Tank Num:	006
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	007
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	008
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	009
Container Num:	5
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Tank Num:	010
Container Num:	6
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Tank Num:	011
Container Num:	7
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Tank Num:	012
Container Num:	8
Year Installed:	Not reported

GRAND CAR WASH (Continued) **U001578093**

Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

AI170 **ROBERTS HOLIDAY LINES** **RCRA-SQG** **1000219738**
NNE **930 POINSETTIA ST** **FINDS** **CAD981651292**
1/4-1/2 **SANTA ANA, CA 92701** **HIST CORTESE**
0.431 mi. **LUST**
2278 ft. **Site 2 of 4 in cluster AI** **CA FID UST**
HIST UST
Relative: **SWEEPS UST**
Higher **HAZNET**

Actual: **156 ft.**

RCRA-SQG:
Date form received by agency: 01/09/1987
Facility name: ROBERTS HOLIDAY LINES
Facility address: 930 POINSETTIA ST
SANTA ANA, CA 92701
EPA ID: CAD981651292
Mailing address: POINSETTIA ST
SANTA ANA, CA 92701
Contact: ENVIRONMENTAL MANAGER
Contact address: 930 POINSETTIA ST
SANTA ANA, CA 92701
Contact country: US
Contact telephone: (714) 835-7486
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ROBERTS HOLIDAY LINES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

ROBERTS HOLIDAY LINES (Continued) **1000219738**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002737655

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001079T

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000520T

Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083002885T

LUST:
Region: STATE
Global Id: T0605901976
Latitude: 33.753818
Longitude: -117.860271
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/09/1999

ROBERTS HOLIDAY LINES (Continued) **1000219738**

Lead Agency:	SANTA ANA, CITY OF
Case Worker:	CC
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083002885T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901976
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA
Email:	cciraulo@santa-ana.org
Phone Number:	Not reported

Global Id:	T0605901976
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	vjahn-bull@waterboards.ca.gov
Phone Number:	9517824903

Status History:

Global Id:	T0605901976
Status:	Open - Case Begin Date
Status Date:	07/23/1996

Global Id:	T0605901976
Status:	Open - Site Assessment
Status Date:	07/25/1996

Global Id:	T0605901976
Status:	Completed - Case Closed
Status Date:	12/09/1999

Regulatory Activities:

Global Id:	T0605901976
Action Type:	Other
Date:	07/23/1996
Action:	Leak Stopped

Global Id:	T0605901976
Action Type:	Other
Date:	07/26/1996
Action:	Leak Reported

Global Id:	T0605901976
Action Type:	Other

ROBERTS HOLIDAY LINES (Continued) **1000219738**

Date:	07/25/1996
Action:	Leak Discovery
Global Id:	T0605901976
Action Type:	ENFORCEMENT
Date:	12/09/1999
Action:	Closure/No Further Action Letter

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083000520T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	VES
Cross Street:	SANTA ANA
Enf Type:	SEL
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605900415
How Stopped Date:	Not reported
Enter Date:	5/28/2002
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	7/23/2003
Date Remediation Plan Submitted:	4/20/2001
Date Remedial Action Underway:	8/8/2003
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/28/2002
GW Qualifies:	<
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.75358568
Longitude:	-117.852248
MTBE Date:	3/1/2001
Max MTBE GW:	10
MTBE Concentration:	7
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	NOM

ROBERTS HOLIDAY LINES (Continued) **1000219738**

Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	LATEST SUBSURFACE ENV. SITE ASSESSMENT RPOR DATED 4/27/98

CA FID UST:

Facility ID:	30006873
Regulated By:	UTNKA
Regulated ID:	00020282
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7148357486
Mail To:	Not reported
Mailing Address:	930 POINSETTIA ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SANTA ANA 92701
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST UST:

Region:	STATE
Facility ID:	00000020282
Facility Type:	Other
Other Type:	CHARTER BUS SERVICE
Contact Name:	RANDY MCKEEHAN
Telephone:	7148357486
Owner Name:	ROBERTS HOLIDAY LINES, INC.
Owner Address:	930 POINSETTIA ST.
Owner City,St,Zip:	SANTA ANA, CA 92701
Total Tanks:	0004
Tank Num:	001
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL

ROBERTS HOLIDAY LINES (Continued) **1000219738**

Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

SWEEPS UST:
Status: Active
Comp Number: 180
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-21-92
Action Date: 02-21-92
Created Date: 07-31-88
Owner Tank Id: 4
SWRCB Tank Id: 30-020-000180-000001
Tank Status: A
Capacity: 8000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 2

Status: Active
Comp Number: 180
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-21-92
Action Date: 02-21-92
Created Date: 07-31-88
Owner Tank Id: 3
SWRCB Tank Id: 30-020-000180-000004
Tank Status: A
Capacity: 10000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Status: Not reported

ROBERTS HOLIDAY LINES (Continued) **1000219738**

Comp Number:	180
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000180-000002
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	2

Status:	Not reported
Comp Number:	180
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000180-000003
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

HAZNET:

envid:	1000219738
Year:	1993
GEPAID:	CAD981651292
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	930 POINSETTIA ST
Mailing City,St,Zip:	SANTA ANA, CA 927010000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Recycler
Tons:	0.62549999999
Facility County:	Orange

AI171 **REASON BUICK** **RCRA-SQG** **1000385039**
NNE **909 N GRAND** **FINDS** **CAD981972904**
1/4-1/2 **SANTA ANA, CA 92701** **LUST**
0.435 mi. **HIST UST**
2297 ft. **Site 3 of 4 in cluster AI** **HAZNET**

Relative:
Higher

Actual:
156 ft.

RCRA-SQG:

Date form received by agency:	05/08/1987
Facility name:	REASON BUICK
Facility address:	909 N GRAND SANTA ANA, CA 92701
EPA ID:	CAD981972904
Mailing address:	PO BOX 10180 SANTA ANA, CA 92711
Contact:	ENVIRONMENTAL MANAGER
Contact address:	909 N GRAND SANTA ANA, CA 92701
Contact country:	US
Contact telephone:	(714) 547-9111
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	ERNIE ELCHLEPP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

REASON BUICK (Continued) **1000385039**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002760851

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:
Region: STATE
Global Id: T0605901802
Latitude: 33.753436
Longitude: -117.85122
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/16/1995
Lead Agency: SANTA ANA, CITY OF
Case Worker: CC
Local Agency: SANTA ANA, CITY OF
RB Case Number: 083002571T
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0605901802
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Global Id: T0605901802
Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500

REASON BUICK (Continued) **1000385039**

City: RIVERSIDE
Email: nolson-martin@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0605901802
Status: Open - Case Begin Date
Status Date: 09/28/1994

Global Id: T0605901802
Status: Completed - Case Closed
Status Date: 02/16/1995

Regulatory Activities:
Global Id: T0605901802
Action Type: ENFORCEMENT
Date: 02/16/1995
Action: Closure/No Further Action Letter

Global Id: T0605901802
Action Type: Other
Date: 09/30/1994
Action: Leak Reported

Global Id: T0605901802
Action Type: Other
Date: 09/28/1994
Action: Leak Discovery

Global Id: T0605901802
Action Type: ENFORCEMENT
Date: 02/16/1995
Action: Closure/No Further Action Letter

HIST UST:
Region: STATE
Facility ID: 00000010380
Facility Type: Other
Other Type: CAR DEALERSHIP
Contact Name: REX G. REASON / E.T/ELCHLEPP
Telephone: 7145479111
Owner Name: REASON BUICK CO
Owner Address: 909 NO. GRAND
Owner City,St,Zip: SANTA ANA, CA 92701
Total Tanks: 0003

Tank Num: 001
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00000150
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual

REASON BUICK (Continued) **1000385039**

Tank Num: 002
Container Num: 2
Year Installed: 1964
Tank Capacity: 00000150
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Visual, None

Tank Num: 003
Container Num: 1
Year Installed: 1962
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, None

HAZNET:
envid: 1000385039
Year: 1993
GEPAID: CAD981972904
Contact: REASON BUICK CO
Telephone: 7145323241
Mailing Name: Not reported
Mailing Address: PO BOX 10180
Mailing City,St,Zip: SANTA ANA, CA 927110000
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Transfer Station
Tons: 0.33450000000
Facility County: Orange

envid: 1000385039
Year: 1993
GEPAID: CAD981972904
Contact: REASON BUICK CO
Telephone: 7145323241
Mailing Name: Not reported
Mailing Address: PO BOX 10180
Mailing City,St,Zip: SANTA ANA, CA 927110000
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Not reported
Tons: 0.0135
Facility County: Orange

AI172 **REASON BUICK** **HIST CORTESE** **S104748380**
NNE **909** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.435 mi.
2297 ft. **Site 4 of 4 in cluster AI**

Relative:
Higher

Actual:
156 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002571T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Preliminary site assessment workplan submitted
Case Number:	083002571T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	FRUIT
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0605901802
How Stopped Date:	Not reported
Enter Date:	12/19/1994
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/28/1994
Enforcement Date:	Not reported
Close Date:	2/16/1995
Date Prelim Assessment Workplan Submitted:	1/1/1965
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/19/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7538034
Longitude:	-117.85168
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.

REASON BUICK (Continued) **S104748380**

MTBE Class:	*
Staff:	NOM
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AJ173 **TALIN TIRE INC.** **HIST CORTESE** **S105026412**
West **409 04TH** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.437 mi.
2308 ft. **Site 1 of 2 in cluster AJ**

Relative:
Lower

Actual:
124 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002444T

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083002444T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	FRENCH
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0605901745
How Stopped Date:	5/4/1994
Enter Date:	6/16/1994
Date Confirmation of Leak Began:	5/4/1994
Date Preliminary Assessment Began:	Not reported
Discover Date:	5/4/1994
Enforcement Date:	Not reported
Close Date:	6/30/1994
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/16/1994
GW Qualifies:	Not reported

TALIN TIRE INC. (Continued) **S105026412**

Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.74809649
Longitude:	-117.8641602
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AJ174 **TALIN TIRE INC.** **LUST S106933983**
West **409 E 4TH ST** **SWEEPS UST N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.437 mi.
2308 ft. **Site 2 of 2 in cluster AJ**

Relative:
Lower

Actual:
124 ft.

LUST:

Region:	STATE
Global Id:	T0605901745
Latitude:	33.748096488
Longitude:	-117.8641602
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/30/1994
Lead Agency:	SANTA ANA, CITY OF
Case Worker:	CC
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083002444T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605901745
Contact Type:	Local Agency Caseworker
Contact Name:	CHRISTOPHER CIRAULO
Organization Name:	SANTA ANA, CITY OF
Address:	1439 S. BROADWAY
City:	SANTA ANA

TALIN TIRE INC. (Continued) **S106933983**

Email: cciraulo@santa-ana.org
Phone Number: Not reported

Global Id: T0605901745
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rscott@waterboards.ca.gov
Phone Number: 9513206375

Status History:
Global Id: T0605901745
Status: Open - Site Assessment
Status Date: 05/04/1994

Global Id: T0605901745
Status: Open - Case Begin Date
Status Date: 05/04/1994

Global Id: T0605901745
Status: Completed - Case Closed
Status Date: 06/30/1994

Regulatory Activities:
Global Id: T0605901745
Action Type: Other
Date: 05/04/1994
Action: Leak Stopped

Global Id: T0605901745
Action Type: ENFORCEMENT
Date: 06/30/1994
Action: Closure/No Further Action Letter

Global Id: T0605901745
Action Type: Other
Date: 05/14/1994
Action: Leak Reported

Global Id: T0605901745
Action Type: Other
Date: 05/04/1994
Action: Leak Discovery

SWEEPS UST:
Status: Not reported
Comp Number: 465
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported

TALIN TIRE INC. (Continued) **S106933983**

SWRCB Tank Id:	30-020-000465-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

175
SE
1/4-1/2
0.438 mi.
2312 ft.

EECOINC **SCH** **S102799355**
1441 E CHESTNUT AVE **ENVIROSTOR** **N/A**
SANTA ANA, CA 92701

Relative:
Lower

Actual:
124 ft.

SCH:

Facility ID:	30360188
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Triss Chesney
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404183
Assembly:	69
Senate:	34
Special Program Status:	Not reported
Status:	Refer: RCRA
Status Date:	08/12/2002
Restricted Use:	NO
Funding:	School District
Latitude:	33.74273
Longitude:	-117.8493
APN:	NONE SPECIFIED
Past Use:	MANUFACTURING - ELECTRONIC
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	EECO
Alias Type:	Alternate Name
Alias Name:	EECOINC
Alias Type:	Alternate Name
Alias Name:	ENGINEERED ELECTRONICS CO
Alias Type:	Alternate Name
Alias Name:	RAYMOND VILLA SCHOOL (PROPOSED)
Alias Type:	Alternate Name
Alias Name:	SANTA ANA SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA ANA USD/RAY VILLA INTER. SCHOOL
Alias Type:	Alternate Name
Alias Name:	CAD008256349
Alias Type:	EPA Identification Number

EECOINC (Continued) **S102799355**

Alias Name: 404183
Alias Type: Project Code (Site Code)
Alias Name: 30360188
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 04/04/2007
Comments: Finalize, discuss with Peter Garcia, Get peters signature, send the comment letter for the workplan out

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 80001539
Status: Active
Status Date: 01/01/2008
Site Code: 400216
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 10
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Robert Romero
Supervisor: Ju-Tseng Liu
Division Branch: Engineering & Special Projects
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.74281
Longitude: -117.8489
APN: 011-154-41
Past Use: MANUFACTURING - ELECTRONIC
Potential COC: 1,1,2-Trichloroethane
Confirmed COC: 1,1,2-Trichloroethane
Potential Description: OTH
Alias Name: RAYMOND VILLA SCHOOL
Alias Type: Alternate Name
Alias Name: 011-154-41
Alias Type: APN
Alias Name: CAD008256349
Alias Type: EPA Identification Number
Alias Name: SLT8R1304082

EECOINC (Continued) **S102799355**

Alias Type: GeoTracker Global ID
Alias Name: 400216
Alias Type: Project Code (Site Code)
Alias Name: 30360188
Alias Type: Envirostor ID Number
Alias Name: 80001539
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 05/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/15/1991
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Corrective Measures Study Report
Completed Date: 04/15/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 05/17/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 10/10/2012
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 04/04/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/07/2013
Comments: completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 08/13/2013
Comments: completed

Completed Area Name: PROJECT WIDE

EECOINC (Continued) **S102799355**

Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 01/27/2000
Comments: Added per RR 1/31/07. lh

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed
Completed Date: 07/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 07/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/27/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Groundwater Migration Controlled
Completed Date: 07/09/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Human Exposure Controlled
Completed Date: 07/08/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 09/13/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 04/15/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 01/27/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 01/23/2004

EECOINC (Continued) **S102799355**

Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Remedy Selection and Statement of Basis
Future Due Date: 2019
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Corrective Measure Implementation Workplan
Schedule Due Date: 05/03/2012
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Corrective Measure Implementation Workplan
Schedule Due Date: 08/29/2012
Schedule Revised Date: Not reported

Facility ID: 30360188
Status: Refer: RCRA
Status Date: 08/12/2002
Site Code: 404183
Site Type: School Investigation
Site Type Detailed: School
Acres: 10
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Triss Chesney
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.74273
Longitude: -117.8493
APN: NONE SPECIFIED
Past Use: MANUFACTURING - ELECTRONIC
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: EECO
Alias Type: Alternate Name
Alias Name: EECOINC
Alias Type: Alternate Name
Alias Name: ENGINEERED ELECTRONICS CO
Alias Type: Alternate Name
Alias Name: RAYMOND VILLA SCHOOL (PROPOSED)
Alias Type: Alternate Name
Alias Name: SANTA ANA SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD/RAY VILLA INTER. SCHOOL
Alias Type: Alternate Name
Alias Name: CAD008256349
Alias Type: EPA Identification Number

EECOINC (Continued) **S102799355**

Alias Name: 404183
Alias Type: Project Code (Site Code)
Alias Name: 30360188
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 04/04/2007
Comments: Finalize, discuss with Peter Garcia, Get peters signature, send the comment letter for the workplan out

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

176 **GRANT ELEMENTARY SCHOOL** **SCH** **S105628712**
WSW **333 EAST WALNUT STREET** **ENVIROSTOR** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.439 mi.
2319 ft.

Relative:
Lower

Actual:
117 ft.

SCH:

Facility ID: 30820005
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404318
Assembly: 69
Senate: 34
Special Program Status: Not reported
Status: Inactive - Needs Evaluation
Status Date: 09/27/2005
Restricted Use: NO
Funding: School District
Latitude: 33.74332
Longitude: -117.8467
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: Polychlorinated biphenyls (PCBs, Polychlorinated biphenyls (PCBs, TPH-diesel
Confirmed COC: NONE SPECIFIED

GRANT ELEMENTARY SCHOOL (Continued) **S105628712**

Potential Description: NONE SPECIFIED
Alias Name: GRANT ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-PROPOSED GRANT ELEMENTARY
Alias Type: Alternate Name
Alias Name: 404318
Alias Type: Project Code (Site Code)
Alias Name: 30820005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/15/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 06/26/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/23/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 30820005
Status: Inactive - Needs Evaluation
Status Date: 09/27/2005
Site Code: 404318
Site Type: School Investigation
Site Type Detailed: School
Acres: 3
NPL: NO
Regulatory Agencies: SMBRP

GRANT ELEMENTARY SCHOOL (Continued) **S105628712**

Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.74332
Longitude: -117.8467
APN: NONE SPECIFIED
Past Use: * EDUCATIONAL SERVICES
Potential COC: Polychlorinated biphenyls (PCBs TPH-diesel
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: GRANT ELEMENTARY SCHOOL
Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-PROPOSED GRANT ELEMENTARY
Alias Type: Alternate Name
Alias Name: 404318
Alias Type: Project Code (Site Code)
Alias Name: 30820005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/15/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 06/26/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/23/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/29/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

GRANT ELEMENTARY SCHOOL (Continued) **S105628712**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AK177 **HPL MECHANICAL** **HIST CORTESE** **S101589671**
North **1041 LOGAN ST** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701** **CA FID UST**
0.452 mi. **SWEEPS UST**
2387 ft. **Site 1 of 2 in cluster AK**

Relative:
Higher

Actual:
145 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083003633T

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Leak being confirmed
Case Number: 083003633T
Local Case Num: Not reported
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: WASHINGTON AVENUE
Enf Type: Not reported
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0605902352
How Stopped Date: 12/22/1998
Enter Date: 2/9/2000
Date Confirmation of Leak Began: 12/23/1999
Date Preliminary Assessment Began: Not reported
Discover Date: 12/23/1999
Enforcement Date: Not reported
Close Date: Not reported
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported
Enter Date: 2/9/2000
GW Qualifies: Not reported
Soil Qualifies: Not reported
Operator: Not reported
Facility Contact: Not reported
Interim: Not reported
Oversite Program: LUST
Latitude: 33.75592471
Longitude: -117.8571522

HPL MECHANICAL (Continued) **S101589671**

MTBE Date: Not reported
Max MTBE GW: Not reported
MTBE Concentration: 0
Max MTBE Soil: Not reported
MTBE Fuel: 1
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class: *
Staff: RS
Staff Initials: JB
Lead Agency: Local Agency
Local Agency: Santa Ana, Orange County
Hydr Basin #: COASTAL PLAIN OF ORA
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

CA FID UST:
Facility ID: 30017809
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145410220
Mail To: Not reported
Mailing Address: 1041 LOGAN ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Active
Comp Number: 459
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-26-92
Action Date: 02-26-92
Created Date: 02-26-92
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000459-000002
Tank Status: A
Capacity: 1000
Active Date: 02-26-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active

HPL MECHANICAL (Continued) **S101589671**

Comp Number:	459
Number:	1
Board Of Equalization:	Not reported
Referral Date:	02-26-92
Action Date:	02-26-92
Created Date:	02-26-92
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-020-000459-000001
Tank Status:	A
Capacity:	1000
Active Date:	02-26-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	2

AK178 **HPL MECHANICAL** **LUST** **S109284589**
North **1041 N LOGAN** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.452 mi.
2387 ft. **Site 2 of 2 in cluster AK**

Relative:
Higher

Actual:
145 ft.

LUST:

Region:	STATE
Global Id:	T0605902352
Latitude:	33.75592471
Longitude:	-117.8571522
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/06/2014
Lead Agency:	ORANGE COUNTY LOP
Case Worker:	KL
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	083003633T
LOC Case Number:	12UT004
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605902352
Contact Type:	Local Agency Caseworker
Contact Name:	KEVIN LAMBERT
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E DYER ROAD SUITE 120
City:	SANTA ANA
Email:	klambert@ochca.com
Phone Number:	7144336261

Global Id:	T0605902352
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT

HPL MECHANICAL (Continued) **S109284589**

Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rscott@waterboards.ca.gov
Phone Number: 9513206375

Status History:
Global Id: T0605902352
Status: Open - Site Assessment
Status Date: 12/23/1999

Global Id: T0605902352
Status: Open - Site Assessment
Status Date: 06/19/2012

Global Id: T0605902352
Status: Completed - Case Closed
Status Date: 11/06/2014

Global Id: T0605902352
Status: Open - Case Begin Date
Status Date: 12/22/1998

Global Id: T0605902352
Status: Open - Eligible for Closure
Status Date: 10/02/2013

Regulatory Activities:
Global Id: T0605902352
Action Type: ENFORCEMENT
Date: 06/19/2012
Action: Letter - Notice

Global Id: T0605902352
Action Type: ENFORCEMENT
Date: 06/19/2012
Action: Notice of Responsibility

Global Id: T0605902352
Action Type: ENFORCEMENT
Date: 06/19/2012
Action: Referral to Local Agency

Global Id: T0605902352
Action Type: ENFORCEMENT
Date: 08/21/2014
Action: Notification - Public Participation Document

Global Id: T0605902352
Action Type: Other
Date: 01/28/2000
Action: Leak Reported

Global Id: T0605902352
Action Type: Other
Date: 12/22/1998

HPL MECHANICAL (Continued) **S109284589**

Action:	Leak Stopped
Global Id:	T0605902352
Action Type:	ENFORCEMENT
Date:	11/06/2014
Action:	Closure/No Further Action Letter
Global Id:	T0605902352
Action Type:	ENFORCEMENT
Date:	08/21/2014
Action:	Notification - Fee Title Owners Notice
Global Id:	T0605902352
Action Type:	ENFORCEMENT
Date:	08/21/2014
Action:	Notification - Public Notice of Case Closure
Global Id:	T0605902352
Action Type:	Other
Date:	12/23/1999
Action:	Leak Discovery
Global Id:	T0605902352
Action Type:	RESPONSE
Date:	07/23/2014
Action:	Request for Closure - Regulator Responded
Global Id:	T0605902352
Action Type:	RESPONSE
Date:	07/15/2013
Action:	Site Investigation Workplan - Regulator Responded
Global Id:	T0605902352
Action Type:	RESPONSE
Date:	08/30/2013
Action:	Request for Closure - Regulator Responded
Global Id:	T0605902352
Action Type:	ENFORCEMENT
Date:	05/09/2012
Action:	Referral to Local Agency

AL179 **SA RECYCLING** **SWRCY** **S113799866**
NNW **1016 N SANTIAGO ST** **HAZNET** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.455 mi.
2401 ft. **Site 1 of 3 in cluster AL**

Relative:
Higher

Actual:
142 ft.

SWRCY:

Reg Id:	145700
Cert Id:	RC145700.002
Mailing Address:	2411 N Glassell
Mailing City:	Orange
Mailing State:	CA
Mailing Zip Code:	92865
Website:	Not reported
Email:	Not reported

SA RECYCLING (Continued) **S113799866**

Phone Number:	(714) 667-7898
Grand Father:	N
Rural:	N
Operation Begin Date:	11/08/2013
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 4:00 pm
Tuesday Hours Of Operation:	8:00 am - 4:00 pm
Wednesday Hours Of Operation:	8:00 am - 4:00 pm
Thursday Hours Of Operation:	8:00 am - 4:00 pm
Friday Hours Of Operation:	8:00 am - 4:00 pm
Saturday Hours Of Operation:	8:00 am - 12:00 pm
Sunday Hours Of Operation:	CLOSED
Organization ID:	18968
Organization Name:	SA Recycling LLC

HAZNET:

envid:	S113799866
Year:	2013
GEPAID:	CAL000366057
Contact:	Tesha Johnson
Telephone:	7146884943
Mailing Name:	Not reported
Mailing Address:	2411 N Glassell
Mailing City,St,Zip:	Orange, CA 928650000
Gen County:	Orange
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.125
Facility County:	Not reported

envid:	S113799866
Year:	2013
GEPAID:	CAL000366057
Contact:	Tesha Johnson
Telephone:	7146884943
Mailing Name:	Not reported
Mailing Address:	2411 N Glassell
Mailing City,St,Zip:	Orange, CA 928650000
Gen County:	Orange
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.6255
Facility County:	Not reported

envid:	S113799866
Year:	2012
GEPAID:	CAL000366057

SA RECYCLING (Continued) **S113799866**

Contact:	TESHA JOHNSON
Telephone:	7146884943
Mailing Name:	Not reported
Mailing Address:	3200 E FRONTERA ST
Mailing City,St,Zip:	ANAHEIM, CA 928060000
Gen County:	Orange
TSD EPA ID:	AZR000501510
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.15
Facility County:	Orange
envid:	S113799866
Year:	2012
GEPAID:	CAL000366057
Contact:	TESHA JOHNSON
Telephone:	7146884943
Mailing Name:	Not reported
Mailing Address:	3200 E FRONTERA ST
Mailing City,St,Zip:	ANAHEIM, CA 928060000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.11571
Facility County:	Orange

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180 SSE 1/4-1/2 0.486 mi. 2567 ft. **MAAS PROPERTY** **LUST** **S106567157**
630 HATHAWAY STREET **N/A**
SANTA ANA, CA

Relative: Lower

Actual: 115 ft.

LUST:

Region:	STATE
Global Id:	T0605972795
Latitude:	33.73979
Longitude:	-117.853148
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/21/2004
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Worker:	NOM
Local Agency:	SANTA ANA, CITY OF
RB Case Number:	083004006T
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

MAAS PROPERTY (Continued) **S106567157**

Global Id: T0605972795
Contact Type: Local Agency Caseworker
Contact Name: CHRISTOPHER CIRAULO
Organization Name: SANTA ANA, CITY OF
Address: 1439 S. BROADWAY
City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Global Id: T0605972795
Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: nolson-martin@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0605972795
Status: Open - Case Begin Date
Status Date: 01/01/1994

Global Id: T0605972795
Status: Open - Site Assessment
Status Date: 09/01/2004

Global Id: T0605972795
Status: Open - Site Assessment
Status Date: 09/21/2004

Global Id: T0605972795
Status: Open - Site Assessment
Status Date: 10/14/2004

Global Id: T0605972795
Status: Completed - Case Closed
Status Date: 12/21/2004

Global Id: T0605972795
Status: Open - Remediation
Status Date: 09/21/2004

Regulatory Activities:
Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 12/07/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: RESPONSE
Date: 09/21/2004
Action: Other Workplan

Global Id: T0605972795
Action Type: RESPONSE

MAAS PROPERTY (Continued) **S106567157**

Date: 09/21/2004
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 10/26/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 10/21/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 09/03/2004
Action: * Referral to Regional Board or Another State Agency

Global Id: T0605972795
Action Type: Other
Date: 08/30/2004
Action: Leak Reported

Global Id: T0605972795
Action Type: Other
Date: 01/01/1994
Action: Leak Discovery

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 08/30/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 09/01/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 09/02/2004
Action: Meeting

Global Id: T0605972795
Action Type: Other
Date: 01/01/1994
Action: Leak Began

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 10/14/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 12/21/2004
Action: Closure/No Further Action Letter

MAAS PROPERTY (Continued) **S106567157**

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 12/17/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 10/13/2004
Action: * Verbal Communication

Global Id: T0605972795
Action Type: ENFORCEMENT
Date: 10/15/2004
Action: Staff Letter

Global Id: T0605972795
Action Type: RESPONSE
Date: 09/21/2004
Action: Preliminary Site Assessment Report

Global Id: T0605972795
Action Type: RESPONSE
Date: 09/21/2004
Action: Preliminary Site Assessment Workplan

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083004006T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	RB
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605972795
How Stopped Date:	Not reported
Enter Date:	Not reported
Date Confirmation of Leak Began:	9/1/2004
Date Preliminary Assessment Began:	10/14/2004
Discover Date:	1/1/1994
Enforcement Date:	Not reported
Close Date:	12/21/2004
Date Prelim Assessment Workplan Submitted:	9/21/2004
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	9/21/2004
Date Remedial Action Underway:	9/21/2004
Date Post Remedial Action Monitoring:	Not reported

MAAS PROPERTY (Continued) **S106567157**

Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	0
Longitude:	0
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	NOM
Staff Initials:	JB
Lead Agency:	Regional Board
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	Not reported
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

AL181 **REED THOMAS** **HIST CORTESE** **S104748383**
NNW **1205 SANTIAGO ST** **LUST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.492 mi.
2597 ft. **Site 2 of 3 in cluster AL**

Relative:
Higher

Actual:
143 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001523T

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083003523T

ORANGE CO. LUST:

Region:	ORANGE
Facility Id:	12UT003
Current Status:	3A
Released Substance:	Not reported
Date Closed:	Not reported
Case Type:	Undetermined
Record ID:	RO0003581

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region

REED THOMAS (Continued) **S104748383**

Facility Status:	Preliminary site assessment workplan submitted
Case Number:	083003523T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	WASHINGTON
Enf Type:	Not reported
Funding:	Responsible Party
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605902315
How Stopped Date:	6/30/1999
Enter Date:	9/1/1999
Date Confirmation of Leak Began:	8/2/1999
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/30/1999
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	11/17/1999
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/1/1999
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.7537733
Longitude:	-117.8586552
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	RS
Staff Initials:	JB
Lead Agency:	Local Agency
Local Agency:	Santa Ana, Orange County
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	No

Summary: Not reported

AL182 **REED THOMAS CO., INC.** **LUST** **S103620766**
NNW **1025 N SANTIAGO** **SWEEPS UST** **N/A**
1/4-1/2 **SANTA ANA, CA 92701**
0.492 mi.
2597 ft. **Site 3 of 3 in cluster AL**

Relative:
Higher

Actual:
143 ft.

LUST:

Region:	STATE
Global Id:	T0605902315
Latitude:	33.7537733
Longitude:	-117.8586552
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	11/17/1999
Lead Agency:	ORANGE COUNTY LOP
Case Worker:	KL
Local Agency:	ORANGE COUNTY LOP
RB Case Number:	083003523T
LOC Case Number:	12UT003
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0605902315
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rscott@waterboards.ca.gov
Phone Number:	9513206375

Global Id:	T0605902315
Contact Type:	Local Agency Caseworker
Contact Name:	KEVIN LAMBERT
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E DYER ROAD SUITE 120
City:	SANTA ANA
Email:	klambert@ochca.com
Phone Number:	7144336261

Status History:

Global Id:	T0605902315
Status:	Open - Site Assessment
Status Date:	08/02/1999

Global Id:	T0605902315
Status:	Open - Site Assessment
Status Date:	11/17/1999

Global Id:	T0605902315
Status:	Open - Case Begin Date

REED THOMAS CO., INC. (Continued) **S103620766**

Status Date: 06/30/1999

Regulatory Activities:

Global Id: T0605902315
Action Type: Other
Date: 06/30/1999
Action: Leak Stopped

Global Id: T0605902315
Action Type: ENFORCEMENT
Date: 06/19/2012
Action: Referral to Local Agency

Global Id: T0605902315
Action Type: ENFORCEMENT
Date: 06/19/2012
Action: Notice of Responsibility

Global Id: T0605902315
Action Type: ENFORCEMENT
Date: 06/19/2012
Action: Letter - Notice

Global Id: T0605902315
Action Type: ENFORCEMENT
Date: 05/09/2012
Action: Referral to Local Agency

Global Id: T0605902315
Action Type: Other
Date: 08/02/1999
Action: Leak Reported

Global Id: T0605902315
Action Type: ENFORCEMENT
Date: 05/20/2013
Action: File Review - Closure

Global Id: T0605902315
Action Type: Other
Date: 06/30/1999
Action: Leak Discovery

SWEEPS UST:

Status: Active
Comp Number: 324
Number: 1
Board Of Equalization: Not reported
Referral Date: 12-02-92
Action Date: 12-02-92
Created Date: 12-02-92
Owner Tank Id: 1
SWRCB Tank Id: 30-020-000324-000001
Tank Status: A
Capacity: 10000

REED THOMAS CO., INC. (Continued) **S103620766**

Active Date: 12-02-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

183
NW
1/2-1
0.504 mi.
2661 ft.

GSA/ TRANSPORTATION GARAGE
445 CIVIC CENTER DRIVE
SANTA ANA, CA 90603

Notify 65 **S100231070**
N/A

Relative:
Higher

Actual:
132 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 90603

184
NNW
1/2-1
0.509 mi.
2688 ft.

POINSETTIA/CIVIC CENTER
931 POINSETTIA STREET
SANTA ANA, CA 92701

SCH **S105628703**
ENVIROSTOR **N/A**

Relative:
Higher

Actual:
141 ft.

SCH:

Facility ID: 30510021
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5.7
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404172
Assembly: 69
Senate: 34
Special Program Status: Not reported
Status: Inactive - Needs Evaluation
Status Date: 11/27/2001
Restricted Use: NO
Funding: School District
Latitude: 33.7512
Longitude: -117.8571
APN: NONE SPECIFIED
Past Use: * WHOLESALE TRADE - NONDURABLE GOODS
Potential COC: TPH-diesel
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: POINSETTIA/CIVIC CENTER

POINSETTIA/CIVIC CENTER (Continued) **S105628703**

Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD/PROP POINSETTIA & CIVIC CT
Alias Type: Alternate Name
Alias Name: 404172
Alias Type: Project Code (Site Code)
Alias Name: 30510021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/27/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/07/2000
Comments: DTSC issued a PEA required determination based on the Phase I report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/12/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 30510021
Status: Inactive - Needs Evaluation
Status Date: 11/27/2001
Site Code: 404172
Site Type: School Investigation
Site Type Detailed: School
Acres: 5.7
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported

POINSETTIA/CIVIC CENTER (Continued) **S105628703**

Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.7512
Longitude: -117.8571
APN: NONE SPECIFIED
Past Use: * WHOLESALE TRADE - NONDURABLE GOODS
Potential COC: TPH-diesel
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: POINSETTIA/CIVIC CENTER
Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD/PROP POINSETTIA & CIVIC CT
Alias Type: Alternate Name
Alias Name: 404172
Alias Type: Project Code (Site Code)
Alias Name: 30510021
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/27/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 11/07/2000
Comments: DTSC issued a PEA required determination based on the Phase I report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 01/11/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 01/12/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

POINSETTIA/CIVIC CENTER (Continued) **S105628703**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AM185 **ELEMENTARY SCHOOL NO. 5** **SCH** **S107736285**
ESE **FIRST STREET/TOWNSEND STREET** **ENVIROSTOR** **N/A**
1/2-1 **SANTA ANA, CA 92701**
0.553 mi.
2921 ft. **Site 1 of 2 in cluster AM**

Relative:
Lower

Actual:
127 ft.

SCH:

Facility ID:	30590003
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	6
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Triss Chesney
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404320
Assembly:	69
Senate:	34
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	09/12/2005
Restricted Use:	NO
Funding:	School District
Latitude:	33.74332
Longitude:	-117.8467
APN:	NONE SPECIFIED
Past Use:	* RETIAL - MISC.
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	ELEMENTARY SCHOOL #5
Alias Type:	Alternate Name
Alias Name:	SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA ANA USD-PRPSD ELEMENTARY SCHOOL #5
Alias Type:	Alternate Name
Alias Name:	404320
Alias Type:	Project Code (Site Code)
Alias Name:	30590003
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	07/23/2002
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

ELEMENTARY SCHOOL NO. 5 (Continued) **S107736285**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 07/14/2003
Comments: DTSC issued an inactive status letter on November 4, 2002 indicating DTSC woul close out the project if a revised schedule for furture activities was not received. DTSC received verbal notification in March 2003, from the Santa Ana Unified School District that the project would likely not be active until September or October 2003.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 08/14/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/12/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 30590003
Status: Inactive - Needs Evaluation
Status Date: 09/12/2005
Site Code: 404320
Site Type: School Investigation
Site Type Detailed: School
Acres: 6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Triss Chesney
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.74332

ELEMENTARY SCHOOL NO. 5 (Continued) **S107736285**

Longitude: -117.8467
APN: NONE SPECIFIED
Past Use: * RETIAL - MISC.
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: ELEMENTARY SCHOOL #5
Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-PRPSD ELEMENTARY SCHOOL #5
Alias Type: Alternate Name
Alias Name: 404320
Alias Type: Project Code (Site Code)
Alias Name: 30590003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/23/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/27/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 07/14/2003
Comments: DTSC issued an inactive status letter on November 4, 2002 indicating DTSC woul close out the project if a revised schedule for furture activities was not received. DTSC received verbal notification in March 2003, from the Santa Ana Unified School District that the project would likely not be active until September or October 2003.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 08/14/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/12/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

ELEMENTARY SCHOOL NO. 5 (Continued) **S107736285**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AN186 **NORTH AM AVIATION** **ENVIROSTOR** **S107736910**
West **N/A**
1/2-1 **SANTA ANA, CA**
0.560 mi.
2957 ft. **Site 1 of 2 in cluster AN**

Relative:
Lower

Actual:
117 ft.

ENVIROSTOR:
Facility ID: 80000014
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.74583
Longitude: -117.8666
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F523500
Alias Type: Federal Facility ID
Alias Name: J09CA0014
Alias Type: INPR
Alias Name: 80000014
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

NORTH AM AVIATION (Continued) **S107736910**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AN187 **SANTA ANA AIR NG RREL** **ENVIROSTOR** **S107737268**
West **N/A**
1/2-1 **SANTA ANA, CA**
0.560 mi.
2957 ft. **Site 2 of 2 in cluster AN**

Relative:
Lower

Actual:
117 ft.

ENVIROSTOR:
Facility ID: 80000466
Status: Inactive - Needs Evaluation
Status Date: 07/01/2005
Site Code: Not reported
Site Type: Military Evaluation
Site Type Detailed: FUDS
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: DERA
Latitude: 33.74583
Longitude: -117.8666
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA99799F561500
Alias Type: Federal Facility ID
Alias Name: J09CA0613
Alias Type: INPR
Alias Name: 80000466
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported

SANTA ANA AIR NG RREL (Continued) **S107737268**

Schedule Revised Date: Not reported

AM188 **EECO** **RCRA-TSDF** **1000323973**
ESE **1441 EAST CHESTNUT AVENUE** **CERC-NFRAP** **CAD008256349**
1/2-1 **SANTA ANA, CA 92701** **CORRACTS**
0.577 mi. **RCRA-SQG**
3048 ft. **Site 2 of 2 in cluster AM** **FINDS**
CA FID UST
Relative: **HIST UST**
Lower **SWEEPS UST**
EMI
Actual: **HWP**
125 ft. **2020 COR ACTION**

RCRA-TSDF:
Date form received by agency: 09/01/1996
Facility name: EECO
Facility address: 1441 EAST CHESTNUT AVENUE
SANTA ANA, CA 92701
EPA ID: CAD008256349
Mailing address: 1601 EAST CHESTNUT AVENUE
SANTA ANA, CA 92701
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: EECO INCORPORATED
Owner/operator address: 1601 EAST CHESTNUT AVENUE
SANTA ANA, CA 92701
Owner/operator country: Not reported
Owner/operator telephone: (714) 835-6000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: EECO INCORPORATED
Owner/operator address: 1601 EAST CHESTNUT AVENUE
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: (714) 835-6000
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

EECO (Continued) **1000323973**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/14/1980
Site name: EECO
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 01/15/1991
Event: CA049PA

Event date: 01/15/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 01/15/1991
Event: CA029ST

Event date: 01/15/1991
Event: CA074LO

Event date: 01/27/2000
Event: RFA Completed

Event date: 01/27/2000
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 01/27/2000
Event: RFA Determination Of Need For An RFI

Event date: 01/27/2000
Event: RFA Completed, Assessment was an RFA.

Event date: 01/23/2004
Event: RFI Imposition

Event date: 03/06/2004
Event: RFI Workplan Received

Event date: 07/20/2004
Event: RFI Workplan Notice Of Deficiency Issued

Event date: 05/17/2006

EECO (Continued) **1000323973**

Event: RFI Workplan Approved

Event date: 07/08/2010
Event: CA800YE

Event date: 07/08/2010
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 07/08/2010
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 07/09/2010
Event: CA550RC

Event date: 07/09/2010
Event: CA550RC

Event date: 07/09/2010
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 07/09/2010
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Facility Has Received Notices of Violations:
Regulation violated: F - 262.50-60
Area of violation: Generators - General
Date violation determined: 09/03/1992

EECO (Continued) **1000323973**

Date achieved compliance: 10/09/1992
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 1800
Final penalty amount: 1200
Paid penalty amount: Not reported

Regulation violated: F - 261.5
Area of violation: Generators - General
Date violation determined: 09/03/1992
Date achieved compliance: 10/09/1992
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/03/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 1800
Final penalty amount: 1200
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 09/02/1992
Date achieved compliance: 10/09/1992
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/02/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 1800
Final penalty amount: 1200
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 02/14/1989
Date achieved compliance: 05/16/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 02/14/1989
Date achieved compliance: 05/16/1989

EECO (Continued) **1000323973**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/31/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 02/14/1989
Date achieved compliance: 05/16/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/31/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 02/14/1989
Date achieved compliance: 05/16/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 02/14/1989
Date achieved compliance: 05/16/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/31/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 02/14/1989
Date achieved compliance: 05/16/1989
Violation lead agency: State

EECO (Continued) **1000323973**

Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 02/08/1989
Date achieved compliance: 06/19/1989
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/10/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/29/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

EECO (Continued) **1000323973**

Enforcement action date: 03/23/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/29/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268 ALL
Area of violation: LDR - General
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/10/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 268.7
Area of violation: LDR - General
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported

EECO (Continued) **1000323973**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/10/1987
Date achieved compliance: 08/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/26/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/17/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/23/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/09/1992
Evaluation lead agency: State

Evaluation date: 02/14/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/16/1989
Evaluation lead agency: State

Evaluation date: 02/14/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/16/1989
Evaluation lead agency: State

Evaluation date: 02/08/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/19/1989
Evaluation lead agency: State

Evaluation date: 11/10/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/09/1988
Evaluation lead agency: State

EECO (Continued) **1000323973**

Evaluation date: 11/10/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 08/09/1988
Evaluation lead agency: State

Evaluation date: 11/10/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 08/09/1988
Evaluation lead agency: State

Evaluation date: 11/10/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/09/1988
Evaluation lead agency: State

CERC-NFRAP:
Site ID: 0900343
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13290626.00000
Person ID: 13003854.00000

Contact Sequence ID: 13296221.00000
Person ID: 13003858.00000

Contact Sequence ID: 13302079.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - Lead Confirmed

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 02/08/91
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

Action: DISCOVERY
Date Started: / /
Date Completed: 08/24/90
Priority Level: Not reported

EECO (Continued) **1000323973**

CORRACTS:

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20040306
Action: CA110 - RFI Workplan Received
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20100708
Action: CA800YE
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 20100708
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20100708
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 20100708
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20100709
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 20100709
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20100709
Action: CA550RC
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 20100709
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09

EECO (Continued) **1000323973**

Area Name: ENTIRE FACILITY
Actual Date: 19910115
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910115
Action: CA074LO
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910115
Action: CA029ST
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910115
Action: CA049PA
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 19861029
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20060517
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20040720
Action: CA140 - RFI Workplan Notice Of Deficiency Issued
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported

EECO (Continued) **1000323973**

Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20040123
Action: CA100 - RFI Imposition
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20000127
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 20000127
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20000127
Action: CA070 - RFA Determination Of Need For An RFI
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20000127
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008256349
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20000127
Action: CA050 - RFA Completed
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: 20000127
Schedule end date: Not reported

FINDS:

Registry ID: 110002631064

Environmental Interest/Information System

EECO (Continued) **1000323973**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CA FID UST:

Facility ID:	30012449
Regulated By:	UTNKA
Regulated ID:	00016669
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7148356000
Mail To:	Not reported
Mailing Address:	1601 E CHESTNUT AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SANTA ANA 92701
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

HIST UST:

Region:	STATE
Facility ID:	00000016669
Facility Type:	Other
Other Type:	ELECTRONIC MFG.
Contact Name:	NORMAN A. MEYER, P.E.
Telephone:	7148356000
Owner Name:	EECO INCORPORATED
Owner Address:	1601 E. CHESTNUT AVENUE
Owner City,St,Zip:	SANTA ANA, CA 92701
Total Tanks:	0007
Tank Num:	001
Container Num:	1601-01
Year Installed:	1958
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	1601-02
Year Installed:	1958
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

EECO (Continued) **1000323973**

Tank Num: 003
Container Num: 1441-01
Year Installed: Not reported
Tank Capacity: 00001400
Tank Used for: WASTE
Type of Fuel: REGULAR
Container Construction Thickness: 6''
Leak Detection: None

Tank Num: 004
Container Num: 1441-02
Year Installed: 1978
Tank Capacity: 00001600
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6''
Leak Detection: None

Tank Num: 005
Container Num: 1441-03
Year Installed: Not reported
Tank Capacity: 00001500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6''
Leak Detection: Stock Inventor

Tank Num: 006
Container Num: 1441-04
Year Installed: 1981
Tank Capacity: 00002500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 1/4''
Leak Detection: Visual

Tank Num: 007
Container Num: 1441-05
Year Installed: 1982
Tank Capacity: 00002500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 1/4''
Leak Detection: Visual

SWEEPS UST:
Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000001
Tank Status: Not reported
Capacity: 10000

EECO (Continued) **1000323973**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 7

Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000003
Tank Status: Not reported
Capacity: 1400
Active Date: Not reported
Tank Use: M.V. FUEL
STG: WASTE
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000004
Tank Status: Not reported
Capacity: 1600
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

EECO (Continued) **1000323973**

Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000005
Tank Status: Not reported
Capacity: 1500
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000006
Tank Status: Not reported
Capacity: 2500
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 50
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000050-000007
Tank Status: Not reported
Capacity: 2500
Active Date: Not reported
Tank Use: UNKNOWN
STG: WASTE
Content: Not reported
Number Of Tanks: Not reported

EMI:
Year: 1990
County Code: 30
Air Basin: SC
Facility ID: 76098
Air District Name: SC

EECO (Continued) **1000323973**

SIC Code:	0
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	24420
Air District Name:	SC
SIC Code:	36
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

HWP:

EPA Id:	CAD008256349
Cleanup Status:	CLOSED
Latitude:	33.74281
Longitude:	-117.8489
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	400216
Assembly District:	69
Senate District:	34
Public Information Officer:	Not reported

Activities:

EPA Id:	CAD008256349
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description:	New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date:	06/26/1992

EPA Id:	CAD008256349
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	09/28/1983

EPA Id:	CAD008256349

EECO (Continued) **1000323973**

Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 11/19/1980

EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 06/20/1983

EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 02/01/1988

Closure:
EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, CONTAIN2, OTHRTRT1, TANKSTR1, TANKSTR2, TANKSTR3, TANKTRT1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 05/06/1996

EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, CONTAIN2, OTHRTRT1, TANKSTR1, TANKSTR2, TANKSTR3, TANKTRT1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 12/27/1995

Alias:
EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: RAYMOND VILLA SCHOOL

EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 30360188

EPA Id: CAD008256349
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 400216

2020 COR ACTION:
EPA ID: CAD008256349
Region: 9
Action: Not reported

189
ESE
1/2-1
0.590 mi.
3113 ft.

E. CHESTNUT SA PROPERTY
1538 E. CHESTNUT AVE
SANTA ANA, CA 92701

Orange Co. Industrial Site **S108723981**
ENVIROSTOR **N/A**

Relative:
Lower

Actual:
124 ft.

Orange Co. Industrial Site:
Case ID: 07IC012
Region: ORANGE
Record ID: RO0003441
Current Status: CLOSED 6/20/2008
Closure Type: Voluntary Cleanup Program Termination
Released Chemical: PERCHLOROETHYLENE; TRICHLOROTHYLENE

ENVIROSTOR:
Facility ID: 60000732
Status: Refer: 1248 Local Agency
Status Date: 07/11/2007
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: ORANGE COUNTY
Lead Agency: ORANGE COUNTY
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: Not reported
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 60000732
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 05/11/2010
Comments: The County of Orange submitted a notification to DTSC of a Remedial Investigation/action oversight to be conducted at the subject property.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

E. CHESTNUT SA PROPERTY (Continued) **S108723981**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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190 NNW 1/2-1 0.620 mi. 3273 ft.

DAVIS ELEMENTARY SCHOOL EXPANSION
605/611/615 EAST WASHINGTON AVENUE
SANTA ANA, CA 92701

SCH ENVIROSTOR **S107736207 N/A**

Relative: Higher

Actual: 142 ft.

SCH:

Facility ID:	30590001
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	Not reported
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404052
Assembly:	69
Senate:	34
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	07/09/2004
Restricted Use:	NO
Funding:	School District
Latitude:	33.74332
Longitude:	-117.8467
APN:	NONE SPECIFIED
Past Use:	* RETIAL - MISC.
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	DAVIS ELEMENTARY SCHOOL EXP - PROPOSED
Alias Type:	Alternate Name
Alias Name:	DAVIS ELEMENTARY SCHOOL EXPANSION
Alias Type:	Alternate Name
Alias Name:	SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SANTA ANA USD-DAVIS ELEM/VCA
Alias Type:	Alternate Name
Alias Name:	110033616647
Alias Type:	EPA (FRS #)
Alias Name:	404052
Alias Type:	Project Code (Site Code)
Alias Name:	30590001
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement

DAVIS ELEMENTARY SCHOOL EXPANSION (Continued) **S107736207**

Completed Date: 04/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/22/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/26/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 07/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/09/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 30590001
Status: Inactive - Needs Evaluation
Status Date: 07/09/2004
Site Code: 404052
Site Type: School Cleanup
Site Type Detailed: School
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District

DAVIS ELEMENTARY SCHOOL EXPANSION (Continued) **S107736207**

Latitude: 33.74332
Longitude: -117.8467
APN: NONE SPECIFIED
Past Use: * RETIAL - MISC.
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: DAVIS ELEMENTARY SCHOOL EXP - PROPOSED
Alias Type: Alternate Name
Alias Name: DAVIS ELEMENTARY SCHOOL EXPANSION
Alias Type: Alternate Name
Alias Name: SANTA ANA UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SANTA ANA USD-DAVIS ELEM/VCA
Alias Type: Alternate Name
Alias Name: 110033616647
Alias Type: EPA (FRS #)
Alias Name: 404052
Alias Type: Project Code (Site Code)
Alias Name: 30590001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/22/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 01/26/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Workplan
Completed Date: 07/18/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/09/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

DAVIS ELEMENTARY SCHOOL EXPANSION (Continued) **S107736207**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

191
West
1/2-1
0.622 mi.
3286 ft.

EDISON/SANTA ANA II (SYCAMORE ST) MGP **VCP** **S106568265**
NW. OF 2ND ST. AND SYCAMORE ST. **ENVIROSTOR** **N/A**
SANTA ANA, CA 92704

Relative:
Lower

Actual:
118 ft.

VCP:
Facility ID: 30490110
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Manjul Bose
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Site Code: 400451
Assembly: 69
Senate: 34
Special Programs Code: Voluntary Cleanup Program
Status: Active
Status Date: 05/24/2001
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 33.74638 / -117.8677
APN: NONE SPECIFIED
Past Use: ELECTRIC GENERATION/SUBSTATION, MANUFACTURED GAS PLANT
Potential COC: 30019, 30022, 30027
Confirmed COC: 30019,30022,30027
Potential Description: SOIL
Alias Name: BOOK 398, PG 26, BLOCK 7, PARCELS 4, 5,6
Alias Type: Alternate Name
Alias Name: TOWN GAS PLANT SANTA ANA II
Alias Type: Alternate Name
Alias Name: 110033614499
Alias Type: EPA (FRS #)
Alias Name: 398-267-04
Alias Type: EPA (FRS #)
Alias Name: 398-267-05
Alias Type: EPA (FRS #)
Alias Name: 398-267-06
Alias Type: EPA (FRS #)
Alias Name: 400451
Alias Type: Project Code (Site Code)
Alias Name: 30490110
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

Completed Document Type: Removal Action Workplan
Completed Date: 09/19/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 06/27/2001
Comments: DTSC approves the RI/FS for the site. The FS recommended removal of volatile organic compounds via soil vapor extraction and soil excavation with offsite treatment for PAHs contaminated soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/19/1995
Comments: DTSC reviews and approves the PEA Report. The investigation showed PAHs, VOCs, and heavy metals contamination at the site. DTSC recommends further investigation of the site in the form of a Remedial Investigation/Feasibility study (RI/FS). A deed restriction is also recommended to preclude any changes in the existing or planned future uses without further investigation of the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/17/2006
Comments: Supplemental Soil Gas Survey Workplan approved by DTSC on 5/17/2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/21/2006
Comments: Supplemental Soil Gas Survey completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/02/2008
Comments: DTSC approved the Final RAW on July 2, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/22/2008
Comments: The comment period started on 5/2/08 to 6/2/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/04/1999
Comments: Transition to Chapter 6.5 - Amendment to the existing Consent Order, Docket No. 95/96-009 signed by RPs. John Fielder: 12/11/98 and Robert G. Vogel: 12/21/98

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/25/2008
Comments: NOE for Edison Santa Ana II MGP - Electrical Substation was signed on 3/25/08. NOE document was sent to Office of Planning & Research (OPR). Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/24/2001
Comments: VCP (RAW was signed on 5/24/2001 (complete)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/22/2008
Comments: The comment period started on 5/2/08 to 6/2/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/10/2008
Comments: Approximately 60 truck loads of contaminated soil was excavated from the site and disposed off at a certified recycling facility in Adelante, CA. Fieldwork is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/18/2014
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/31/2009
Comments: Final document was received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/01/2009
Comments: RAW was completed in 2002, report was completed in 2003.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 05/22/2014
Comments: SVES and MW closure approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/29/1995
Comments: DTSC enters into a Consent Order with the Southern California Gas/Edison Companies to conduct a Remedial Investigation/Feasibility Study for the Santa Ana II MGP site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: The Department of Toxic Substances Control (DTSC) enters into a voluntary Cleanup Agreement with the Southern California Edison to conduct a Preliminary Endangerment Assessment at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2012
Comments: Received correspondence from NOREAS, the new consultant for Edison Santa Ana II Project

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/12/2009
Comments: Certification of the Western Parcel (Historical Building)

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 02/09/2015
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 30490110
Status: Active
Status Date: 05/24/2001
Site Code: 400451
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.2
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Manjul Bose
Supervisor: Javier Hinojosa

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

Division Branch: Cleanup Chatsworth
Assembly: 69
Senate: 34
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 33.74638
Longitude: -117.8677
APN: NONE SPECIFIED
Past Use: ELECTRIC GENERATION/SUBSTATION, MANUFACTURED GAS PLANT
Potential COC: Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: SOIL
Alias Name: BOOK 398, PG 26, BLOCK 7, PARCELS 4, 5,6
Alias Type: Alternate Name
Alias Name: TOWN GAS PLANT SANTA ANA II
Alias Type: Alternate Name
Alias Name: 110033614499
Alias Type: EPA (FRS #)
Alias Name: 398-267-04
Alias Type: EPA (FRS #)
Alias Name: 398-267-05
Alias Type: EPA (FRS #)
Alias Name: 398-267-06
Alias Type: EPA (FRS #)
Alias Name: 400451
Alias Type: Project Code (Site Code)
Alias Name: 30490110
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 09/19/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 06/27/2001
Comments: DTSC approves the RI/FS for the site. The FS recommended removal of volatile organic compounds via soil vapor extraction and soil excavation with offsite treatment for PAHs contaminated soils.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 01/19/1995
Comments: DTSC reviews and approves the PEA Report. The investigation showed PAHs, VOCs, and heavy metals contamination at the site. DTSC recommends further investigation of the site in the form of a Remedial Investigation/Feasibility study (RI/FS). A deed restriction is also recommended to preclude any changes in the existing or planned future uses without further investigation of the site.

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 05/17/2006
Comments: Supplemental Soil Gas Survey Workplan approved by DTSC on 5/17/2006

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/21/2006
Comments: Supplemental Soil Gas Survey completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 07/02/2008
Comments: DTSC approved the Final RAW on July 2, 2008.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/22/2008
Comments: The comment period started on 5/2/08 to 6/2/08.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 01/04/1999
Comments: Transition to Chapter 6.5 - Amendment to the existing Consent Order, Docket No. 95/96-009 signed by RPs. John Fielder: 12/11/98 and Robert G. Vogel: 12/21/98

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/25/2008
Comments: NOE for Edison Santa Ana II MGP - Electrical Substation was signed on 3/25/08. NOE document was sent to Office of Planning & Research (OPR). Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/24/2001
Comments: VCP (RAW was signed on 5/24/2001 (complete)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 04/22/2008
Comments: The comment period started on 5/2/08 to 6/2/08

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/10/2008
Comments: Approximately 60 truck loads of contaminated soil was excavated from

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

the site and disposed off at a certified recycling facility in Adelante, CA. Fieldwork is complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 04/18/2014
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 08/31/2009
Comments: Final document was received

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 07/01/2009
Comments: RAW was completed in 2002, report was completed in 2003.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Well Decommissioning Workplan
Completed Date: 05/22/2014
Comments: SVES and MW closure approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 11/03/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Amendment - Order/Agreement
Completed Date: 09/29/1995
Comments: DTSC enters into a Consent Order with the Southern California Gas/Edison Companies to conduct a Remedial Investigation/Feasibility Study for the Santa Ana II MGP site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 05/10/1994
Comments: The Department of Toxic Substances Control (DTSC) enters into a voluntary Cleanup Agreement with the Southern California Edison to conduct a Preliminary Endangerment Assessment at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2012
Comments: Received correspondence from NOREAS, the new consultant for Edison Santa Ana II Project

Completed Area Name: PROJECT WIDE

EDISON/SANTA ANA II (SYCAMORE ST) MGP (Continued) **S106568265**

Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/31/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/12/2009
Comments: Certification of the Western Parcel (Historical Building)

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Certification
Future Due Date: 2015
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 02/09/2015
Schedule Revised Date: Not reported

192
WSW
1/2-1
0.624 mi.
3297 ft.

G AND H RADIATOR SERVICE **HIST CORTESE** **S105026403**
120 MAIN **ENVIROSTOR** **N/A**
SANTA ANA, CA 92701

Relative:
Lower

Actual:
114 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: CALSI
Reg Id: 30750008

ENVIROSTOR:
Facility ID: 30750008
Status: Refer: Other Agency
Status Date: 10/18/1988
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.74555
Longitude: -117.8675
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED

G AND H RADIATOR SERVICE (Continued) **S105026403**

Potential COC: * CONTAMINATED SOIL
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 30750008
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/28/1994
Comments: DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/21/1988
Comments: PRELIM ASSESS DONE NFA FOR STATE: PA SHOULD BE DONE ON AD- JACENT LOT WHERE UG TANK IS LOCATED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/08/1987
Comments: SITE SCREENING DONE CERCLA GRANT PROGRAM

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

193
WSW
1/2-1
0.641 mi.
3385 ft.

224 SOUTH MAIN STREET
SANTA ANA, CA 90603

Notify 65 **S100179519**
N/A

Relative:
Lower

Actual:
111 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 90603

194
West
1/2-1
0.704 mi.
3717 ft.

EDISON/SANTA ANA MGP
NW OF 2ND ST AND SYCAMORE ST
SANTA ANA, CA 92704

EDR MGP **1008407771**
N/A

Relative:
Lower

Actual:
117 ft.

Manufactured Gas Plants:

The former Santa Ana Manufactured Gas Plant (MGP) site is a contiguous property divided into western and eastern portions. The western portion of the site is currently occupied by a vacant historical building. The eastern portion of the site is curreently occupied by an active Southern California Edison electric substa- tion. The site is presently surrounded by a commercial/municipal neighborhood within 350 feet of the site. A community hospital and a school are located approximately 1.5 miles ffrom the site. Town gas plants were the primary source of household heating and lighting in the 1900s. Coal as well as oil were the raw materials used to manufacture gas products. By-products of this operation include tars and lampblack which containn polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and heavy metals. Although hazardous waste management was not common practice in the early days, water separations and recy- cling to recover and/or treat effluents may havve been employed at town gas sites. However, incidences of spills and leaks may have also been common. Approximately 125 million cubic feet of g were produced at the site during its years of operation. The western portion of the site currently occupiies a vacant historical office building which is located in a business area that has undergone renovation. The city of Santa Ana plans to develop the building for commercial and business purposes.

195
East
1/2-1
0.728 mi.
3842 ft.

COMPAK FOODS
SANTA ANA, CA

ENVIROSTOR **S107736155**
N/A

Relative:
Higher

Actual:
132 ft.

ENVIROSTOR:

Facility ID:	80000999
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	69
Senate:	34
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.74583
Longitude:	-117.8430
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CA99799FA38600

COMPAK FOODS (Continued) **S107736155**

Alias Type: Federal Facility ID
Alias Name: J09CA7358
Alias Type: INPR
Alias Name: 80000999
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 05/26/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

196
SW
1/2-1
0.844 mi.
4458 ft.

MAIN PHOTO SERVICE, INC.
827 S. MAIN STREET
SANTA ANA, CA 92701

ENVIROSTOR **S110494032**
N/A

Relative:
Lower

Actual:
100 ft.

ENVIROSTOR:
Facility ID: 71003281
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.73713
Longitude: -117.8672
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000073037
Alias Type: EPA Identification Number

MAIN PHOTO SERVICE, INC. (Continued) **S110494032**

Alias Name: 71003281
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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197 South 1/2-1 0.877 mi. 4628 ft.

MARKLAND MANUFACTURING, INC. **RCRA-LQG 1000290090**
1111 EAST MCFADDEN AVENUE **NPDES CAD981686330**
SANTA ANA, CA 92705 **ENVIROSTOR**

Relative: Lower

Actual: 99 ft.

RCRA-LQG:
Date form received by agency: 03/01/2014
Facility name: MARKLAND MANUFACTURING, INC.
Facility address: 1111 EAST MCFADDEN AVENUE
SANTA ANA, CA 92705
EPA ID: CAD981686330
Mailing address: EAST MCFADDEN AVENUE
SANTA ANA, CA 92705
Contact: MIGUEL ARMENTA
Contact address: EAST MCFADDEN AVENUE
SANTA ANA, CA 92705
Contact country: US
Contact telephone: (714) 245-2850
Contact email: LARMENTA@MARKLANDINDUSTRIES.COM 11NNN
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: MARKLAND FAMILY PARTNERSHIP

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

Owner/operator address: 1111 E MCFADDEN AVE
SANTA ANA, CA 92705
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1996
Owner/Op end date: Not reported

Owner/operator name: MARKLAND MANUFACTURING, INC.
Owner/operator address: EAST MCFADDEN AVENUE
SANTA ANA, CA 92705
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1996
Owner/Op end date: Not reported

Owner/operator name: MARKLAND FAMILY PARTNERSHIP
Owner/operator address: EAST MCFADDEN AVENUE
SANTA ANA, CA 92705
Owner/operator country: Not reported
Owner/operator telephone: 7142452850 145
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1996
Owner/Op end date: Not reported

Owner/operator name: MARKLAND MANUFACTURING INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1996
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: Yes
Used oil transfer facility: No
Used oil transporter: No

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

Historical Generators:
Date form received by agency: 03/16/2012
Site name: MARKLAND MANUFACTURING, INC.
Classification: Large Quantity Generator

Date form received by agency: 01/26/2010
Site name: MARKLAND MANUFACTURING, INC.
Classification: Large Quantity Generator

Date form received by agency: 01/16/2008
Site name: MARKLAND MANUFACTURING, INC.
Classification: Large Quantity Generator

Date form received by agency: 06/28/2006
Site name: MARKLAND MANUFACTURING INC
Classification: Large Quantity Generator

Date form received by agency: 02/23/2006
Site name: MARKLAND MANUFACTURING, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/31/2004
Site name: MARKLAND MANUFACTURING INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: AMFLO PRODUCTS
Classification: Small Quantity Generator

Date form received by agency: 10/07/1986
Site name: AMFLO PRODUCTS
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 121
Waste name: 121

Waste code: 171
Waste name: 171

Waste code: 181
Waste name: 181

Waste code: 213
Waste name: 213

Waste code: 223
Waste name: 223

Waste code: 331
Waste name: 331

Waste code: 352
Waste name: 352

Waste code: D001

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste code: 121
Waste name: 121

Waste code: 122
Waste name: 122

Waste code: 171
Waste name: 171

Waste code: 181
Waste name: 181

Waste code: 213
Waste name: 213

Waste code: 223
Waste name: 223

Waste code: 331

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

Waste name: 331

Waste code: 352
Waste name: 352

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
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MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

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Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

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Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

ALUMINUM.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 8965.5

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Amount (Lbs): 402632

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 02/22/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/27/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/19/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/26/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

NPDES:

Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 208823
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 30I012125
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/02/1996
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Markland Manufacturing Inc
Discharge Address: 1111 E Mcfadden Ave
Discharge City: Santa Ana
Discharge State: California
Discharge Zip: 92705

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

ENVIROSTOR:
Facility ID: 71003380
Status: Inactive - Needs Evaluation
Status Date: 09/06/2005
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Robert Senga
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.73401
Longitude: -117.8532
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000177837
Alias Type: EPA Identification Number
Alias Name: 71003380
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/06/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 09/06/2005
Comments: Inspection report sent on 9/6/2005

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 06/30/2007
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported

MARKLAND MANUFACTURING, INC. (Continued) **1000290090**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

198
SSE
1/2-1
0.879 mi.
4639 ft.

BREAK-FREE, INC.
1035 S. LINWOOD AVENUE
SANTA ANA, CA 92705

Orange Co. Industrial Site **S108225540**
ENVIROSTOR **N/A**

Relative:
Lower

Actual:
108 ft.

Orange Co. Industrial Site:
Case ID: 00IC006
Region: ORANGE
Record ID: RO0000025
Current Status: CLOSED 3/5/2001
Closure Type: Closure certification issued
Released Chemical: SOLVENTS-HALOGENATED

ENVIROSTOR:
Facility ID: 30280535
Status: Refer: 1248 Local Agency
Status Date: 03/15/2000
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: ORANGE COUNTY
Lead Agency: ORANGE COUNTY
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 33.73589
Longitude: -117.8478
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 30280535
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 03/10/2000
Comments: DTSC is not involved with this project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported

BREAK-FREE, INC. (Continued) **S108225540**

Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SANTA ANA	S102361516	SANTA ANA VALLEY IRRIGATION DUMP #	E BANK OF SANTA ANA RIVER, S O		SWF/LF
SANTA ANA	S115779961	IN-N-OUT (NORTHEAST CORNER 17TH AN	NORTHEAST CORNER 17TH AND TUST	92705	VCP, ENVIROSTOR

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/03/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 24

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 24

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/16/2015
Date Data Arrived at EDR: 02/17/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 14

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/17/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 15

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 01/21/2015
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 15

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/21/2015
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 11/05/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 12

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/10/2014
Date Data Arrived at EDR: 11/14/2014
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 87

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/04/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 10

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/06/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 19

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 6

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 01/21/2015
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/23/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/06/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 8

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 11/05/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 12

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/13/2014
Date Data Arrived at EDR: 11/18/2014
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 83

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/04/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 10

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/10/2014
Date Data Arrived at EDR: 11/14/2014
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 87

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 24

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/31/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014
Date Data Arrived at EDR: 12/22/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/15/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/26/2015
Number of Days to Update: 42
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 12/01/2014
Date Data Arrived at EDR: 12/01/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 53
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/10/2014
Date Data Arrived at EDR: 12/01/2014
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 70
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 24
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 09/02/2014
Date Made Active in Reports: 09/24/2014
Number of Days to Update: 22
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/10/2014
Date Data Arrived at EDR: 12/01/2014
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 70

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 12/15/2014
Date Data Arrived at EDR: 12/18/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/08/2014
Date Data Arrived at EDR: 12/09/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 45

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/09/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/28/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 15

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/21/2015
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 15

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 01/21/2015
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/24/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/31/2014
Date Data Arrived at EDR: 10/29/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 8

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/09/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/16/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 21

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/04/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/07/2014
Date Data Arrived at EDR: 10/08/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/16/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 11/19/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 45

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/16/2015
Date Data Arrived at EDR: 02/17/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 15
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/17/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 36
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/18/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/28/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 08/21/2014
Number of Days to Update: 49
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/23/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/26/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/16/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/24/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/18/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 11/13/2014
Date Data Arrived at EDR: 12/09/2014
Date Made Active in Reports: 01/26/2015
Number of Days to Update: 48

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/09/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/12/2015
Date Data Arrived at EDR: 01/13/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/13/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/15/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/26/2015
Number of Days to Update: 42

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: N/A

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 25

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 11

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/19/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 02/06/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 02/06/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Annually

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 12/08/2014
Date Data Arrived at EDR: 12/11/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 43

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 11/20/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/07/2015
Number of Days to Update: 44

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/06/2014
Date Data Arrived at EDR: 10/07/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 43

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 7

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/02/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 01/16/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 20

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 39

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/10/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 19

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/22/2014
Date Data Arrived at EDR: 11/12/2014
Date Made Active in Reports: 12/19/2014
Number of Days to Update: 37

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/21/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/30/2014
Number of Days to Update: 35

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/20/2015
Date Data Arrived at EDR: 01/21/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 15

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/19/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/18/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 33

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/19/2015
Date Data Arrived at EDR: 01/20/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 16

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/20/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/19/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/07/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/25/2014
Number of Days to Update: 28

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/19/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/20/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 01/29/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 12

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 10/02/2014
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 11/20/2014
Number of Days to Update: 48

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 12/01/2014
Date Data Arrived at EDR: 12/05/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 49

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 12/18/2014
Date Data Arrived at EDR: 12/19/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 35

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/12/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/06/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 18

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 13

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/08/2014
Date Data Arrived at EDR: 12/09/2014
Date Made Active in Reports: 01/26/2015
Number of Days to Update: 48
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 33
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 28
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/22/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 01/07/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 27
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/07/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/03/2014
Date Data Arrived at EDR: 01/09/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 25
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/02/2014
Date Data Arrived at EDR: 12/04/2014
Date Made Active in Reports: 01/26/2015
Number of Days to Update: 53

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2014
Date Data Arrived at EDR: 11/21/2014
Date Made Active in Reports: 12/29/2014
Number of Days to Update: 38

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/04/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/12/2015
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 7

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 01/09/2015
Date Data Arrived at EDR: 01/12/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 22

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/15/2014
Date Data Arrived at EDR: 12/18/2014
Date Made Active in Reports: 01/26/2015
Number of Days to Update: 39

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/11/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/25/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 6

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/23/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/04/2015
Number of Days to Update: 8

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/24/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 12/31/2014
Number of Days to Update: 36

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/11/2014
Date Made Active in Reports: 01/23/2015
Number of Days to Update: 43

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/17/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/05/2015
Number of Days to Update: 42

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/11/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/17/2014
Date Data Arrived at EDR: 12/01/2014
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 57

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/11/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 01/06/2015
Date Data Arrived at EDR: 01/09/2015
Date Made Active in Reports: 02/05/2015
Number of Days to Update: 27

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/02/2015
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 02/03/2015
Number of Days to Update: 28

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/29/2014
Next Scheduled EDR Contact: 04/13/2015
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/08/2014
Date Data Arrived at EDR: 12/08/2014
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 50

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/05/2014
Next Scheduled EDR Contact: 03/23/2015
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/03/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 24

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 01/27/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/05/2015
Next Scheduled EDR Contact: 04/20/2015
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 32

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2014
Date Data Arrived at EDR: 12/15/2014
Date Made Active in Reports: 02/02/2015
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/15/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2014
Date Data Arrived at EDR: 12/23/2014
Date Made Active in Reports: 01/27/2015
Number of Days to Update: 35

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/18/2014
Next Scheduled EDR Contact: 04/06/2015
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/17/2015
Date Data Arrived at EDR: 02/19/2015
Date Made Active in Reports: 03/03/2015
Number of Days to Update: 12

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/12/2015
Next Scheduled EDR Contact: 04/27/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2015
Date Data Arrived at EDR: 02/04/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/04/2015
Next Scheduled EDR Contact: 05/18/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/19/2015
Next Scheduled EDR Contact: 05/04/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 08/07/2014
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/12/2014
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

EXTRA SPACE STORAGE #1536
1030 EAST 4TH STREET
SANTA ANA, CA 92701

TARGET PROPERTY COORDINATES

Latitude (North):	33.7472 - 33° 44' 49.92''
Longitude (West):	117.8561 - 117° 51' 21.96''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	420704.7
UTM Y (Meters):	3734262.0
Elevation:	131 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33117-F7 TUSTIN, CA
Most Recent Revision:	1981
North Map:	33117-G7 ORANGE, CA
Most Recent Revision:	1981

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

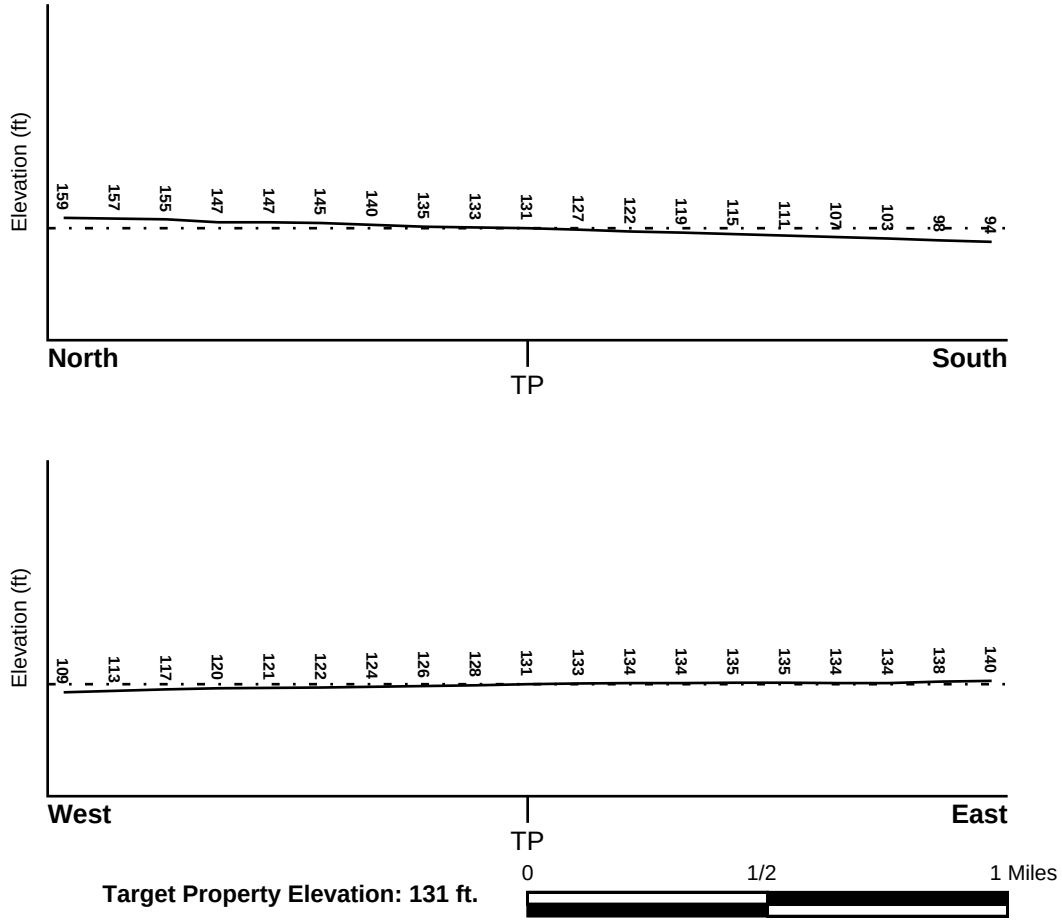
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 131 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ORANGE, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06059C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
TUSTIN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile WSW
Site Name:	Old Dry Cleaner
Site EPA ID Number:	CAD981164510
Groundwater Flow Direction:	NE AND TOWARD LAGUNA DE SANTA ROSA ON A REGIONAL BASIS, BUT IS AFFECTED BY PUMPING OF MUNICIPAL SUPPLY WELLS. IN PARTICULAR WELL #5, LOCATED WITHIN 1,000 FEET EAST OF THE SITE HAD A CAPTURE ZONE OF 1,000 FEET FROM THE WELL.
Measured Depth to Water:	as shallow as 2 feet.
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifer(s) underlying the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
10	1/2 - 1 Mile SSE	WSW
12	1/2 - 1 Mile NNE	S

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

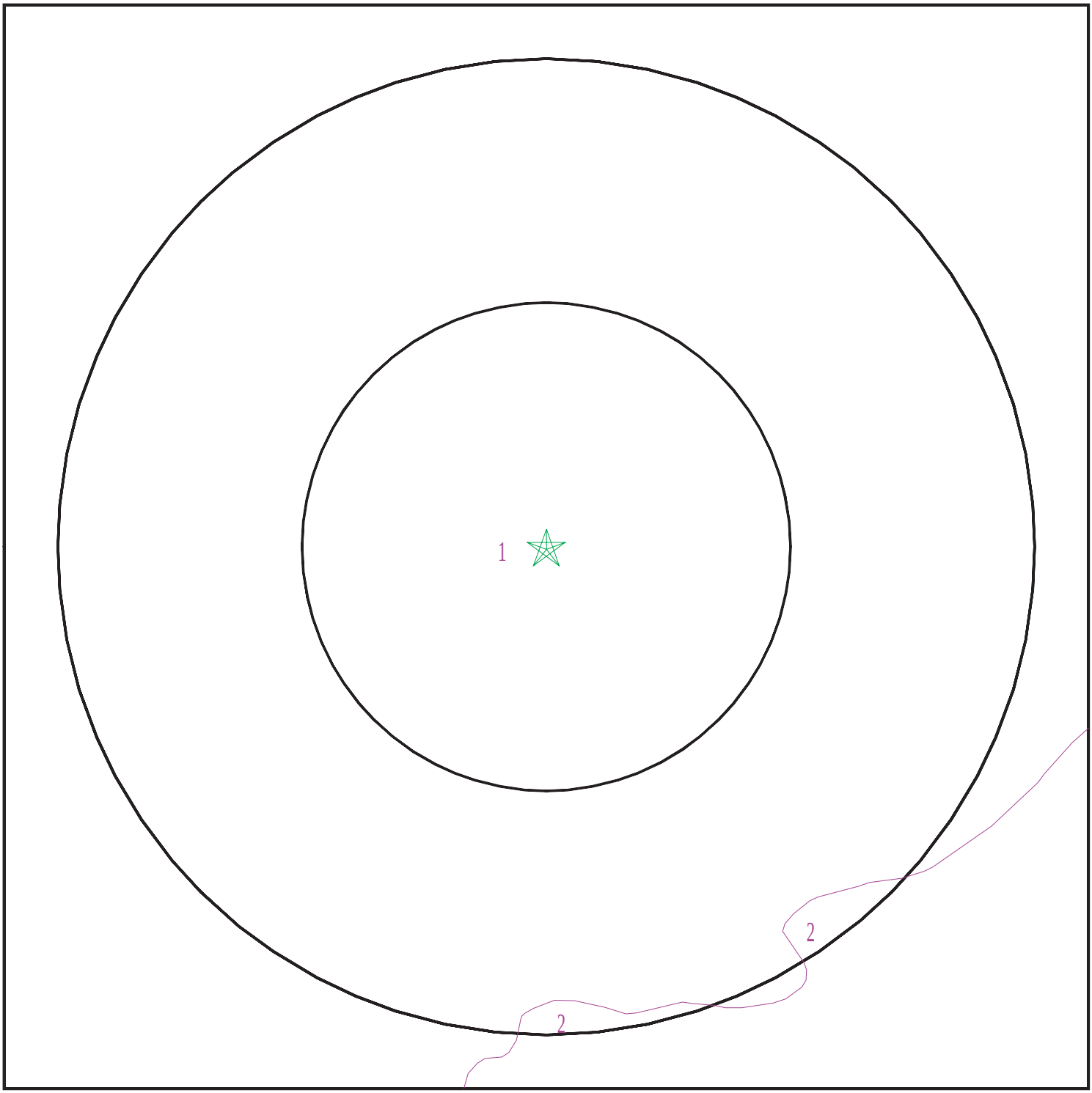
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4228390.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Extra Space Storage #1536	CLIENT:	Vertex Engineering Services
ADDRESS:	1030 East 4th Street Santa Ana CA 92701	CONTACT:	Samir Raman
LAT/LONG:	33.7472 / -117.8561	INQUIRY #:	4228390.2s
		DATE:	March 09, 2015 4:20 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: MOCHO

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	31 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	31 inches	61 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.9
2	7 inches	61 inches	stratified gravelly loamy coarse sand to very fine sandy loam	Not reported	Not reported	Max: 42 Min: 14	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
11	USGS40000137756	1/2 - 1 Mile ESE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	CA3010038	1/2 - 1 Mile West

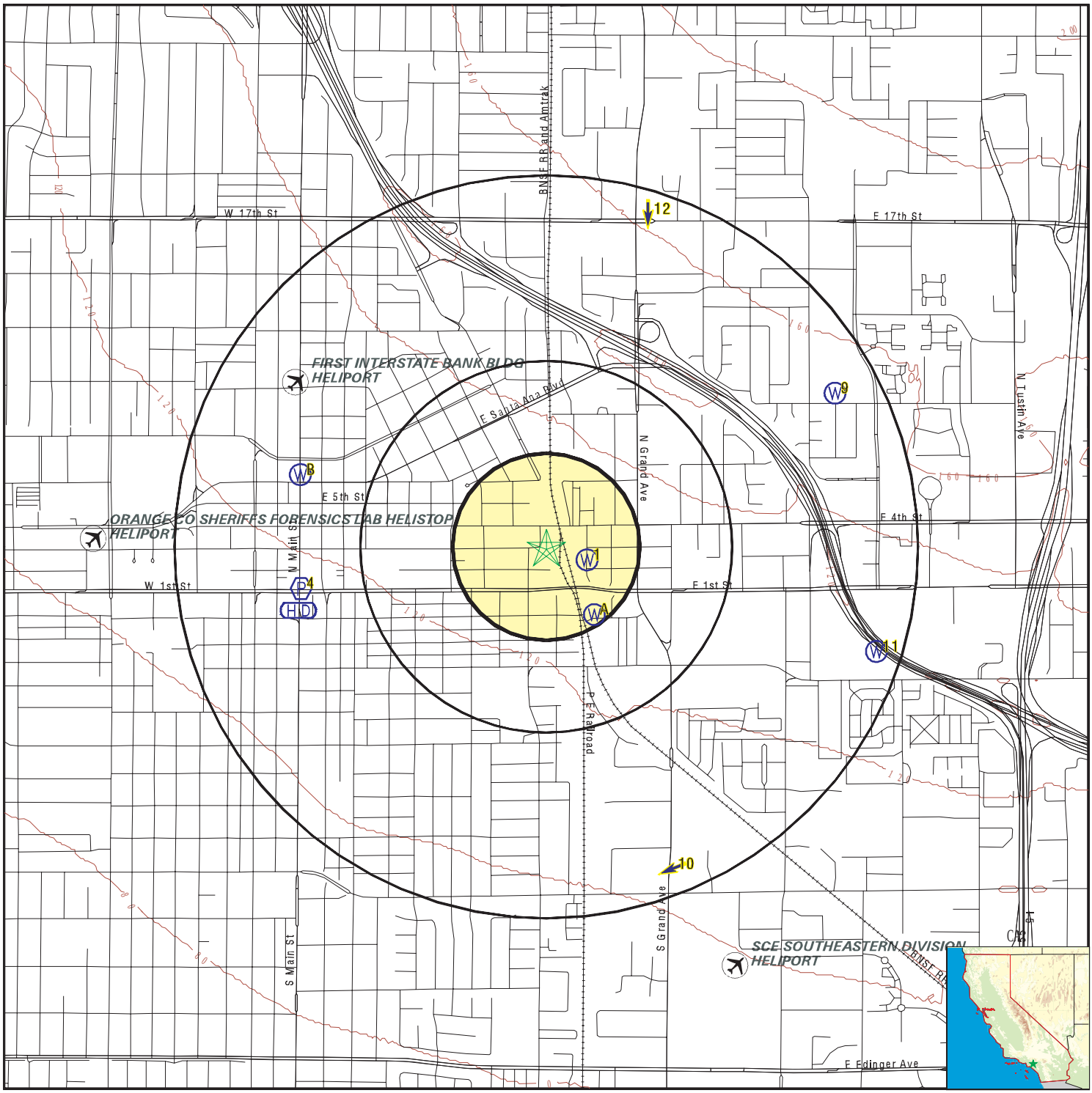
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	6137	0 - 1/8 Mile ESE
A2	CADW50000003003	1/8 - 1/4 Mile SE
A3	CADW50000002998	1/8 - 1/4 Mile SSE
B5	6235	1/2 - 1 Mile WNW
B6	6236	1/2 - 1 Mile WNW
B7	6238	1/2 - 1 Mile WNW
B8	6234	1/2 - 1 Mile WNW
9	CADW50000003052	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 4228390.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Extra Space Storage #1536	CLIENT: Vertex Engineering Services
ADDRESS: 1030 East 4th Street Santa Ana CA 92701	CONTACT: Samir Raman
LAT/LONG: 33.7472 / -117.8561	INQUIRY #: 4228390.2s DATE: March 09, 2015 4:20 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
ESE
0 - 1/8 Mile
Higher

CA WELLS **6137**

Water System Information:

Prime Station Code:	05S/09W-18A01 S	User ID:	TEE
FRDS Number:	3000757001	County:	Orange
District Number:	08	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	334448.0 1175112.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 01 - ABANDONED		
System Number:	3000757		
System Name:	Diamond Newport Corporation		
Organization That Operates System:			
	1105 E. WALNUT ST.		
	SANTA ANA, CA 92701		
Pop Served:	100	Connections:	1
Area Served:	Not Reported		

A2
SE
1/8 - 1/4 Mile
Lower

CA WELLS **CADW50000003003**

Latitude :	33.7447		
Longitude :	117.8536		
Site code:	337447N1178536W001	Casgem sta:	05S09W18A001S
Local well:	Not Reported	Casgem s 1:	Unknown
County id:	30		
Basin cd:	8-1	Basin desc:	Coastal Plain Of Orange County
Org unit n:	Southern Region Office	Site id:	CADW50000003003

A3
SSE
1/8 - 1/4 Mile
Lower

CA WELLS **CADW50000002998**

Latitude :	33.7444		
Longitude :	117.8541		
Site code:	337444N1178541W001	Casgem sta:	05S09W18A002S
Local well:	Not Reported	Casgem s 1:	Unknown
County id:	30		
Basin cd:	8-1	Basin desc:	Coastal Plain Of Orange County
Org unit n:	Southern Region Office	Site id:	CADW50000002998

4
West
1/2 - 1 Mile
Lower

FRDS PWS **CA3010038**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Epa region:	09	State:	CA
Pwsid:	CA3010038		
Pwsname:	CITY OF SANTA ANA		
City served:	Not Reported	State served:	CA
Zip served:	Not Reported	Fips county:	06059
Status:	Active	Pop srvd:	353428
Pwssvcconn:	44610	Source:	Purch_surface_water
Pws type:	CWS	Owner:	Local_Govt
Contact:	SABA, NABIL		
Contactor gname:	SABA, NABIL		
Contact phone:	714-647-3318	Contact address1:	220 SOUTH DAISY AVE. BLDG A
Contact address2:	Not Reported	Contact city:	SANTA ANA
Contact state:	CA	Contact zip:	92703
Activity code:	A		

Facid:	2709		
Facname:	WELL 16 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2741		
Facname:	WELL 18 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2752		
Facname:	WELL 37 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	organics removal	Treatment process:	hypochlorination, pre
Facid:	2754		
Facname:	WELL 41 CHLORINATION XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2764		
Facname:	WELL 34 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2765		
Facname:	WELL 20, 21, 30 CHLORINATION XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2767		
Facname:	WELL 24 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2768		
Facname:	WELL 26 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2769		
Facname:	WELL 27 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2770		
Facname:	WELL 28 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A
Treatment obj:	disinfection	Treatment process:	hypochlorination, post
Facid:	2771		
Facname:	WELL 29 - TRT CL - XCLD		
Facility type:	Treatment_plant	Activity code:	A

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Location Information:

Name:	CITY OF SANTA ANA		
Pwstypcd:	CWS	Primsrccd:	SWP
Popserved:	353428		
Add1:	220 SOUTH DAISY AVE. BLDG A		
Add2:	Not Reported		
City:	SANTA ANA	State:	CA
Zip:	92703	Phone:	714-647-3318
Cityserv:	SANTA ANA	Cntyserv:	Orange
Stateserv:	CA	Zipserv:	Not Reported

Enforcement Information:

Violation id:	Not Reported	Orig cd:	F
Enf fy:	2000	Enf act date:	03/01/2000
Enf act detail:	Fed Compliance achieved	Enf act cat:	Not Reported

Enforcement Information:

Violation id:	Not Reported	Orig cd:	S
Enf fy:	2005	Enf act date:	01/05/2005
Enf act detail:	St BCA signed	Enf act cat:	Not Reported

Enforcement Information:

Violation id:	Not Reported	Orig cd:	S
Enf fy:	2013	Enf act date:	08/29/2013
Enf act detail:	St Formal NOV issued	Enf act cat:	Not Reported

Enforcement Information:

Violation id:	9308006	Orig cd:	S
Enf fy:	2013	Enf act date:	06/11/2013
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	9308006	Orig cd:	S
Enf fy:	2013	Enf act date:	08/29/2013
Enf act detail:	St Violation/Reminder Notice	Enf act cat:	Informal

Enforcement Information:

Violation id:	9308005	Orig cd:	S
Enf fy:	2013	Enf act date:	08/29/2013
Enf act detail:	St Violation/Reminder Notice	Enf act cat:	Informal

Enforcement Information:

Violation id:	9308005	Orig cd:	S
Enf fy:	2013	Enf act date:	06/11/2013
Enf act detail:	St Compliance achieved	Enf act cat:	Resolving

Enforcement Information:

Violation id:	9308004	Orig cd:	S
Enf fy:	2010	Enf act date:	06/21/2010
Enf act detail:	St Formal NOV issued	Enf act cat:	Informal

Violations Information:

Violoation id:	9308006	Orig cd:	S
State:	CA	Viol fy:	2013
Contamcd:	2456		
Contamnm:	Total Haloacetic Acids (HAA5)		
Viol code:	30		
Viol name:	Monitoring, Routine (IDSE)		
Rule code:	220		
Rule name:	St2 DBP		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported

State mcl: Not Reported Cmpbdt: 01/01/2013
Cmpedt: 03/31/2013

Violations Information:
Violoation id: 9308005 Orig cd: S
State: CA Viol fy: 2013
Contamcd: 2950
Contamnm: TTHM
Viol code: 30
Viol name: Monitoring, Routine (IDSE)
Rule code: 220
Rule name: St2 DBP
Violmeasur: Not Reported Unitmeasur: Not Reported
State mcl: Not Reported Cmpbdt: 01/01/2013
Cmpedt: 03/31/2013

Violations Information:
Violoation id: 9308004 Orig cd: S
State: CA Viol fy: 2010
Contamcd: 3100
Contamnm: Coliform (TCR)
Viol code: 25
Viol name: Monitoring, Repeat Major (TCR)
Rule code: 110
Rule name: TCR
Violmeasur: Not Reported Unitmeasur: Not Reported
State mcl: Not Reported Cmpbdt: 04/01/2010
Cmpedt: 04/30/2010

PWS ID: CA3010038
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: CITY OF SANTA ANA
SANTA ANA, CA 92703

Addressee / Facility: Not Reported

Facility Latitude: 33 44 44 Facility Longitude: 117 52 00
City Served: CITY OF SANTA A
Treatment Class: Treated Population: 293700

PWS currently has or had major violation(s) or enforcement: YES

VIOLATIONS INFORMATION:

Violation ID: 9308003 Source ID: Not Reported PWS Phone: Not Reported
Vio. beginning Date: 11/01/92 Vio. end Date: 11/30/92 Vio. Period: 001 Months
Num required Samples: Not Reported Number of Samples Taken: Not Reported
Analysis Result: Not Reported Maximum Contaminant Level: Not Reported
Analysis Method: Not Reported
Violation Type: MCL, Monthly (TCR)
Contaminant: COLIFORM (TCR)
Vio. Awareness Date: 113092

Violation ID: 9308002 Source ID: Not Reported PWS Phone: Not Reported
Vio. beginning Date: 11/01/92 Vio. end Date: 11/30/92 Vio. Period: 001 Months
Num required Samples: Not Reported Number of Samples Taken: Not Reported
Analysis Result: Not Reported Maximum Contaminant Level: Not Reported
Analysis Method: Not Reported
Violation Type: MCL, Monthly (TCR)
Contaminant: COLIFORM (TCR)
Vio. Awareness Date: 113092

ENFORCEMENT INFORMATION:

System Name:	CITY OF SANTA ANA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1992-01-01 - 2015-12-31		
Violation ID:	92V0001		
Enforcement Date:	1992-12-22	Enf. Action:	Fed FAO Issued
System Name:	CITY OF SANTA ANA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1992-01-01 - 2015-12-31		
Violation ID:	92V0001		
Enforcement Date:	1993-11-18	Enf. Action:	Fed No Additional Formal Action Needed
System Name:	CITY OF SANTA ANA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1992-01-01 - 2015-12-31		
Violation ID:	92V0001		
Enforcement Date:	1992-12-15	Enf. Action:	Fed Compliance Achieved
System Name:	CITY OF SANTA ANA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1992-01-01 - 2015-12-31		
Violation ID:	92V0001		
Enforcement Date:	1993-12-15	Enf. Action:	Fed Compliance Achieved

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B5
WNW **CA WELLS 6235**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	05S/10W-13B03 S	User ID:	TEE
FRDS Number:	3010038014	County:	Orange
District Number:	08	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	334500.0 1175200.0	Precision:	Undefined
Source Name:	WELL 07 - DESTROYED		
System Number:	3010038		
System Name:	City of Santa Ana		
Organization That Operates System:			
	220 S. DAISY AVE., BLDG. A SANTA ANA, CA 92703		
Pop Served:	293700	Connections:	43613
Area Served:	CITY OF SANTA ANA		

B6
WNW **CA WELLS 6236**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	05S/10W-13B07 S	User ID:	TEE
FRDS Number:	3010038015	County:	Orange
District Number:	08	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	334500.0 1175200.0	Precision:	Undefined
Source Name:	WELL 13		
System Number:	3010038		
System Name:	City of Santa Ana		
Organization That Operates System:			
	220 S. DAISY AVE., BLDG. A SANTA ANA, CA 92703		
Pop Served:	293700	Connections:	43613
Area Served:	CITY OF SANTA ANA		

B7
WNW **CA WELLS** **6238**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	05S/10W-13C01 S	User ID:	TEE
FRDS Number:	3010038017	County:	Orange
District Number:	08	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Destroyed
Source Lat/Long:	334500.0 1175200.0	Precision:	Undefined
Source Name:	WELL 15 - DESTROYED		
System Number:	3010038		
System Name:	City of Santa Ana		
Organization That Operates System:			
	220 S. DAISY AVE., BLDG. A SANTA ANA, CA 92703		
Pop Served:	293700	Connections:	43613
Area Served:	CITY OF SANTA ANA		

B8
WNW **CA WELLS** **6234**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	05S/10W-12L03 S	User ID:	TEE
FRDS Number:	3010038018	County:	Orange
District Number:	08	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	334500.0 1175200.0	Precision:	Undefined
Source Name:	WELL 16		
System Number:	3010038		
System Name:	City of Santa Ana		
Organization That Operates System:			
	220 S. DAISY AVE., BLDG. A SANTA ANA, CA 92703		
Pop Served:	293700	Connections:	43613
Area Served:	CITY OF SANTA ANA		

Sample Collected:	24-JAN-11	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-FEB-11	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-FEB-11	Findings:	21.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-FEB-11	Findings:	4950. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	15-MAR-11	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-MAY-11	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-MAY-11	Findings:	22.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-MAY-11	Findings:	5080. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	16-AUG-11	Findings:	1130. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	16-AUG-11	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	16-AUG-11	Findings:	237. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	16-AUG-11	Findings:	237. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	16-AUG-11	Findings:	0.35 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	16-AUG-11	Findings:	428. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	16-AUG-11	Findings:	124. MG/L
Chemical:	CALCIUM		
Sample Collected:	16-AUG-11	Findings:	28.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	16-AUG-11	Findings:	58.7 MG/L
Chemical:	SODIUM		
Sample Collected:	16-AUG-11	Findings:	2.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	16-AUG-11	Findings:	94. MG/L
Chemical:	CHLORIDE		
Sample Collected:	16-AUG-11	Findings:	0.29 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	16-AUG-11	Findings:	636. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-AUG-11	Findings:	22.6 MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	16-AUG-11	Findings:	0.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	16-AUG-11	Findings:	0.17 MG/L
Chemical:	BROMIDE		
Sample Collected:	16-AUG-11	Findings:	5110. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	20-SEP-11	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-11	Findings:	25.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-11	Findings:	5780. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	13-DEC-11	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JAN-12	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-12	Findings:	21.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-12	Findings:	4950. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	15-MAR-12	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAY-12	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-MAY-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-MAY-12	Findings:	5190. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	12-JUN-12	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JUL-12	Findings:	20. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	22.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-12	Findings:	5170. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-SEP-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	16-OCT-12	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-12	Findings:	23.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-NOV-12	Findings:	5220. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	15-NOV-12	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-DEC-12	Findings:	24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JAN-13	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-FEB-13	Findings:	21.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-FEB-13	Findings:	4870. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	19-FEB-13	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-MAR-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-APR-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-MAY-13	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-MAY-13	Findings:	23.51 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-MAY-13	Findings:	5310. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	11-JUN-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JUL-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-13	Findings:	22.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-AUG-13	Findings:	5180. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	22-AUG-13	Findings:	23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-SEP-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-OCT-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-NOV-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	26-NOV-13	Findings:	22.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-NOV-13	Findings:	5150. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	10-DEC-13	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-JAN-14	Findings:	22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-FEB-14	Findings:	. 22.58 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-FEB-14	Findings:	. 5100. UG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	18-FEB-14	Findings:	. 3.12 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	18-FEB-14	Findings:	. 1.41 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	18-FEB-14	Findings:	. 0.404 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	18-FEB-14	Findings:	. 2.81 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	18-FEB-14	Findings:	. 1.16 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	18-FEB-14	Findings:	. 1.11 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	18-FEB-14	Findings:	. 0.363 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	18-FEB-14	Findings:	. 0.2 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	18-FEB-14	Findings:	. 0.161 PCI/L
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Sample Collected:	18-FEB-14	Findings:	. 0.209 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	18-FEB-14	Findings:	. 0.322 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	25-FEB-14	Findings:	. 22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-MAR-14	Findings:	. 23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-APR-14	Findings:	. 25. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-MAY-14	Findings:	. 22.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-MAY-14	Findings:	. 5080. UG/L
Chemical:	NITRATE + NITRITE (AS N)		

Sample Collected:	20-MAY-14	Findings:	. 23. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUN-14	Findings:	. 24. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-JUL-14	Findings:	. 22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-AUG-14	Findings:	. 22. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-AUG-14	Findings:	. 986. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	20-AUG-14	Findings:	. 7.8
Chemical:	PH, LABORATORY		
Sample Collected:	20-AUG-14	Findings:	. 235. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	20-AUG-14	Findings:	. 287. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	20-AUG-14	Findings:	. 0.34 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	20-AUG-14	Findings:	. 394. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	20-AUG-14	Findings:	. 114. MG/L
Chemical:	CALCIUM		
Sample Collected:	20-AUG-14	Findings:	. 27. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	20-AUG-14	Findings:	. 51.9 MG/L
Chemical:	SODIUM		
Sample Collected:	20-AUG-14	Findings:	. 2.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	20-AUG-14	Findings:	. 91.2 MG/L
Chemical:	CHLORIDE		
Sample Collected:	20-AUG-14	Findings:	. 0.27 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	20-AUG-14	Findings:	. 104. UG/L
Chemical:	BARIUM		
Sample Collected:	20-AUG-14	Findings:	. 110. UG/L
Chemical:	BORON		
Sample Collected:	20-AUG-14	Findings:	. 622. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	20-AUG-14	Findings:	. 21.77 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-AUG-14	Findings:	. 0.22 MG/L
Chemical:	BROMIDE		
Sample Collected:	20-AUG-14	Findings:	. 4920. UG/L
Chemical:	NITRATE + NITRITE (AS N)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
9 **ENE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADW50000003052**

Latitude :	33.7532		
Longitude :	117.8426		
Site code:	337532N1178426W001	Casgem sta:	05S09W08G002S
Local well:	Not Reported	Casgem s 1:	Unknown
County id:	30		
Basin cd:	8-1	Basin desc:	Coastal Plain Of Orange County
Org unit n:	Southern Region Office	Site id:	CADW50000003052

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10 **SSE** **1/2 - 1 Mile** **Lower**	Site ID:	083000109T	**AQUIFLOW**	**37897**
	Groundwater Flow:	WSW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	130		
	Date:	10/28/1993		

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11 **ESE** **1/2 - 1 Mile** **Higher**			**FED USGS**	**USGS40000137756**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-334435117502601		
Monloc name:	005S009W17B001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.7431111
Longitude:	-117.8406667	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	126
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	1984	Welldepth:	1260
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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12 **NNE** **1/2 - 1 Mile** **Higher**	Site ID:	083002326T	**AQUIFLOW**	**66456**
	Groundwater Flow:	S		
	Shallow Water Depth:	58.9		
	Deep Water Depth:	62.82		
	Average Water Depth:	Not Reported		
	Date:	02/26/1999		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92701	8	0

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92701

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX G:

RESUMES OF ENVIRONMENTAL PROFESSIONALS

Mark Jirgal, PG
Senior Project Manager

[mjirgal@vertexeng.com]

Expertise:

Environmental Portfolio Reviews
Phase I ESAs
Phase II LSI
Litigation Support & Expert Testimony (Insurance Support)
Third-Party Impact Investigation
Groundwater & Soil Characterization
Litigation Support & Expert Testimony (Environmental)
Site Characterization
Vapor Intrusion Investigations & Remediation

Education/Training:

B.S., Geology, University of Maryland
B.S., Resource Development, University of Maryland

Biography:

Mr. Jirgal is a Senior Project Manager for VERTEX located in Irvine, California. He has 25 years experience in the Environmental Consulting industry conducting and directing more than 500 Phase I ESAs, Phase II site investigations, and remediation projects throughout the United States. Mr. Jirgal has performed or directed assessment activities on properties ranging in complexity from vacant land to electrical power generating facilities. He has also provided litigation support for cases involving comingled plumes, PRP identification and remediation cost allocation for properties including commercial office, aerospace, waste oil re-refining and oil packaging facilities.

Mr. Jirgal has proven project management experience and has overseen subsurface investigations utilizing a wide variety of investiative techniques including hollow-stem auger, dual-tube percussion, mud-rotary, direct-push, cone-penetrometer and sonic drilling techniques. He has also designed and conducted indoor air and soil gas surveys.

Licenses/Certifications:

Professional Geologist (PG), California, 6611
10 Hour OSHA Training
40 Hour OSHA Training

Stephen McCarthy
Vice President, Due Diligence

[smccarthy@vertexeng.com / 781-952-6000]

Highlights:

Project Management Experience Nationwide
Nationwide Due Diligence Experience

Expertise:

Asbestos
Mold
Compliance Audits
PCA/PCS
Environmental Health & Safety
Remediation & Construction Management

Education/Training:

B.A., History, Providence College, 1986

Biography:

Mr. McCarthy has over 25 years of experience in Environmental Consulting. He has routinely managed several hundred environmental assessment due diligence projects per year for financial, commercial and institutional clients. These projects included Phase I and Phase II Environmental Site Assessments, asbestos surveys and abatement, mold assessments, removal of underground storage tanks and site investigations.

As Vice President, Mr. McCarthy is responsible for project and staff management, document review, quality control and client management. He is responsible for sales, client interaction, proposal preparation and quality assurance of product. In addition, Mr. McCarthy is also responsible for managing the set up and timely completion of due diligence services including Phase I ESAs, planning and management of Phase II subsurface investigations and remediation projects. Specifically this work includes observation of properties and operations, historic site research, delineation of contaminated media, coordinating UST removals, oversight of excavation activities, development of remediation strategies and serving as the liaison between clients, contractors and regulatory agencies.

Licenses/Certifications:

OSHA 40 Hour HAZWOPER

ATTACHMENT G

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